APPENDIX A

Air Quality and Greenhouse Gas Emissions
Background and Modeling Data

Appendix A

Canoga Park High School Emissions

1. **Air Quality and Greenhouse Gas Regulatory and Contextual Information**
2. **CalEEMod Detailed Reports for Phase I and Phase II Construction Emissions Modeling**
3. **Development Area Breakdowns for CalEEMod Modeling**

1. Air Quality and Greenhouse Gas Regulatory and Contextual Information

Regulatory Settings

Air Quality

Federal

Clean Air Act (CAA)

The Clean Air Act regulates sources of air emissions within the United States. The CAA requires U.S. Environmental Protection Agency (EPA) to set National Ambient Air Quality Standards (NAAQS) for pollutants that are common in outdoor air, considered harmful to public health and the environment, and that come from numerous and diverse sources. The six criteria pollutants regulated by the EPA through the NAAQS are: CO, NO2, O3, particulate matter (PM-10, PM-2.5), SO2, and Pb. The EPA designates areas in the nation as in attainment, nonattainment, or maintenance in regard to the NAAQS for each criteria pollutant. For nonattainment or maintenance areas states are tasked with the development of State Implementation Plans (SIPs) to bring the area into attainment. Areas must be brought into attainment by a certain date for each pollutant. This attainment date is set by the EPA according to the severity of nonattainment. Los Angeles County is currently in nonattainment for 8-Hour Ozone and PM 2.5 standards (and Pb for one small area not relevant to the Project). The EPA also establishes vehicle emission standards for vehicles sold in states other than California, which maintains stricter vehicle emission standards than the EPA.

State

California Clean Air Act (CCAA)

The California Clean Air Act (CCAA) was adopted in 1988 to require state air districts to meet California Ambient Air Quality Standards (CAAQS) developed by the California Air Resources Board (CARB), which is responsible for administering the CCAA. The CAAQS meet or exceed the NAAQS and in some cases use calculation methods that are different from the NAAQS. CARB oversees the functions of local air pollution control districts and air quality management districts, which in turn administer air quality activities at the

regional and county levels as part of the state's SIPs. The CCAA requires CARB to designate areas within California as either attainment or nonattainment for each criteria pollutant based on whether the CAAQS have been achieved. Under state standards, Los Angeles County is designated as a nonattainment area for O3, PM-10, and PM-2.5. Exceedances that are affected by highly irregular or infrequent events are not considered violations of a state standard and are not used as a basis for designating areas as nonattainment.

Ambient Air Quality Standards

National and state ambient air quality standards shown in **Table 1, Ambient Air Quality Standards,**[1] are the air quality levels that are considered safe, with an adequate margin of safety, to protect the public health and welfare of "sensitive receptors," which include the elderly, young children, the acutely and chronically ill (e.g., those with cardio-respiratory disease, including asthma), and persons engaged in strenuous work or exercise. Healthy adults can tolerate occasional exposure to air pollutant concentrations considerably above these minimum standards before adverse effects are observed.

Toxic Air Contaminants

Toxic air contaminants (TACs) are airborne pollutants identified by CARB which may cause or contribute to an increase in deaths or in serious illness, or which may pose a present or potential hazard to human health. TACs are not criteria pollutants and are regulated separately. The USEPA regulates TACs through technology-based requirements which are implemented by state & local agencies. California regulates TACs through the air toxics program (H&SC §§ 39660 et seq.) and the Air Toxics "Hot Spots" Information and Assessment Act (H&SC §§ 44300 et seq.). Sources of TACs include some industrial and commercial activities, and mobile emissions from cars and trucks, particularly diesel particulate matter (DPM). The "Hot Spots" Act applies to stationary sources and requires operators of specified facilities (those that produce TACs) to submit emission inventories to the AQMD. Those deemed as high priority must prepare a health risk assessment which may result in notification to the surrounding population and development of a risk reduction plan. There are also "industry-wide" inventories and assessed risks of small business facilities with emissions that are easily characterized such as gas stations, small auto body shops, small dry cleaners, plating shops, and fiberglass product manufacturers. This information can be used when considering siting such a facility near a sensitive receptor, or vice versa.

California Code of Regulations

The California Code of Regulations (CCR) is the official compilation and publication of state regulations. Regulations pertaining to air quality are Section 2485 of Title 13 which states the idling of all diesel-fueled commercial vehicles (weighing over 10,000 pounds) during construction shall be limited to five minutes at any location; and Section 93115 of Title 17 which states that operations of any stationary, diesel-fueled, compression-ignition engines shall meet specified fuel and fuel additive requirements and emissions standards.

[1] California Air Resources Board. California and National Ambient Air Quality Standards. Available at: https://ww2.arb.ca.gov/sites/default/files/2020-07/aaqs2.pdf.

Table 1
Ambient Air Quality Standards

Ambient Air Quality Standards						
Pollutant	**Averaging Time**	**California Standards** [1]		**National Standards** [2]		
		Concentration [3]	**Method** [4]	**Primary** [3,5]	**Secondary** [3,6]	**Method** [7]
Ozone (O_3)[8]	1 Hour	0.09 ppm (180 µg/m^3)	Ultraviolet Photometry	—	Same as Primary Standard	Ultraviolet Photometry
	8 Hour	0.070 ppm (137 µg/m^3)		0.070 ppm (137 µg/m^3)		
Respirable Particulate Matter (PM10)[9]	24 Hour	50 µg/m^3	Gravimetric or Beta Attenuation	150 µg/m^3	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	20 µg/m^3		—		
Fine Particulate Matter (PM2.5)[9]	24 Hour	—	—	35 µg/m^3	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	12 µg/m^3	Gravimetric or Beta Attenuation	12.0 µg/m^3	15 µg/m^3	
Carbon Monoxide (CO)	1 Hour	20 ppm (23 mg/m^3)	Non-Dispersive Infrared Photometry (NDIR)	35 ppm (40 mg/m^3)	—	Non-Dispersive Infrared Photometry (NDIR)
	8 Hour	9.0 ppm (10 mg/m^3)		9 ppm (10 mg/m^3)	—	
	8 Hour (Lake Tahoe)	6 ppm (7 mg/m^3)		—	—	
Nitrogen Dioxide (NO_2)[10]	1 Hour	0.18 ppm (339 µg/m^3)	Gas Phase Chemiluminescence	100 ppb (188 µg/m^3)	—	Gas Phase Chemiluminescence
	Annual Arithmetic Mean	0.030 ppm (57 µg/m^3)		0.053 ppm (100 µg/m^3)	Same as Primary Standard	
Sulfur Dioxide (SO_2)[11]	1 Hour	0.25 ppm (655 µg/m^3)	Ultraviolet Fluorescence	75 ppb (196 µg/m^3)	—	Ultraviolet Flourescence; Spectrophotometry (Pararosaniline Method)
	3 Hour	—		—	0.5 ppm (1300 µg/m^3)	
	24 Hour	0.04 ppm (105 µg/m^3)		0.14 ppm (for certain areas)[11]	—	
	Annual Arithmetic Mean	—		0.030 ppm (for certain areas)[11]	—	
Lead[12,13]	30 Day Average	1.5 µg/m^3	Atomic Absorption	—	—	High Volume Sampler and Atomic Absorption
	Calendar Quarter	—		1.5 µg/m^3 (for certain areas)[12]	Same as Primary Standard	
	Rolling 3-Month Average	—		0.15 µg/m^3		
Visibility Reducing Particles[14]	8 Hour	See footnote 14	Beta Attenuation and Transmittance through Filter Tape	**No National Standards**		
Sulfates	24 Hour	25 µg/m^3	Ion Chromatography			
Hydrogen Sulfide	1 Hour	0.03 ppm (42 µg/m^3)	Ultraviolet Fluorescence			
Vinyl Chloride[12]	24 Hour	0.01 ppm (26 µg/m^3)	Gas Chromatography			

See footnotes on next page

1. California standards for ozone, carbon monoxide (except 8-hour Lake Tahoe), sulfur dioxide (1 and 24 hour), nitrogen dioxide, and particulate matter (PM10, PM2.5, and visibility reducing particles), are values that are not to be exceeded. All others are not to be equaled or exceeded. California ambient air quality standards are listed in the Table of Standards in Section 70200 of Title 17 of the California Code of Regulations.

2. National standards (other than ozone, particulate matter, and those based on annual arithmetic mean) are not to be exceeded more than once a year. The ozone standard is attained when the fourth highest 8-hour concentration measured at each site in a year, averaged over three years, is equal to or less than the standard. For PM10, the 24 hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150 $\mu g/m^3$ is equal to or less than one. For PM2.5, the 24 hour standard is attained when 98 percent of the daily concentrations, averaged over three years, are equal to or less than the standard. Contact the U.S. EPA for further clarification and current national policies.

3. Concentration expressed first in units in which it was promulgated. Equivalent units given in parentheses are based upon a reference temperature of 25°C and a reference pressure of 760 torr. Most measurements of air quality are to be corrected to a reference temperature of 25°C and a reference pressure of 760 torr; ppm in this table refers to ppm by volume, or micromoles of pollutant per mole of gas.

4. Any equivalent measurement method which can be shown to the satisfaction of the ARB to give equivalent results at or near the level of the air quality standard may be used.

5. National Primary Standards: The levels of air quality necessary, with an adequate margin of safety to protect the public health.

6. National Secondary Standards: The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.

7. Reference method as described by the U.S. EPA. An “equivalent method” of measurement may be used but must have a “consistent relationship to the reference method” and must be approved by the U.S. EPA.

8. On October 1, 2015, the national 8-hour ozone primary and secondary standards were lowered from 0.075 to 0.070 ppm.

9. On December 14, 2012, the national annual PM2.5 primary standard was lowered from 15 $\mu g/m^3$ to 12.0 $\mu g/m^3$. The existing national 24-hour PM2.5 standards (primary and secondary) were retained at 35 $\mu g/m^3$, as was the annual secondary standard of 15 $\mu g/m^3$. The existing 24-hour PM10 standards (primary and secondary) of 150 $\mu g/m^3$ also were retained. The form of the annual primary and secondary standards is the annual mean, averaged over 3 years.

10. To attain the 1-hour national standard, the 3-year average of the annual 98th percentile of the 1-hour daily maximum concentrations at each site must not exceed 100 ppb. Note that the national 1-hour standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the national 1-hour standard to the California standards the units can be converted from ppb to ppm. In this case, the national standard of 100 ppb is identical to 0.100 ppm.

11. On June 2, 2010, a new 1-hour SO_2 standard was established and the existing 24-hour and annual primary standards were revoked. To attain the 1-hour national standard, the 3-year average of the annual 99th percentile of the 1-hour daily maximum concentrations at each site must not exceed 75 ppb. The 1971 SO_2 national standards (24-hour and annual) remain in effect until one year after an area is designated for the 2010 standard, except that in areas designated nonattainment for the 1971 standards, the 1971 standards remain in effect until implementation plans to attain or maintain the 2010 standards are approved.

    Note that the 1-hour national standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the 1-hour national standard to the California standard the units can be converted to ppm. In this case, the national standard of 75 ppb is identical to 0.075 ppm.

12. The ARB has identified lead and vinyl chloride as 'toxic air contaminants' with no threshold level of exposure for adverse health effects determined. These actions allow for the implementation of control measures at levels below the ambient concentrations specified for these pollutants.

13. The national standard for lead was revised on October 15, 2008 to a rolling 3-month average. The 1978 lead standard (1.5 $\mu g/m^3$ as a quarterly average) remains in effect until one year after an area is designated for the 2008 standard, except that in areas designated nonattainment for the 1978 standard, the 1978 standard remains in effect until implementation plans to attain or maintain the 2008 standard are approved.

14. In 1989, the ARB converted both the general statewide 10-mile visibility standard and the Lake Tahoe 30-mile visibility standard to instrumental equivalents, which are "extinction of 0.23 per kilometer" and "extinction of 0.07 per kilometer" for the statewide and Lake Tahoe Air Basin standards, respectively.

Regional

The air basins are geographic areas that share common airsheds. Administratively, cities and counties either fall under the authority of a county air pollution control district (APCD) or a multi-county air quality management district (AQMD). These local districts have the responsibility of administering and enforcing the CCAA and controlling air pollution emissions from stationary sources within their jurisdictions. The air quality plans developed by these bodies are part of California's SIPs. The project site falls within the boundaries of the SCAQMD which is responsible for developing the regional Air Quality Management Plan (AQMP). The 2022 AQMP is a regional blueprint for achieving the CAAQS, and it represents a comprehensive analysis of emissions, meteorology, atmospheric chemistry, regional growth projections, and the impact of existing control measures. The Southern California Association of Governments (SCAG) develops portions of the AQMP that address transportation control measures, land use, and growth projections within districts that have not met air quality standards. The 2022 AQMP relies on the growth estimates and transportation control measures found in the SCAG 2020-2045 Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS). The land use and transportation control measures of the RTP/SCS are a component of the SIP used to reach attainment.

The SCAQMD has also promulgated rules for the regulation of air pollution sources within the air basin. These include:

- Rule 402 – Nuisance: This rule states that a person shall not discharge from any source whatsoever such quantities of air contaminants or other material, which cause injury, detriment, nuisance, or annoyance to any considerable number of persons or to the public, or which endanger the comfort, repose, health or safety of any such persons or the public, or which cause, or have a natural tendency to cause, injury or damage to business or property.
- Rule 403 – Fugitive Dust: This rule requires projects to prevent, reduce or mitigate fugitive dust emissions from a site. Rule 403 restricts visible fugitive dust to the project property line, restricts the net PM_{10} emissions to less than 50 micrograms per cubic meter ($\mu g/m^3$), and restricts the tracking out of bulk materials onto public roads. Additionally, projects must utilize one or more of the best available control measures (identified in the tables within the rule). Best available control measures may include adding freeboard to haul vehicles, covering loose material on haul vehicles, watering, using chemical stabilizers, and/or ceasing all activities. Finally, a contingency plan may be required if so determined by the USEPA.
- Rule 1113 – Architectural Coatings: This rule requires manufacturers, distributors, and end users of architectural and industrial maintenance coatings to reduce VOC emissions from the use of these coatings, primarily by placing limits on the VOC content of various coating categories.
- Rule 1403 – Asbestos Emissions from Demolition/Renovation Activities: This rule requires owners and operators of any demolition or renovation activity and the associated disturbance of asbestos-containing materials, any asbestos storage facility, or any active waste disposal site to implement work practice requirements to limit asbestos emissions from building demolition and renovation activities, including the removal and associated disturbance of asbestos-containing materials.

SCAQMD Emissions Thresholds

The SCAQMD's 2022 AQMP is the region's applicable air quality plan. The AQMP is partly implemented through SCAGs 2020-2045 RTP/SCS as the land use assumptions underlying the AQMP are derived from the RTP/SCS. However, compliance with the AQMP is primarily measures through project-level significance thresholds the SCAQMD has established. These significance thresholds are used to assess regional and localized impacts of project-related criteria pollutant emissions. Non-exceedance of these thresholds is used to determine consistency with the AQMP.

Local

Local governments are responsible for land use planning and review, mitigation of any air quality impacts that result from development projects, development and maintenance of local transportation infrastructure, and development and implementation of local air quality programs, if any. The Project is exempt from local land use regulations and as such is subject to applicable state and regional regulations in this regard.

Greenhouse Gasses

Federal

Clean Air Act

The U.S. Environmental Protection Agency (EPA) is responsible for implementing federal policy to address GHGs. In Massachusetts v. EPA (549 US 497 [2007]) the U.S. Supreme Court found that CO_2 and other greenhouse gases (GHGs) are pollutants under the Clean Air Act (CAA) and could be regulated by the EPA. The Court did not require the EPA to regulate GHG emissions, but indicated the agency must decide whether GHGs cause or contribute to air pollution that is reasonably anticipated to endanger public health or welfare. On December 7, 2009 the EPA administrator made two finding regarding GHGs under Section 202(a) of the CAA:

> Endangerment Finding: The Administrator finds that the current and projected concentrations of the six key well-mixed greenhouse gases (CO2, methane [CH_4], nitrous oxide [N_2O], hydrofluorocarbons [HFCs], perfluorocarbons [PFCs], and sulfur hexafluoride [SF_6]) in the atmosphere threaten the public health and welfare of current and future generations.
>
> Cause or Contribute Finding: The Administrator finds that the combined emissions of these well-mixed greenhouse gases from new motor vehicles and new motor vehicle engines contribute to the greenhouse gas pollution that threatens public health and welfare.

These findings did not impose any requirements; however, the action was a prerequisite for implementing GHG emissions standards for vehicles and other sectors.[2] Subsequently these findings were used to modify existing Corporate Average Fuel Economy (CAFE) standards.

[2] United States Environmental Protection Agency, Endangerment and Cause or Contribute Findings for Greenhouse Gases Under Section 202(a) of the Clean Air Act, Accessed March 13, 2023 at: https://www.epa.gov/climate-change/endangerment-and-cause-or-contribute-findings-greenhouse-gases-under-section-202a.

In March 2020, the U.S. Department of Transportation (USDOT) and the EPA issued the Safer Affordable Fuel-Efficient (SAFE) Vehicles Rule, which further amended existing CAFE standards and tailpipe CO2 emissions standards for passenger cars and light trucks and established new standards covering model years 2021 through 2026.

Corporate Average Fuel Economy (CAFE) Standards

First enacted by Congress in 1975, the purpose of the Corporate Average Fuel Economy (CAFE) standards was to reduce energy consumption by increasing the fuel economy of passenger cars and light trucks. On April 1, 2010, the National Highway Traffic Safety Administration (NHTSA) and EPA issued a joint final rule establishing a new national program to regulate passenger cars and light trucks in order to improve fuel economy and reduce GHG emissions. In 2012, NHTSA established final passenger car and light truck CAFE standards for model years 2017-2021, which the agency projected would require an average combined fleet-wide fuel economy of 40.3-41.0 mpg in model year 2021. As part of the same rulemaking action the EPA issued GHG standards which were projected to require an average of 163 grams/mile of CO_2 in model year 2025. In March 2022 the NHTSA finalized CAFE Standards for model years 2024-2026 which require an industry-wide fleet average of approximately 49 mpg for passenger cars and light trucks in model year 2026, by increasing fuel efficiency by 8% annually in 2024 and 2025, and 10% in 2026. Relative to model year 2021 average standards are increased nearly 10 miles per gallon.

Construction Equipment Emission Standards

The EPA sets emission standards for construction equipment. Tier 1 standards were adopted in 1994 for new nonroad diesel engines over 50 hp, to be phased-in from 1996 to 2000. In 1998 Tier 1 standards were then applied to all equipment under 350 hp. Tier 2 and Tier 3 standards for all equipment were then introduced with phase-in schedules from 2000 to 2008. The Tier 1-3 standards are met through advanced engine design, meaning emission reductions generally cannot be obtained through the use of exhaust gas aftertreatment.

In 2004 EPA signed the final rule introducing Tier 4 emission standards, which are phased-in over the period of 2008-2015. The Tier 4 standards require that emissions of PM and NOx be further reduced from existing standards by about 90%. Tier 4 emission reductions can be achieved through the use of control technologies, including exhaust gas aftertreatment. Tier 4 standards also included reductions in sulfur content in nonroad diesel fuels, which was not present in previous standards.

These standards cover mobile nonroad diesel engines of all sizes, the sort of equipment used in construction, agricultural and industrial uses. Tier 1 standards were phased-in from 1996 to 2000, Tier 2 from 2001 to 2006, and Tier 3 standards were phased-in from 2006 to 2008. Equipment must meet the standards in place when they were built. However, rules governing the replacement or modification of equipment are geared toward retiring older equipment.

<u>State</u>

Section 38505(g) of the California Health and Safety Code defines GHGs to include the following compounds: carbon dioxide (CO_2), methane (CH_4), nitrous oxide (N_2O), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), sulfur hexafluoride (SF_6), and nitrogen trifluoride (NF_3). Two important ways in which these gases differ from each other are their ability to absorb energy (their "radiative efficiency"), and how long they stay in the atmosphere (also known as their "lifetime"). The ability of equivalent masses of each GHG to trap heat in

the atmosphere is measured by its global warming potential (GWP).[3] CO_2 is the reference gas used for GWP, and it has a GWP of one. The GWP of other GHGs are determined based on their heat trapping potential relative to CO_2. Because of this, GHG emissions are commonly expressed in terms of carbon dioxide equivalents (CO_2e), where CO_2e is calculated by the quantity of each GHG multiplied by its associated GWP factor. Below is a description of each GHG emission as described by the California Climate Action Registry (CCAR) General Reporting Protocol.[4]

- Carbon Dioxide (CO_2): Consisting of a single carbon and two oxygen atoms, CO_2 is the most common of the six primary GHG emissions, and it provides the reference point for the GWP of other gases. Thus, the GWP of CO_2 is equal to one.

- Nitrous Oxide (N_2O): Consisting of two nitrogen atoms and a single oxygen atom, N_2O possesses a GWP of 310 and is typically generated as a result of soil cultivation practices, particularly the use of commercial and organic fertilizers, fossil fuel combustion, nitric acid production, and biomass burning.

- Methane (CH4): Consisting of a single carbon atom and four hydrogen atoms, CH_4 possesses a GWP of 21 and is produced through the anaerobic decomposition of waste in landfills, animal digestion, decomposition of animal wastes, production and distribution of natural gas and petroleum, coal production, and incomplete fossil fuel combustion.

- Hydrofluorocarbons (HFCs): Primarily used as refrigerants, HFCs consist of a class of gases containing hydrogen, fluorine, and carbon. They possess a range of high and very high GWP values from 120 to 12,000.

- Perfluorocarbons (PFCs): PFCs consist of a class of gases containing carbon and fluorine and are originally introduced as alternatives to ozone depleting substances. They are typically emitted as by-products of industrial and manufacturing processes and possess GWPs ranging from 5,700 to 11,900.

- Sulfur Hexafluoride (SF_6): SF_6 consists of a single sulfur atom and six fluoride atoms, possessing a very high GWP of 23,900. SF_6 is primarily used in electrical transmission and distribution systems.

Senate Bill 1078 and Senate Bill 107, The California Renewables Portfolio Standard

The state enacted Senate Bill (SB) 1078 in 2002, establishing the Renewable Portfolio Standards (RPS) program and requiring retail sellers of electricity, including electrical corporations, community choice aggregators, and electric service providers, to purchase a specified minimum percentage of electricity generated by eligible renewable energy resources such as wind, solar, geothermal, small hydroelectric, biomass, anaerobic digestion, and landfill gas. The legislation set a target by which 20 percent of the state's electricity would be generated by renewable sources. Senate Bill 1078 requires each electrical corporation to increase its total procurement of eligible renewable energy resources by at least one percent per year so that 20 percent of its retail sales are procured from eligible renewable energy resources. If an electrical corporation fails to meet an annual target, it would be required to procure additional eligible renewable resources in subsequent years to compensate for the

[3] U.S. Environmental Protection Agency, Greenhouse Gas Emissions Understanding Global Warming Potentials, Accessed on March 17, 2023 at: https://www.epa.gov/ghgemissions/understanding-global-warming-potentials.

[4] California Climate Action Registry, General Reporting Protocol Version 3.1, January 2009.

shortfall. The state enacted SB 107 in 2006, which modified the RPS to require that at least 20 percent of electricity retail sales be served by renewable energy resources by 2010.[5]

Assembly Bill 1493, The Pavley Standards

In July 2002, the state enacted Assembly Bill (AB) 1493, which directed the CARB to develop and adopt regulations that achieve the maximum feasible reduction of GHGs emitted by passenger vehicles and light-duty trucks, beginning with model year 2009. In September 2004, pursuant to this directive, the CARB approved regulations to reduce GHG emissions from new motor vehicles beginning with the 2009 model year. These regulations created what are referred to as the Pavley Standards. In September 2009, the CARB adopted amendments to the Pavley Standards to reduce GHG emissions from new motor vehicles through the 2016 model year. These regulations created what are referred to as the Pavley II Standards. It is expected that the Pavley regulations will reduce GHG emissions from California passenger vehicles by about 34 percent below 2016 levels by 2025, as well as improve fuel efficiency and reduce motorists' costs.[6]

Executive Order S-3-05

Former Governor Schwarzenegger's 2005 Executive Order S-3-05 included the following GHG emission reduction targets: by 2010, reduce GHG emissions to 2000 levels; by 2020, reduce GHG emissions to 1990 levels; and by 2050, reduce GHG emissions to 80 percent below 1990 levels. To meet the targets, the Governor directed several state agencies to cooperate in the development of a CAP. The Secretary of the California Environmental Protection Agency (Cal EPA) leads the Climate Action Team (CAT), whose goal is to implement global warming emission reduction programs identified in the CAP and to report biannually on the progress made toward meeting the emission reduction targets established in the Executive Order.

Assembly Bill 32, The Global Warming Solutions Act of 2006

California Assembly Bill 32 (AB 32), the California Global Warming Solutions Act of 2006, provided authorization to CARB to develop regulations and market mechanisms to reach the GHG emissions goals established by Executive Order S-3-05 in 2005. Pursuant to AB 32, CARB identified 427 million MT CO_2e as the total statewide aggregated 1990 GHG emissions level, which served as the 2020 emissions limit. The state achieved its 2020 GHG emissions reductions target of returning to 1990 levels in 2016.

Executive Order B-30-15

In 2015, Governor Brown issued Executive Order B-30-15, which created an interim statewide GHG emission reduction target to reduce GHG emissions to 40 percent below 1990 levels by 2030, replacing the 2005 target.

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5 California Legislative Information, SB 107 (Simitian) Renewable energy: Public Interest Energy Research, Demonstration, and Development Program. Accessed at: https://leginfo.legislature.ca.gov/faces/billTextClient.xhtml?bill_id=200520060SB107.

6 California Air Resources Board (ARB), California Air Resources Board Approves Advances Clean Car Rules, Accessed on November 8, 2021 at: https://ww2.arb.ca.gov/news/california-air-resources-board-approves-advanced-clean-car-rules.

Senate Bill 32, California Global Warming Solutions Act of 2016

California Senate Bill 32 (SB 32), the California Global Warming Solutions Act of 2016: emissions limit, was passed in 2016 as a follow-up to AB 32, authorizing CARB to create regulations in pursuit of the GHG emissions target set in the 2015 executive order.

Executive Order B-55-18

Executive Order B-55-18, issued by Governor Brown in 2018, established a statewide policy goal to achieve carbon neutrality as soon as possible and no later than 2045, and to achieve and maintain net negative emissions thereafter. The Order states that this new goal is in addition to the prior statewide targets for reduction of GHG emissions.

Assembly Bill 1279, California Climate Crisis Act

Assembly Bill 1279, known as the California Climate Crisis Act, was enacted September 16, 2022. It codifies previous executive orders by requiring California to achieve net zero greenhouse gas emissions as soon as possible, but no later than 2045, and to achieve and maintain net negative GHG emissions thereafter. It also requires that statewide anthropogenic GHG emissions be reduced to at least 85 percent below 1990 levels by 2045.

Climate Change Scoping Plan

As required by AB 32, CARB was tasked with preparing a scoping plan that identified strategies for reducing GHG emissions. The first Climate Change Scoping Plan was adopted in December 2008 and gets updated every 5-years. So far there have been three updates on the Scoping Plan. Each update builds upon the existing strategies and recommendations from the previous plan and identifies opportunities to leverage existing and new funds.

The 2022 Climate Change Scoping Plan was finalized in December 2022 and is focused on the goal of obtaining carbon neutrality by 2045 or earlier. The 2022 Scoping Plan specifically:[7]

- Identifies a path to reduce GHG emissions by 85 percent below 1990 emissions no later than 2045.
- Identifies technologically feasible, cost-effective means to achieve carbon neutrality by 2045.
- Focuses on strategies for reducing California's dependency on petroleum to provide consumers with clean energy options that address climate change, improve air quality, and support economic growth and clean sector jobs.
- Integrates equity and protecting California's most impacted communities as a driving principle throughout the document.
- Incorporates the contribution of natural and working lands to the state's GHG emissions, as well as its role in achieving carbon neutrality.

[7] California Air Resources Board, 2022 Scoping Plan for Achieving Carbon Neutrality, November 16, 2022.

- Relies on the most up to date science, including the need to deploy all viable tools to address the existential threat that climate change presents, including carbon capture and sequestration as well a direct air capture.

GHG emission targets set in the Scoping Plan are attained by setting statewide control measures, such as the Pavley standards or Title 24 standards, which address specific sources of emissions, and by addressing land use on a regional level through regional transportation plans and sustainable communities strategies developed by metropolitan planning organizations.

Senate Bill 375, the Sustainable Communities and Climate Protection Act

Senate Bill 375, the Sustainable Communities and Climate Protection Act, passed in 2008, requires CARB to develop and set regional targets for greenhouse gas (GHG) emission reductions from passenger vehicles. Metropolitan planning organizations (MPOs) must prepare a Sustainable Communities Strategy (SCS) that will reduce GHG emissions to achieve these regional targets, if feasible to do so. The SCS is a component to the Regional Transportation Plan (RTP), which regulates transportation financing in each region. The RTP and SCS must complement each other and accommodate the Regional Housing Needs Allocation (RHNA). The bill modified the RHNA requirements to align with production of the RTP/SCS. The purpose of this coordination is for each MPO to arrive at a mix of transportation and land use strategies that will direct the region's growth in such a way that vehicle miles travelled (VMT) will be reduced, thus reducing emissions from car trips which are the largest source of emissions.

The Southern California Association of Governments (SCAG) is the MPO for the County of Los Angeles (along with the Counties of Imperial, San Bernardino, Riverside, Orange, and Ventura). The 2020-2045 Regional Transportation Plan/Sustainable Communities Strategy (2020-2045 RTP/SCS aka Connect SoCal) is the most recent RTP/SC adopted by SCAG. The 2020-2045 RTP/SCS is a long-range visioning plan that examines existing land use and transportation conditions throughout the SCAG region and forecasts how the plan will meet the region's transportation needs between 2020 and 2045, as well as achieve CARB's GHG emissions reduction targets. The 2020-2045 RTP/SCS was adopted on September 3, 2020 by SCAG's Regional Council, and on October 30, 2020, CARB officially determined that the 2020-2045 RTP/SCS would achieve CARB's 2035 GHG emission reduction target of 19 percent below 2005 per capita emissions levels.

Senate Bill X1-2

Established in 2002 under SB 1078 and accelerated in 2006 under SB 107 and again in 2011 under SB X1-2, California's Renewable Portfolio Standards (RPS) requires retail sellers of electric services to increase procurement from eligible renewable energy resources to 33 percent of total retail sales by 2020. The 33 percent standard is consistent with the RPS goal established in the Scoping Plan. These mandates apply directly to investor-owned utilities. Based on the investor-owned utilities (IOU) Annual RPS Compliance Filings in August 2017, the three largest IOUs in the state surpassed this requirement.[8]

Title 24 Building Energy Efficiency Standards

Title 24 is also known as the Building Standards Code and contains 12 parts, including Part 6 which is known as the Building Energy Efficiency Standards or Energy Code. The Standards contain energy and water efficiency

[8] California Public Utilities Commission, 2017 Annual Report: Renewable Portfolio Standard, November 2017 (at Table 1).

requirements for newly constructed buildings, additions to existing buildings, and alterations to existing buildings.

The On August 11, 2021, the CEC adopted the 2022 Energy Code. In December of 2022 it was approved by the California Building Standards Commission for inclusion into the California Building Standards Code. The 2022 Energy Code establishes electric-ready requirements for new homes, expands solar PV and battery storage standards, strengthens ventilation standards, and more. Buildings whose permit applications are applied for on or after January 1, 2023, must comply with the 2022 Energy Code. Compliance with the standards is confirmed by the local agency during the plan check process prior to permitting.

California Green Building Standards Code

The California Green Building Standards Code is Part 11 of the Building Standards Code, Title 24, commonly referred to as the California Green Building Code (CALGreen). The 2022 CALGreen Code took effect on January 1, 2023 and includes both voluntary and mandatory energy efficiency standards for commercial and residential buildings. The 2022 code differs from the 2019 code by offering new voluntary prerequisites such as battery storage system controls and heat pump space, and water heating, to encourage building electrification. The voluntary provisions of the CALGreen Code generally forecast provisions that are likely to become mandatory as part of the next updated Energy Code, which will take effect in 2025. As part of Title 24, applicable CALGreen Code requirements are enforced through the building permit process.

Local

The Project is exempt from local land use regulations and as such is subject to applicable state and regional regulations in this regard. The provisions of AB 32, SB 32, and SB 375 are implemented at the regional level through the SCAG 2020-2045 RTP/SCS, which is the applicable plan to the region for the reduction of GHGs.

Existing Conditions

Air Quality/Greenhouse Gasses

Meteorological Setting

The Project is located within the South Coast Air Basin which is bounded by the Pacific Ocean to the west, the San Gabriel, San Bernardino, and San Jacinto Mountains to the north and east, and San Diego County to the south.

In addition to being a metropolitan area with a high level of human activity, the topography and climate of Southern California combine to produce unhealthful air quality in the Air Basin. Low temperature inversions, light winds, shallow vertical mixing, and extensive sunlight, in combination with topographical features such as adjacent mountain ranges that hinder dispersion of air pollutants, can result in degraded air quality within the Air Basin.

Existing Ambient Air Quality

Existing levels of ambient air quality and historical trends and projections in the proposed project area are documented from measurements made by the South Coast Air Quality Management District (SCAQMD), which is the agency that is responsible for regulating stationary sources of emissions in the air basin. The project

site is nearest to the West San Fernando Valley monitoring station (AQS ID 060371201), therefore, monitoring data recorded at Station 060371201 for regional air pollutants, such as O3, carbon monoxide (CO), nitrogen oxides (NOx), and 10-micron diameter or less particulate matter (PM-10 and PM-2.5) are used to represent the air quality in the proposed project area. **Table 2, Project Area Air Quality Monitoring Summary** provides data from this monitoring station for the previous five years (2018-2022) for which this data is available from the SCAQMD website.[9]

Table 2
Project Area Air Quality Monitoring Summary

Pollutant/Standard	2018	2019	2020	2021	2022
Ozone (O_3)					
Number of Days Standards Exceeded					
1-Hour > 0.09 ppm (S)	14	1	14	4	7
8-Hour > 0.07 ppm (S)[1]	49	6	49	33	24
Maximum Observed Concentration					
Max. 1-Hour Conc. (ppm)	0.120	0.101	0.142	0.110	0.110
Max. 8-Hour Conc. (ppm)	0.101	0.087	0.115	0.083	0.096
Carbon Monoxide (CO)					
Number of Days Standards Exceeded					
8-Hour > 9.0 ppm (S, F)	0	0	0	0	0
Maximum Observed Concentration					
Max 8-Hour Conc. (ppm)	2.1	2.2	1.7	1.9	1.8
Nitrogen Dioxide (NO_2)					
Number of Days Standards Exceeded					
1-Hour > 0.18 ppm (S)	0	0	0	0	0
Maximum Observed Concentration					
Max. 1-Hour Conc. (ppm)	0.057	0.064	0.054	0.077	0.054
Inhalable Particulates (PM-10)[2]					
Number of Days Standards Exceeded/Days Monitored					
24-Hour > 50 μg/m³ (S)	31/363	3/9	24/337	3/60	4/360
24-Hour > 150 μg/m³ (F)	0/363	0/9	0/337	0/60	0/360
Maximum Observed Concentration					
Max. 24-Hr. Conc. (μg/m³)	81	62	77	64	60
Ultra-Fine Particulates (PM-2.5)					
Number of Days Standards Exceeded/Days Monitored					
24-Hour > 35 μg/m³ (F)	0/106	0/118	0/116	3/120	0/121
Maximum Observed Concentration					
Max. 24-Hr. Conc. (μg/m³)	31.0	30.0	27.6	55.5	20.5

Source: SCAQMD, Historical Data by Year, Air Quality Data Tables downloaded from: https://www.aqmd.gov/home/air-quality/historical-air-quality-data/historical-data-by-year.
[1] Federal standard of 0.075 is not reported as state 0.07 is more stringent.
[2] Data taken from the Central LA (downtown) monitoring station as the West San Fernando Valley station does not record PM-10 data.

As shown in Table 2, O_3 levels within the valley occasionally exceed both the 1-hour and 8-hour standards on a yearly basis, which is common throughout the County, and PM levels will also exceed standards, which reflects the pollutants for which the basin is in non-attainment.

[9] South Coast Air Quality Management District, Historical Data by Year, 2018-2016 Air Quality Data Tables.

Greenhouse Gases

Section 38505(g) of the California Health and Safety Code defines GHGs to include the following compounds: carbon dioxide (CO_2), methane (CH_4), nitrous oxide (N_2O), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), sulfur hexafluoride (SF_6), and nitrogen trifluoride (NF_3). Two important ways in which these gases differ from each other are their ability to absorb energy (their "radiative efficiency"), and how long they stay in the atmosphere (also known as their "lifetime"). The ability of equivalent masses of each GHG to trap heat in the atmosphere is measured by its global warming potential (GWP).[10] CO_2 is the reference gas used for GWP, and it has a GWP of one. The GWP of other GHGs are determined based on their heat trapping potential relative to CO_2. Because of this, GHG emissions are commonly expressed in terms of carbon dioxide equivalents (CO_2e), where CO_2e is calculated by the quantity of each GHG multiplied by its associated GWP factor. Below is a description of each GHG emission as described by the California Climate Action Registry (CCAR) General Reporting Protocol.[11]

- Carbon Dioxide (CO_2): Consisting of a single carbon and two oxygen atoms, CO_2 is the most common of the six primary GHG emissions, and it provides the reference point for the GWP of other gases. Thus, the GWP of CO_2 is equal to one.

- Nitrous Oxide (N_2O): Consisting of two nitrogen atoms and a single oxygen atom, N_2O possesses a GWP of 310 and is typically generated as a result of soil cultivation practices, particularly the use of commercial and organic fertilizers, fossil fuel combustion, nitric acid production, and biomass burning.

- Methane (CH4): Consisting of a single carbon atom and four hydrogen atoms, CH_4 possesses a GWP of 21 and is produced through the anaerobic decomposition of waste in landfills, animal digestion, decomposition of animal wastes, production and distribution of natural gas and petroleum, coal production, and incomplete fossil fuel combustion.

- Hydrofluorocarbons (HFCs): Primarily used as refrigerants, HFCs consist of a class of gases containing hydrogen, fluorine, and carbon. They possess a range of high and very high GWP values from 120 to 12,000.

- Perfluorocarbons (PFCs): PFCs consist of a class of gases containing carbon and fluorine and are originally introduced as alternatives to ozone depleting substances. They are typically emitted as by-products of industrial and manufacturing processes and possess GWPs ranging from 5,700 to 11,900.

- Sulfur Hexafluoride (SF_6): SF_6 consists of a single sulfur atom and six fluoride atoms, possessing a very high GWP of 23,900. SF_6 is primarily used in electrical transmission and distribution systems.

According to the CARB *California Greenhouse Gas Emissions for 2000 to 2020 Trends of Emissions and Other Indicators*, "In 2020, emissions from GHG emitting activities statewide were 369.2 MMT CO_2e, 35.3 MMT CO_2e lower than 2019 levels and 61.8 MMT CO_2e below the 2020 GHG Limit of 431 MMT CO_2e. The 2019 to 2020 decrease in emissions is likely due in large part to the impacts of the COVID-19 pandemic. Economic recovery from the pandemic may result in emissions increases over the next few years. As such, the total 2020 reported

10 U.S. Environmental Protection Agency, Greenhouse Gas Emissions Understanding Global Warming Potentials, Accessed on September 17, 2023 at: https://www.epa.gov/ghgemissions/understanding-global-warming-potentials.

11 California Climate Action Registry, General Reporting Protocol Version 3.1, January 2009.

emissions are likely an anomaly, and any near-term increases in annual emissions should be considered in the context of the pandemic."[12]

Per capita GHG emissions in California have dropped from a 2001 peak of 13.8 metric tons per person to 9.3 metric tons per person in 2020, a 33 percent decrease. Overall trends in the inventory also continue to demonstrate that the carbon intensity of California's economy (the amount of carbon pollution per million dollars of gross domestic product (GDP)) is declining. From 2000 to 2020, the carbon intensity of California's economy decreased by 49 percent while the GDP increased by 56 percent. Likely in part due to the COVID-19 pandemic, GDP fell 2.8 percent in 2020 while the emissions per GDP declined by 6.1 percent compared to 2019.[13]

[12] California Air Resources Board, California Greenhouse Gas Emissions for 2000 to 2020 Trends of Emissions and Other Indicators, October 26, 2022.

[13] California Air Resources Board, California Greenhouse Gas Emissions for 2000 to 2020 Trends of Emissions and Other Indicators, October 26, 2022.

2. CalEEMod Detailed Reports for Phase I and Phase II Construction Emissions Modeling

Notes on models:

Phase 1 demo debris was calculated in the following manner:

CalEEMod calculated the demolition of 34,896 square-feet of structures (all structures except for the portables that will continue to be used and the restroom building on the eastern boundary of the site) would require 15 one-way haul trips a day, which equals 7.5 laden and 7.5 unladen trips, for 27 days (duration of demo phase). The default truck in CalEEMod holds 20 tons of material, therefore 34,896 sf = 4,050 tons. The Preliminary Geotechnical Evaluation reports that where borings occurred in pavement covered areas the pavement was 2.5 to 3.5 inches thick in pedestrian areas, and 5 to 8.5 inches thick in traffic areas. To estimate pavement debris the promenade is calculated as 29,938 square-feet in area with 7 inch pavement, and the area around the campus buildings at 37,430 square-feet (not including promenade or the quads) with 3 inch pavement. This amounts to 1,281 tons and 687 tons of debris, respectively (at 3,960 pounds per cubic yard of asphalt). Total debris to be removed during demolition therefore is 6,018 tons of debris. The Phase II ESA determined an estimated 273 cubic yards of soil on site is contaminated and must be removed. As that soil must be replaced it is certain that 273 cubic yards of soil must be exported and another 273 cubic yards of soil imported. Although it appears fill replacement should result in minimal additional soil import/export, a conservative total figure of 400 cubic yards was chosen for the emissions model and applied to both phases to account for the potential of all import/export occurring during one grading phase.

Phase 2 demo debris was calculated in the following manner:

The portables to be demo'd plus easternmost restrooms = 8,215 sf of structures. CalEEmod calculates this at 4 trips a day (2 laden trips) for 23 days. Each trip is 20 tons, to the total is 920 tons. Asphalt in Phase 2 areas is assumed to stay on site and be used as base for new asphalt except where it must be removed according to the ESA. Total removal equals 17,540sf of asphalt. Assuming 3 inch thickness asphalt amounts to162cy of material. At 3,960 lbs per cubic yard this equals 321 tons. With the addition of the structures this equals 1,241 tons of material to be removed. 400 cy of import/export of soil was added as described above..

LAUSD Canoga Detailed Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

1.2. Land Use Types

1.3. User-Selected Emission Reduction Measures by Emissions Sector

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

2.2. Construction Emissions by Year, Unmitigated

3. Construction Emissions Details

3.1. Demolition (2025) - Unmitigated

3.3. Demolition (2026) - Unmitigated

3.5. Grading (2026) - Unmitigated

3.7. Building Construction (2026) - Unmitigated

3.9. Building Construction (2027) - Unmitigated

3.11. Paving (2026) - Unmitigated

3.13. Architectural Coating (2027) - Unmitigated

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

5. Activity Data

5.1. Construction Schedule

5.2. Off-Road Equipment

5.2.1. Unmitigated

5.3. Construction Vehicles

5.3.1. Unmitigated

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

5.5. Architectural Coatings

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

5.6.2. Construction Earthmoving Control Strategies

5.7. Construction Paving

5.8. Construction Electricity Consumption and Emissions Factors

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	LAUSD Canoga
Construction Start Date	11/29/2025
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	19.2
Location	6850 Topanga Canyon Blvd, Canoga Park, CA 91303, USA
County	Los Angeles-South Coast
City	Los Angeles
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	3866
EDFZ	17
Electric Utility	Los Angeles Department of Water & Power
Gas Utility	Southern California Gas
App Version	2022.1.1.20

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
High School	50.0	1000sqft	2.40	50,000	37,626	0.00	—	—

Other Non-Asphalt Surfaces	29.9	1000sqft	0.69	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Unmit.	17.1	4.56	29.9	0.04	0.72	0.23	5,163
Daily, Winter (Max)	—	—	—	—	—	—	—
Unmit.	17.4	7.60	29.5	0.05	3.23	1.50	6,120
Average Daily (Max)	—	—	—	—	—	—	—
Unmit.	2.09	2.71	15.6	0.02	0.59	0.18	2,968
Annual (Max)	—	—	—	—	—	—	—
Unmit.	0.38	0.49	2.85	< 0.005	0.11	0.03	491
Exceeds (Daily Max)	—	—	—	—	—	—	—
Threshold	75.0	100	550	150	150	55.0	—
Unmit.	No	No	No	No	No	No	—
Exceeds (Average Daily)	—	—	—	—	—	—	—
Threshold	75.0	100	550	150	150	55.0	—
Unmit.	No	No	No	No	No	No	—

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—
2026	0.59	4.56	29.9	0.04	0.72	0.23	5,163
2027	17.1	0.66	1.22	< 0.005	0.06	0.02	191
Daily - Winter (Max)	—	—	—	—	—	—	—
2025	0.46	7.60	20.2	0.05	2.81	0.60	6,120
2026	0.59	7.48	29.5	0.05	3.23	1.50	6,075
2027	17.4	3.07	16.7	0.03	0.45	0.14	3,122
Average Daily	—	—	—	—	—	—	—
2025	0.03	0.45	1.19	< 0.005	0.16	0.04	360
2026	0.31	2.71	15.6	0.02	0.59	0.18	2,968
2027	2.09	0.31	1.63	< 0.005	0.04	0.01	304
Annual	—	—	—	—	—	—	—
2025	< 0.005	0.08	0.22	< 0.005	0.03	0.01	59.5
2026	0.06	0.49	2.85	< 0.005	0.11	0.03	491
2027	0.38	0.06	0.30	< 0.005	0.01	< 0.005	50.4

3. Construction Emissions Details

3.1. Demolition (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Off-Road Equipment	0.36	4.51	18.2	0.03	0.06	0.06	3,437

Demolition	—	—	—	—	1.89	0.29	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.26	1.07	< 0.005	< 0.005	< 0.005	202
Demolition	—	—	—	—	0.11	0.02	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.05	0.19	< 0.005	< 0.005	< 0.005	33.4
Demolition	—	—	—	—	0.02	< 0.005	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Worker	0.06	0.07	0.88	0.00	0.20	0.05	199
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.03	3.02	1.14	0.02	0.66	0.20	2,485
Average Daily	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.05	0.00	0.01	< 0.005	11.9
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.18	0.07	< 0.005	0.04	0.01	146
Annual	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	< 0.005	< 0.005	1.97
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.03	0.01	< 0.005	0.01	< 0.005	24.2

3.3. Demolition (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Off-Road Equipment	0.36	4.51	18.2	0.03	0.06	0.06	3,438
Demolition	—	—	—	—	1.89	0.29	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.28	1.14	< 0.005	< 0.005	< 0.005	215
Demolition	—	—	—	—	0.12	0.02	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.05	0.21	< 0.005	< 0.005	< 0.005	35.6
Demolition	—	—	—	—	0.02	< 0.005	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Worker	0.05	0.07	0.83	0.00	0.20	0.05	195
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.03	2.91	1.11	0.02	0.66	0.20	2,442
Average Daily	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.05	0.00	0.01	< 0.005	12.4
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.18	0.07	< 0.005	0.04	0.01	153
Annual	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	< 0.005	< 0.005	2.05

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.03	0.01	< 0.005	0.01	< 0.005	25.3

3.5. Grading (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Off-Road Equipment	0.29	2.04	17.8	0.03	0.06	0.06	2,970
Dust From Material Movement	—	—	—	—	2.76	1.34	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.05	0.44	< 0.005	< 0.005	< 0.005	73.2
Dust From Material Movement	—	—	—	—	0.07	0.03	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.01	0.08	< 0.005	< 0.005	< 0.005	12.1
Dust From Material Movement	—	—	—	—	0.01	0.01	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Worker	0.05	0.07	0.83	0.00	0.20	0.05	195
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.01	0.95	0.36	0.01	0.22	0.07	793
Average Daily	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	< 0.005	< 0.005	4.89
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.02	0.01	< 0.005	0.01	< 0.005	19.6
Annual	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.81
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	3.24

3.7. Building Construction (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Off-Road Equipment	0.23	2.03	14.3	0.02	0.04	0.04	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—
Off-Road Equipment	0.23	2.03	14.3	0.02	0.04	0.04	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—
Off-Road Equipment	0.14	1.26	8.90	0.01	0.03	0.03	1,497
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.23	1.62	< 0.005	< 0.005	< 0.005	248
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—
Worker	0.08	0.08	1.36	0.00	0.27	0.06	289
Vendor	0.01	0.28	0.14	< 0.005	0.07	0.02	267
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—
Worker	0.08	0.09	1.16	0.00	0.27	0.06	273
Vendor	0.01	0.29	0.14	< 0.005	0.07	0.02	267
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—
Worker	0.05	0.06	0.75	0.00	0.17	0.04	173
Vendor	< 0.005	0.18	0.09	< 0.005	0.05	0.01	166
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—
Worker	0.01	0.01	0.14	0.00	0.03	0.01	28.6
Vendor	< 0.005	0.03	0.02	< 0.005	0.01	< 0.005	27.5
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Building Construction (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Off-Road Equipment	0.23	2.03	14.3	0.02	0.04	0.04	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.19	1.37	< 0.005	< 0.005	< 0.005	231

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.04	0.25	< 0.005	< 0.005	< 0.005	38.2
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Worker	0.07	0.09	1.07	0.00	0.27	0.06	268
Vendor	0.01	0.28	0.13	< 0.005	0.07	0.02	261
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—
Worker	0.01	0.01	0.11	0.00	0.03	0.01	26.1
Vendor	< 0.005	0.03	0.01	< 0.005	0.01	< 0.005	25.1
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	< 0.005	< 0.005	4.32
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	4.15
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Paving (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Off-Road Equipment	0.19	2.08	12.6	0.02	0.03	0.03	1,892
Paving	< 0.005	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—
Off-Road Equipment	0.19	2.08	12.6	0.02	0.03	0.03	1,892
Paving	< 0.005	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.62	3.77	0.01	0.01	0.01	565
Paving	< 0.005	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.11	0.69	< 0.005	< 0.005	< 0.005	93.5
Paving	< 0.005	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Worker	0.08	0.09	1.45	0.00	0.29	0.07	309
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—
Worker	0.08	0.10	1.24	0.00	0.29	0.07	293
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—
Worker	0.02	0.03	0.39	0.00	0.09	0.02	88.8
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—
Worker	< 0.005	0.01	0.07	0.00	0.02	< 0.005	14.7

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Architectural Coating (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.65	0.96	< 0.005	< 0.005	< 0.005	134
Architectural Coatings	17.1	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.65	0.96	< 0.005	< 0.005	< 0.005	134
Architectural Coatings	17.1	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.08	0.12	< 0.005	< 0.005	< 0.005	16.1
Architectural Coatings	2.06	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.01	0.02	< 0.005	< 0.005	< 0.005	2.67
Architectural Coatings	0.38	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Worker	0.01	0.01	0.25	0.00	0.05	0.01	56.6
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—
Worker	0.01	0.02	0.21	0.00	0.05	0.01	53.5
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.03	0.00	0.01	< 0.005	6.56
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.00	< 0.005	< 0.005	1.09
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—

Subtotal	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	12/2/2025	2/1/2026	5.00	44.0	—
Grading	Grading	2/3/2026	2/15/2026	5.00	9.00	—
Building Construction	Building Construction	2/17/2026	2/18/2027	5.00	263	—
Paving	Paving	7/26/2026	12/24/2026	5.00	109	—
Architectural Coating	Architectural Coating	2/4/2027	4/6/2027	5.00	44.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Tier 4 Final	1.00	8.00	33.0	0.73

Demolition	Excavators	Diesel	Tier 4 Final	3.00	8.00	36.0	0.38
Demolition	Rubber Tired Dozers	Diesel	Tier 4 Final	2.00	8.00	367	0.40
Grading	Excavators	Diesel	Tier 4 Final	1.00	8.00	36.0	0.38
Grading	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
Grading	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	3.00	8.00	84.0	0.37
Building Construction	Cranes	Diesel	Tier 4 Final	1.00	7.00	367	0.29
Building Construction	Forklifts	Diesel	Tier 4 Final	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Tier 4 Final	1.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	3.00	7.00	84.0	0.37
Building Construction	Welders	Diesel	Tier 4 Final	1.00	8.00	46.0	0.45
Paving	Pavers	Diesel	Tier 4 Final	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Tier 4 Final	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Tier 4 Final	2.00	8.00	36.0	0.38
Paving	Cement and Mortar Mixers	Diesel	Tier 4 Final	2.00	6.00	10.0	0.56
Paving	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	8.00	84.0	0.37
Architectural Coating	Air Compressors	Diesel	Tier 4 Final	1.00	6.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	15.0	18.5	LDA,LDT1,LDT2
Demolition	Vendor	—	10.2	HHDT,MHDT

Demolition	Hauling	34.2	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	15.0	18.5	LDA,LDT1,LDT2
Grading	Vendor	—	10.2	HHDT,MHDT
Grading	Hauling	11.1	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	21.0	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	8.20	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	22.5	18.5	LDA,LDT1,LDT2
Paving	Vendor	—	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	4.20	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	0.00	0.00	75,000	85,187	1,796

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (Ton of Debris)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	6,018	—
Grading	400	400	9.00	0.00	—
Paving	0.00	0.00	0.00	0.00	1.99

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	2	61%	61%
Water Demolished Area	2	36%	36%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
High School	1.30	0%
Other Non-Asphalt Surfaces	0.69	20%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2025	0.00	690	0.05	0.01
2026	0.00	690	0.05	0.01
2027	0.00	690	0.05	0.01

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit

Temperature and Extreme Heat	19.4	annual days of extreme heat
Extreme Precipitation	5.70	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	0.00	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	2	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	2	1	1	3
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	1	1	2
Wildfire	1	1	1	2
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	82.5
AQ-PM	63.3
AQ-DPM	64.4
Drinking Water	83.1
Lead Risk Housing	50.5

Pesticides	0.00
Toxic Releases	52.2
Traffic	60.8
Effect Indicators	—
CleanUp Sites	27.5
Groundwater	71.1
Haz Waste Facilities/Generators	58.3
Impaired Water Bodies	43.8
Solid Waste	43.9
Sensitive Population	—
Asthma	88.2
Cardio-vascular	82.4
Low Birth Weights	73.8
Socioeconomic Factor Indicators	—
Education	85.5
Housing	78.1
Linguistic	92.5
Poverty	86.5
Unemployment	22.6

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	21.39099192
Employed	80.73912486
Median HI	18.96573848

Education	—
Bachelor's or higher	26.78044399
High school enrollment	100
Preschool enrollment	41.10098807
Transportation	—
Auto Access	10.67624791
Active commuting	90.01668164
Social	—
2-parent households	24.53483896
Voting	13.93558322
Neighborhood	—
Alcohol availability	24.79147953
Park access	15.9373797
Retail density	96.00923906
Supermarket access	87.62992429
Tree canopy	43.19260875
Housing	—
Homeownership	8.700115488
Housing habitability	13.96124727
Low-inc homeowner severe housing cost burden	24.35519056
Low-inc renter severe housing cost burden	41.13948415
Uncrowded housing	8.738611574
Health Outcomes	—
Insured adults	3.759784422
Arthritis	69.6
Asthma ER Admissions	26.8
High Blood Pressure	78.2

Cancer (excluding skin)	77.2
Asthma	34.7
Coronary Heart Disease	47.4
Chronic Obstructive Pulmonary Disease	31.1
Diagnosed Diabetes	31.9
Life Expectancy at Birth	74.3
Cognitively Disabled	94.6
Physically Disabled	67.1
Heart Attack ER Admissions	27.6
Mental Health Not Good	18.5
Chronic Kidney Disease	45.1
Obesity	21.5
Pedestrian Injuries	70.0
Physical Health Not Good	18.5
Stroke	34.3
Health Risk Behaviors	—
Binge Drinking	50.7
Current Smoker	18.3
No Leisure Time for Physical Activity	21.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	7.3
Elderly	76.6
English Speaking	4.6
Foreign-born	94.2
Outdoor Workers	13.9

Climate Change Adaptive Capacity	—
Impervious Surface Cover	25.3
Traffic Density	69.1
Traffic Access	87.4
Other Indices	—
Hardship	79.0
Other Decision Support	—
2016 Voting	17.4

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	91.0
Healthy Places Index Score for Project Location (b)	26.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	High school land use includes work west of the promenade, including the promenade, but excluding resurfacing of parking lot and athletic area in NW corner. Hunter student union bldg at 50k sf. Landcaping is estimate at 40% of development area (minus building footprint): Both of the quads are in the work area and will be majority landscape, other areas are intended to be 20-30% landscaped. Lot acreage reflects the development zone areas on the west site excluding a small area around the boiler room and the promenade (exclusion of boiler room won't effect estimates as there will be no earth moving activities there. Parking represents flat work for the promenade. No landscaping is included as that is captured in the high school use.
Construction: Construction Phases	Per Page 64 of criteria docs demo plus "rough grading" phase (the only grading phase in the docs) is 4 months. Per page 66 construction is 48 months. "Construction" includes CalEEMod construction, paving, and coating phases. The phases in the criteria docs are long because it is unknown at this time exactly how different components of the project will be phased. In order to create a more realistic timeframe for emissions calculations the project has been broken into two phases. Phase 1- represented here- includes all of the work west of the promenade, including the promenade, but excluding the resurfacing of parking and athletic areas as they will be used during construction of the new student union building. Demo and grading are reduced to 2.5 months total. Construction is 1 year. Paving normally occurs after construction in the model but the promenade will likely be completed asap as it is the primary fire lane. Painting includes all buildings west of the promenade and as such is extended as phasing may have the student union building painted first and other buildings painted once that is occupied.
Construction: Architectural Coatings	All existing, remaining buildings will receive exterior paint. Total of 240,747sf of existing buildings, per CalEEMod's formula exterior point sf is 25% of that figure: 60,187 sf. This was added to 25,000 sf calculated by CalEEMod for new buildings.
Construction: Paving	Development area minus building footprint is 94,065. Landscaping was calculated at 40% of that figure, hardscaping is therefore 60%- 1.3 acres. Promenade is estimated to be 20% asphalt, though there may be none.
Construction: Off-Road Equipment	LAUSD standard condition SC-AQ 4 states that tier 4 equipment will be specified for the project.

LAUSD Phase 2 Detailed Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

1.2. Land Use Types

1.3. User-Selected Emission Reduction Measures by Emissions Sector

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

2.2. Construction Emissions by Year, Unmitigated

3. Construction Emissions Details

3.1. Demolition (2027) - Unmitigated

3.3. Grading (2027) - Unmitigated

3.5. Building Construction (2027) - Unmitigated

3.7. Building Construction (2028) - Unmitigated

3.9. Paving (2028) - Unmitigated

3.11. Architectural Coating (2028) - Unmitigated

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

5. Activity Data

5.1. Construction Schedule

5.2. Off-Road Equipment

5.2.1. Unmitigated

5.3. Construction Vehicles

5.3.1. Unmitigated

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

5.5. Architectural Coatings

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

5.6.2. Construction Earthmoving Control Strategies

5.7. Construction Paving

5.8. Construction Electricity Consumption and Emissions Factors

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	LAUSD Phase 2
Construction Start Date	4/7/2027
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	19.2
Location	6850 Topanga Canyon Blvd, Canoga Park, CA 91303, USA
County	Los Angeles-South Coast
City	Los Angeles
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	3866
EDFZ	17
Electric Utility	Los Angeles Department of Water & Power
Gas Utility	Southern California Gas
App Version	2022.1.1.20

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
City Park	5.20	Acre	5.20	0.00	152,662	152,661	—	—

Other Asphalt Surfaces	3.70	Acre	3.70	0.00	0.00	0.00	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	ROG	NOx	CO	SO2	PM10T	PM2.5T	BCO2	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—
Unmit.	5.63	5.63	19.5	0.04	3.14	1.48	—	4,589
Daily, Winter (Max)	—	—	—	—	—	—	—	—
Unmit.	0.23	2.03	14.3	0.02	0.04	0.04	—	2,406
Average Daily (Max)	—	—	—	—	—	—	—	—
Unmit.	0.40	1.32	7.98	0.01	0.23	0.10	—	1,445
Annual (Max)	—	—	—	—	—	—	—	—
Unmit.	0.07	0.24	1.46	< 0.005	0.04	0.02	—	239
Exceeds (Daily Max)	—	—	—	—	—	—	—	—
Threshold	75.0	100	550	150	150	55.0	—	—
Unmit.	No	No	No	No	No	No	—	—
Exceeds (Average Daily)	—	—	—	—	—	—	—	—
Threshold	75.0	100	550	150	150	55.0	—	—
Unmit.	No	No	No	No	No	No	—	—

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	ROG	NOx	CO	SO2	PM10T	PM2.5T	BCO2	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—
2027	0.43	5.63	19.5	0.04	3.14	1.48	—	4,589
2028	5.63	2.03	14.3	0.02	0.22	0.07	—	2,406
Daily - Winter (Max)	—	—	—	—	—	—	—	—
2027	0.23	2.03	14.3	0.02	0.04	0.04	—	2,405
2028	0.23	2.03	14.3	0.02	0.04	0.04	—	2,406
Average Daily	—	—	—	—	—	—	—	—
2027	0.14	1.32	7.98	0.01	0.23	0.10	—	1,445
2028	0.40	0.63	4.01	0.01	0.03	0.02	—	656
Annual	—	—	—	—	—	—	—	—
2027	0.03	0.24	1.46	< 0.005	0.04	0.02	—	239
2028	0.07	0.11	0.73	< 0.005	0.01	< 0.005	—	109

3. Construction Emissions Details

3.1. Demolition (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	BCO2	CO2e
Onsite	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—
Off-Road Equipment	0.36	4.51	18.2	0.03	0.06	0.06	—	3,439
Demolition	—	—	—	—	0.75	0.11	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—

Off-Road Equipment	0.02	0.28	1.15	< 0.005	< 0.005	< 0.005	—	217
Demolition	—	—	—	—	0.05	0.01	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.05	0.21	< 0.005	< 0.005	< 0.005	—	35.9
Demolition	—	—	—	—	0.01	< 0.005	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Offsite	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.90	0.00	0.20	0.05	—	202
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.01	1.07	0.42	0.01	0.26	0.08	—	948
Daily, Winter (Max)	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.05	0.00	0.01	< 0.005	—	12.2
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	< 0.005	0.07	0.03	< 0.005	0.02	0.01	—	59.7
Annual	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	< 0.005	< 0.005	—	2.03
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	—	9.88

3.3. Grading (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	BCO2	CO2e
Onsite	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—

Off-Road Equipment	0.29	2.04	17.8	0.03	0.06	0.06	—	2,970
Dust From Material Movement	—	—	—	—	2.76	1.34	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.08	0.73	< 0.005	< 0.005	< 0.005	—	122
Dust From Material Movement	—	—	—	—	0.11	0.05	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.02	0.13	< 0.005	< 0.005	< 0.005	—	20.2
Dust From Material Movement	—	—	—	—	0.02	0.01	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Offsite	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.90	0.00	0.20	0.05	—	202
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.01	0.53	0.21	< 0.005	0.13	0.04	—	468
Daily, Winter (Max)	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.03	0.00	0.01	< 0.005	—	7.98
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	< 0.005	0.02	0.01	< 0.005	0.01	< 0.005	—	19.2
Annual	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	< 0.005	< 0.005	—	1.32
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.18

3.5. Building Construction (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	BCO2	CO2e
Onsite	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	2.03	14.3	0.02	0.04	0.04	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	2.03	14.3	0.02	0.04	0.04	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Average Daily	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.85	5.99	0.01	0.02	0.02	—	1,007
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.16	1.09	< 0.005	< 0.005	< 0.005	—	167
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Offsite	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Average Daily	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00

3.7. Building Construction (2028) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	BCO2	CO2e
Onsite	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	2.03	14.3	0.02	0.04	0.04	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	2.03	14.3	0.02	0.04	0.04	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Average Daily	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.43	3.02	< 0.005	0.01	0.01	—	508
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.08	0.55	< 0.005	< 0.005	< 0.005	—	84.2
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Offsite	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Average Daily	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00

3.9. Paving (2028) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	BCO2	CO2e
Onsite	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	1.93	10.6	0.01	0.03	0.03	—	1,516
Paving	0.32	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.16	0.87	< 0.005	< 0.005	< 0.005	—	125
Paving	0.03	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00

Annual	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.03	0.16	< 0.005	< 0.005	< 0.005	—	20.6
Paving	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Offsite	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.85	0.00	0.20	0.05	—	198
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.06	0.00	0.02	< 0.005	—	15.7
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	< 0.005	< 0.005	—	2.60
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00

3.11. Architectural Coating (2028) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	BCO2	CO2e
Onsite	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.65	0.96	< 0.005	< 0.005	< 0.005	—	134
Architectural Coatings	5.61	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.04	0.05	< 0.005	< 0.005	< 0.005	—	7.34
Architectural Coatings	0.31	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	1.22
Architectural Coatings	0.06	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Offsite	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	ROG	NOx	CO	SO2	PM10T	PM2.5T	BCO2	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10T	PM2.5T	BCO2	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	ROG	NOx	CO	SO2	PM10T	PM2.5T	BCO2	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	4/7/2027	5/7/2027	5.00	23.0	—
Grading	Grading	5/8/2027	5/29/2027	5.00	15.0	—
Building Construction	Building Construction	6/1/2027	4/17/2028	5.00	230	—
Paving	Paving	4/18/2028	5/29/2028	5.00	30.0	—
Architectural Coating	Architectural Coating	5/30/2028	6/26/2028	5.00	20.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Tier 4 Final	1.00	8.00	33.0	0.73
Demolition	Excavators	Diesel	Tier 4 Final	3.00	8.00	36.0	0.38
Demolition	Rubber Tired Dozers	Diesel	Tier 4 Final	2.00	8.00	367	0.40
Grading	Excavators	Diesel	Tier 4 Final	1.00	8.00	36.0	0.38
Grading	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
Grading	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	3.00	8.00	84.0	0.37
Building Construction	Cranes	Diesel	Tier 4 Final	1.00	7.00	367	0.29
Building Construction	Forklifts	Diesel	Tier 4 Final	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Tier 4 Final	1.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	3.00	7.00	84.0	0.37
Building Construction	Welders	Diesel	Tier 4 Final	1.00	8.00	46.0	0.45
Paving	Pavers	Diesel	Tier 4 Final	2.00	8.00	81.0	0.42

Paving	Paving Equipment	Diesel	Tier 4 Final	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Tier 4 Final	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Tier 4 Final	1.00	6.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	15.0	18.5	LDA,LDT1,LDT2
Demolition	Vendor	—	10.2	HHDT,MHDT
Demolition	Hauling	13.5	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	15.0	18.5	LDA,LDT1,LDT2
Grading	Vendor	—	10.2	HHDT,MHDT
Grading	Hauling	6.67	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	0.00	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	0.00	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	—	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT

Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	0.00	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	0.00	0.00	10,890	3,630	9,670

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (Ton of Debris)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	1,241	—
Grading	400	400	15.0	0.00	—
Paving	0.00	0.00	0.00	0.00	3.70

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction

Water Exposed Area	2	61%	61%
Water Demolished Area	2	36%	36%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
City Park	0.00	0%
Other Asphalt Surfaces	3.70	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2027	0.00	690	0.05	0.01
2028	0.00	690	0.05	0.01

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	19.4	annual days of extreme heat
Extreme Precipitation	5.70	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	0.00	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	2	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A

Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	2	1	1	3
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	1	1	2
Wildfire	1	1	1	2
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	82.5
AQ-PM	63.3
AQ-DPM	64.4
Drinking Water	83.1
Lead Risk Housing	50.5
Pesticides	0.00
Toxic Releases	52.2
Traffic	60.8
Effect Indicators	—
CleanUp Sites	27.5
Groundwater	71.1
Haz Waste Facilities/Generators	58.3
Impaired Water Bodies	43.8
Solid Waste	43.9
Sensitive Population	—
Asthma	88.2
Cardio-vascular	82.4
Low Birth Weights	73.8
Socioeconomic Factor Indicators	—
Education	85.5
Housing	78.1

Linguistic	92.5
Poverty	86.5
Unemployment	22.6

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	21.39099192
Employed	80.73912486
Median HI	18.96573848
Education	—
Bachelor's or higher	26.78044399
High school enrollment	100
Preschool enrollment	41.10098807
Transportation	—
Auto Access	10.67624791
Active commuting	90.01668164
Social	—
2-parent households	24.53483896
Voting	13.93558322
Neighborhood	—
Alcohol availability	24.79147953
Park access	15.9373797
Retail density	96.00923906
Supermarket access	87.62992429
Tree canopy	43.19260875

Housing	—
Homeownership	8.700115488
Housing habitability	13.96124727
Low-inc homeowner severe housing cost burden	24.35519056
Low-inc renter severe housing cost burden	41.13948415
Uncrowded housing	8.738611574
Health Outcomes	—
Insured adults	3.759784422
Arthritis	69.6
Asthma ER Admissions	26.8
High Blood Pressure	78.2
Cancer (excluding skin)	77.2
Asthma	34.7
Coronary Heart Disease	47.4
Chronic Obstructive Pulmonary Disease	31.1
Diagnosed Diabetes	31.9
Life Expectancy at Birth	74.3
Cognitively Disabled	94.6
Physically Disabled	67.1
Heart Attack ER Admissions	27.6
Mental Health Not Good	18.5
Chronic Kidney Disease	45.1
Obesity	21.5
Pedestrian Injuries	70.0
Physical Health Not Good	18.5
Stroke	34.3
Health Risk Behaviors	—

Binge Drinking	50.7
Current Smoker	18.3
No Leisure Time for Physical Activity	21.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	7.3
Elderly	76.6
English Speaking	4.6
Foreign-born	94.2
Outdoor Workers	13.9
Climate Change Adaptive Capacity	—
Impervious Surface Cover	25.3
Traffic Density	69.1
Traffic Access	87.4
Other Indices	—
Hardship	79.0
Other Decision Support	—
2016 Voting	17.4

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	91.0
Healthy Places Index Score for Project Location (b)	26.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Work area includes everything east of the promenade and the parking and athletic field to be resurfaced in the NW area of the campus. City park used for athletic field and surrounding, size is that area minus the area on the east side that will be paved. Landscape area is total area minus the track, bleachers, and building footprints. All of landscaping conservatively considered special landscaping (entered as -1 less square-feet in order to enable this note). Recreational building is the total of the two buildings in the work area (7,260). Parking other asphalt surface captures the running track, paved area east of the track, and the parking and play areas in the NW area of the campus.
Construction: Construction Phases	Default kept for construction and coating. Demo and grading reduced to 1.5 months (to keep in 4 mo total from criteria docs including phase 1). Paving increased 10 days from default.
Construction: Off-Road Equipment	Standard conditions of approval stipulate Tier 4 equipment.

3. Development Area Breakdowns for CalEEMod Modeling

III. Development Area Breakdowns for CalEEMod Modeling

GENERAL NOTES

1. REPAINT ALL REMAINING BUILDINGS AND STRUCTURES ON CAMPUS, INCLUDING BUT NOT LIMITED PLASTER, CONCRETE, METAL, SCREENS, RAILINGS, SOFFITS, FIXTURE, ACCESSORIES, ROOFING, WOOD TRIM AND FASCIAS, LOCKERS, DOORS, DOOR FRAMES, GUTTERS, AND DOWNSPOUTS, ARCADES, COLUMNS, CANOPIES, AND OTHER BUILDING ELEMENTS. COLORS TO BE COORDINATED WITH OVERALL CAMPUS COLOR SCHEMES. EXTERIOR SURFACES SHOULD BE PREPARED AND TREATED PER LAUSD SPEC SECTION 09_9013 PAINTING OF EXISTING_FACILITIES_20211.

2. PROTECT SPECIALTY SIGNS, MURALS AND EXPOSED FACE BRICK DURING BUILDING ENHANCEMENTS.

3. REPLACE ALL ROTTEN WOOD FLOOR BOARDS & SEATS AND MATCH EXISTING COLOR AND FINISH FOR ALL EXISTING BLEACHERS.

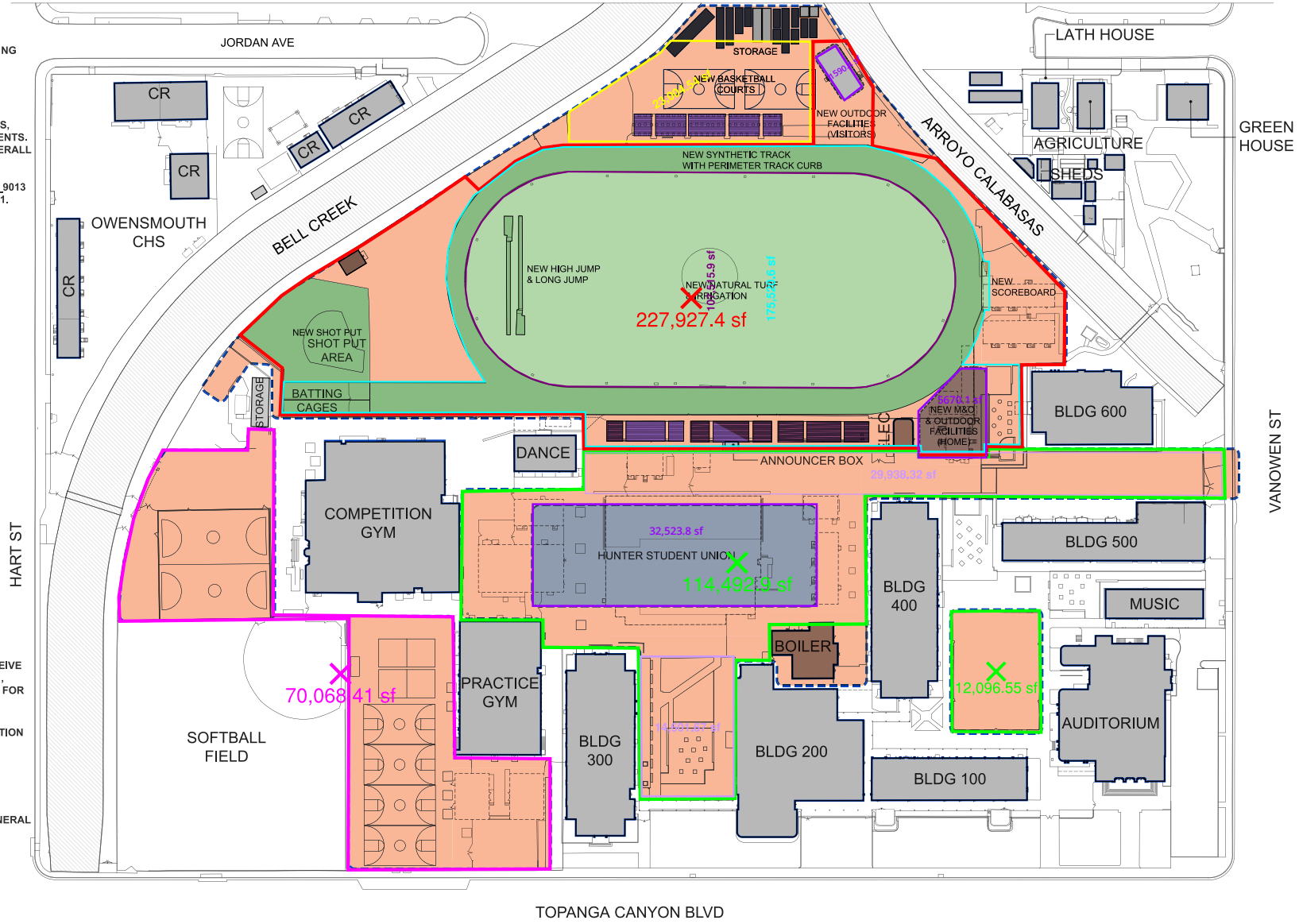
4. MODIFY EXISTING BLEACHERS FOR ADA SEATING AND ADA COMPLIANT HAND & GUARD RAILS.

5. CLEAN THE RUST OFF THE EXISTING BLEACHERS.

6. REPAINT THE ANNOUNCER'S BOOTH

LEGEND

- DEVELOPMENT ZONES
- SITE IMPROVEMENT
- EXISTING BUILDING TO RECEIVE EXTERIOR ENHANCEMENTS , REFER TO GENERAL NOTES FOR DETAILS
- POTENTIAL BUILDING LOCATION
- NEW REPLACEMENT
- REPAIR / MODIFICATION BLEACHERS, REFER TO GENERAL NOTES FOR DETAILS



CANOGA PARK HIGH SCHOOL
EXTERIOR IMPROVEMENT PLAN DIAGRAM

SCALE: 1/32" = 1' - 0"

0' 25' 50' 75' 100' 150' 200'

APPENDIX B

Arborist Report

Carlberg ASSOCIATES

Horticulturists and
Registered Consulting
ARBORISTS

CITY OF LOS ANGELES TREE INVENTORY REPORT
CANOGA PARK HIGH SCHOOL
6850 TOPANGA CANYON BOULEVARD
LOS ANGELES, CALIFORNIA 91303

SUBMITTED TO:

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ISA CERTIFIED ARBORIST #WE 0575A
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JULY 13, 2022
(REV. SEPTEMBER 27, 2022)

TREE INVENTORY REPORT

TABLE OF CONTENTS

COVER LETTER 1

PROJECT RECOMMENDATIONS 2

TABLE 1 – TREE INVENTORY DATA 4

EXHIBIT A – AERIAL IMAGE OF SUBJECT PROPERTY 31

EXHIBIT B – REDUCED COPY OF TREE LOCATION EXHIBIT 32

EXHIBIT C – TREE PHOTOGRAPHS 41

HEALTH AND STRUCTURE GRADE DEFINITIONS 73

ARBORIST DISCLOSURE STATEMENT 75

RESUME 76

Carlberg ASSOCIATES

Horticulturists and
Registered Consulting
ARBORISTS

July 13, 2022 (Rev. September 27, 2022)

Hongjoo Kim, ASLA, Principal
Hongjoo Kim Landscape Architects, Inc.
714 Olympic Blvd., Suite 700
Los Angeles, California 90015

Re: Canoga Park High School, 6850 Topanga Canyon Blvd., Los Angeles, California 91303
City of Los Angeles Tree Inventory Report

Dear Mr. Kim,

This report addresses our office's site visits on June 13 and June 14, 2022, to Canoga Park High School located at 6850 Topanga Canyon Boulevard in the Canoga Park area of Los Angeles, California. Carlberg Associates was retained to visit the property, inventory all qualifying campus trees, and prepare a photo-documented tree report in accordance with the Los Angeles Unified School District's (LAUSD) report requirements. Trees and shrubs considered protected by the City of Los Angeles' Tree Preservation Ordinance No. 186,873 (Chapter IV, Article 6 of the Los Angeles Municipal Code) are coast live oak, western sycamore, Southern California black walnut, California bay laurel, Mexican elderberry and toyon trunk diameters (measured at 4.5 feet above grade) of 4 inches or greater. They, along with non-protected trees with trunk diameters of four inches and greater comprise the tree inventory.

The table on the following pages sets forth the data for the two hundred and sixty-six (266) inventoried trees: two hundred and sixty-four (264) are on the campus proper, and there are two (2) trees on neighboring private properties whose canopies overhang the project site. ***Twenty-six (26) trees are considered protected by the City of Los Angeles' Tree Preservation Ordinance No. 186,873.*** By virtue of their trunk diameter size of eight inches and greater, 211 private property trees are considered 'significant' as defined by the City's Planning Division.

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PROJECT RECOMMENDATIONS

In my professional opinion, the project can proceed if the following conditions are met:

- Missing tree tags need to be replaced prior to demolition or commencement of any other site work.
- Any demolition, digging, excavating, or trenching within the protected zone of any protected tree to remain shall be monitored by a qualified arborist.
- The arborist report is part of the set of plans given to the contractor. The contractor should be familiar with the specific instructions and responsibilities pertaining to protected trees. It is recommended the District's arborist (or designee) meet with the contractor prior to commencement of construction on the project.
- Exposed roots to remain should be covered with wet burlap, carpet remnants or other material that may be kept moist until soil can be replaced.
- Any pruning, including dead wooding, should be performed in compliance with the latest ANSI pruning standards by an ISA certified arborist (or ISA certified tree worker).
- Tree pruning, and removals should occur outside of nesting bird season. If pruning and / or removals must occur during nesting bird season, all precautions related to State and Federal laws that protect nesting birds shall be adhered to.
- Hand-held equipment should be used for trenching for foundations, irrigation, and utility placement to avoid shattering and tearing roots. If feasible, substantial roots (those greater than 2 inches in diameter) shall be bridged or tunneled-under to avoid impacts to the root system.
- Equipment, materials, and vehicles shall not be stored, parked, or operated within the protected zone of the protected trees to remain.
- Equipment with overhead exhaust shall avoid the remaining trees to the extent feasible and shall not be placed in such a manner as to scorch overhanging branches or foliage of the remaining protected trees. Smaller equipment shall be used in such areas as deemed necessary by the District's arborist (or designee).
- Five (5) foot high chain link fencing shall be installed around remaining trees within the areas of potential impact. Trees to remain should be fenced to the limits of their driplines or to the maximum limits that existing hardscape to remain allows.
- A 'Warning' sign is prominently displayed on each protective enclosure. The sign will be a minimum of 8.5 inches x 11 inches and clearly state the following:

TREE PROTECTION ZONE THIS FENCE SHALL NOT BE REMOVED Project Arborist: Carlberg Associates 310.451.4804 or 626.428.5072

Please feel welcome to contact me at our Santa Monica office if you have any immediate questions or concerns.

Respectfully submitted,

Cy Carlberg, Registered Consulting Arborist
Principal, Carlberg Associates



TABLE 1 – TREE INVENTORY DATA

Tree #	Common Name	Botanical Name	Diameter at 4.5 feet (DBH)* in inches	Height (feet)	Canopy Spread (N/E/S/W) in feet	Health	Structure	Protected or Significant Tree	Comments
1	she oak	*Casuarina cunninghamiana*	26.7	40	18/15/18/20	B	B	Significant	some top and interior dieback, HOB, MPE
2	she oak	*Casuarina cunninghamiana*	29.5	40	13/17/20/15	B	B	Significant	some top and interior dieback, HOB, MPE
3	she oak	*Casuarina cunninghamiana*	30.6	40	21/12/20/24	B	B	Significant	MPE, minor dieback
4	she oak	*Casuarina cunninghamiana*	30.8	40	25/15/25/15	B	B	Significant	some top and interior dieback, HOB, MPE
5	she oak	*Casuarina cunninghamiana*	27.9	35	15/12/15/12	B-	B-	Significant	MPE, HOB, a bit sparse, EG
6	she oak	*Casuarina cunninghamiana*	24.8	35	15/10/17/15	B	B	Significant	some top and interior dieback, HOB, MPE
7	she oak	*Casuarina cunninghamiana*	27.1	35	10/10/14/12	B	B	Significant	some top and interior dieback, HOB, MPE
8	she oak	*Casuarina cunninghamiana*	26.4	40	10/10/12/12	B	B	Significant	tear with exudation at base up to 6 feet, roots cut for sidewalk, MPE
9	she oak	*Casuarina cunninghamiana*	32	40	14/15/18/14	B+	B	Significant	MPE, minor dieback
10	Queensland pittosporum	*Auranticarpa rhombifolia*	9.5, 10.2	28	10/12/10/10	B+	B+	Significant	pruned for building clearance

Tree #	Common Name	Botanical Name	Diameter at 4.5 feet (DBH)* in inches	Height (feet)	Canopy Spread (N/E/S/W) in feet	Health	Structure	Protected or Significant Tree	Comments
11	Queensland pittosporum	*Auranticarpa rhombifolia*	11.5	22	6/8/10/12	B	B	Significant	pruned for building clearance, diameter estimated due to no access
12	juniper	*Juniperus sp.*	9	28	3/10/15/5	A-	B+	Significant	leans south, cavity at base, MPE, pruned for building clearance
13	juniper	*Juniperus sp.*	4.7, 10.2, 6.3, 11.8	25	13/5/20/20	A-	B	Significant	multiple trunks cut, leans southwest, minor interior dieback, MPE, pruned for building clearance
14	valley oak	*Quercus lobata*	13.3	25	20/17/21/24	A	B+	Protected	minor dieback
15	Italian stone pine	*Pinus pinea*	48.1	48	36/30/30/26	A	B	Significant	diameter measured at 4 feet, large limbs cut, MPE, EG, HOB, some cross branches
16	valley oak	*Quercus lobata*	13.8	15	21/16/6/25	B	B-	Protected	canopy raised, MPE
17	valley oak	*Quercus lobata*	17.7	22	27/20/15/20	B	B	Protected	some interior dieback, MPE, EG, small leaves
18	olive	*Olea europaea*	16.3	18	0/0/0/18	D	D	Significant	additional 13 inch dead trunk, extensive dieback, only live canopy to west, in decline, recommended removal and replace

Tree #	Common Name	Botanical Name	Diameter at 4.5 feet (DBH)* in inches	Height (feet)	Canopy Spread (N/E/S/W) in feet	Health	Structure	Protected or Significant Tree	Comments
19	olive	*Olea europaea*	23.5, 21.7, 21.6, 22.1	30	25/25/32/37	A	B	Significant	SS, minor interior dieback, MPE
20	western redbud	*Cercis occidentalis*	2.9, 2.2, 2.4, 3.4	12	10/3/8/14	B-	B-	Significant	shaded out by adjacent olive tree
21	olive	*Olea europaea*	23, 25, 25, 27	30	30/26/36/33	A	B	Significant	bees, diameters estimated, SS, minor interior dieback, MPE
22	western redbud	*Cercis occidentalis*	2.2, 2.8	12	3/6/8/7	B	B	No	partially shaded out, one trunk cut at base
23	Mt. Atlas mastic tree	*Pistacia atlantica*	5.4, 4.5, 5.6	15	18/7/12/18	A	B	Significant	in raised planter, MPE
24	Canary Island Pine	*Pinus canariensis*	15.8	40	11/8/8/10	B+	B+	Significant	EG, minor dieback
25	western redbud	*Cercis occidentalis*	5.3, 6.5, 5.5	18	15/8/10/15	A	B	Significant	diameters measured at 1.5 ft., codoms qt base
26	Canary Island Pine	*Pinus canariensis*	24.4	55	15/12/18/21	B-	B+	Significant	MPE, minor dieback, water stressed
27	Canary Island Pine	*Pinus canariensis*	20.9	55	15/12/18/14	C	B+	Significant	MPE, moderate dieback, pruned for building clearance, water stressed
28	aleppo pine	*Pinus halepensis*	34	50	8/28/38/21	A-	B-	Significant	leans south, pruned for building clearance, MPE
29	aleppo pine	*Pinus halepensis*	43.9	45	30/20/20/28	A	B	Significant	diameter measured at 3 feet, MPE

Tree #	Common Name	Botanical Name	Diameter at 4.5 feet (DBH)* in inches	Height (feet)	Canopy Spread (N/E/S/W) in feet	Health	Structure	Protected or Significant Tree	Comments
30	American sweetgum	*Liquidambar styraciflua*	13.2	28	13/11/13/10	B+	B-	Significant	MPE, some topping cuts, pruned for building clearance
31	shamel ash	*Fraxinus uhdei*	45.7	50	40/27/36/32	A-	B	Significant	topping cuts, sidewalk uplift, EG, minor dieback throughout, MPE
32	shamel ash	*Fraxinus uhdei*	49.8	50	35/32/36/33	A-	B	Significant	topping cuts, sidewalk uplift, EG, minor dieback throughout, MPE, large cavity with decay at codoms
33	coast live oak	*Quercus agrifolia*	2, 2.2	12	8/7/5/7	A	B+	Protected	consider relocating due to lack of space
34	holly oak	*Quercus ilex*	6.5	15	15/8/10/10	C+	B-	No	diameter estimated due to no access, a bit sparse
35	holly oak	*Quercus ilex*	8	15	17/14/12/12	B+	B	Significant	diameter estimated due to no access
36	holly oak	*Quercus ilex*	14.6	25	15/18/21/22	B	B+	Significant	minor dieback
37	holly oak	*Quercus ilex*	17.8	25	20/15/12/22	B	B	Significant	MPE, some dieback throughout
38	holly oak	*Quercus ilex*	14.7	22	6/13/12/14	B	B-	Significant	trunk leans northwest, MPE, some dieback throughout

Tree #	Common Name	Botanical Name	Diameter at 4.5 feet (DBH)* in inches	Height (feet)	Canopy Spread (N/E/S/W) in feet	Health	Structure	Protected or Significant Tree	Comments
39	holly oak	*Quercus ilex*	12.3	25	18/15/10/18	C+	B	Significant	pruned for building clearance, moderate dieback, MPE
40	holly oak	*Quercus ilex*	12.3	25	20/20/12/15	B	B	Significant	pruned for building clearance, MPE, minor dieback
41	coast live oak	*Quercus agrifolia*	35.1	30	35/24/35/25	B	B-	Protected	Large tears in canopy; minor dieback; MPE
42	coast live oak	*Quercus agrifolia*	40.9	35	28/28/43/30	A-	B+	Protected	MPE
43	coast live oak	*Quercus agrifolia*	17.4	20	15/17/18/18	B-	B-	Protected	Bulge at base, possible Ganoderma wood decay
44	chitalpa	*x Chitalpa tashkentensis*	11.5	18	6/7/18/16	A	B	Significant	trunk leans southwest, EG
45	chitalpa	*x Chitalpa tashkentensis*	9.2	18	16/10/15/12	A	B	Significant	trunk has slight lean to northeast, EG, pruned for building clearance, SS
46	Modesto ash	*Fraxinus velutina 'Modesto'*	23.7	30	21/18/12/10	A-	B+	Significant	one large trunk cut, MPE
47	shamel ash	*Fraxinus uhdei*	23.5	35	24/25/32/18	B	B	Significant	some dieback throughout, MPE, exposed roots, EG

Tree #	Common Name	Botanical Name	Diameter at 4.5 feet (DBH)* in inches	Height (feet)	Canopy Spread (N/E/S/W) in feet	Health	Structure	Protected or Significant Tree	Comments
48	Modesto ash	*Fraxinus velutina 'Modesto'*	22.3	28	18/15/28/21	B-	B-	Significant	some top dieback and dieback throughout, MPE, small GR
49	Modesto ash	*Fraxinus velutina 'Modesto'*	17.9	30	21/20/21/18	B	B	Significant	some dieback throughout, MPE, exposed roots, EG
50	evergreen pear	*Pyrus kawakamii*	12.2	20	17/13/11/6	B	B-	Significant	pruned for building clearance, a lot of EG, MPE, SS
51	evergreen pear	*Pyrus kawakamii*	12.3	20	5/18/16/5	B	B-	Significant	pruned for building clearance, a lot of EG, MPE, SS
52	Canary Island Pine	*Pinus canariensis*	28.5	50	22/17/19/25	B	B	Significant	minor dieback, MPE, HOB
53	crape myrtle	*Lagerstroemia indica*	6.8	20	12/12/12/12	B+	B	No	tear on trunk
54	crape myrtle	*Lagerstroemia indica*	4.9, 5.6, 6.1	20	8/13/20/13	B+	B	Significant	codoms at base
55	crape myrtle	*Lagerstroemia indica*	5.5, 6.1	20	12/10/10/11	A-	B	Significant	codoms at base, one trunk cut
56	crape myrtle	*Lagerstroemia indica*	4.9, 6.5	20	10/12/14/12	B+	B	Significant	tears on both trunks
57	olive	*Olea europaea*	15.6	30	18/15/15/17	A-	B	Significant	cavity at base, minor dieback
58	aleppo pine	*Pinus halepensis*	11.3	22	18/5/4/12	A	B-	Significant	unbalanced to north
59	aleppo pine	*Pinus halepensis*	31.4	55	15/25/28/24	A	B	Significant	concave at base, possible GR, MPE

Tree #	Common Name	Botanical Name	Diameter at 4.5 feet (DBH)* in inches	Height (feet)	Canopy Spread (N/E/S/W) in feet	Health	Structure	Protected or Significant Tree	Comments
60	holly oak	*Quercus ilex*	23.4	32	18/18/16/17	B-	B	Significant	a bit sparse, MPE, EG
61	valley oak	*Quercus lobata*	7.2	18	13/10/18/15	B	B+	Protected	minor dieback
62	American sweetgum	*Liquidambar styraciflua*	14.1	35	15/15/11/10	A-	B+	Significant	MPE, EG
63	Queensland pittosporum	*Auranticarpa rhombifolia*	10.9	35	12/8/6/8	B	B+	Significant	pruned for building clearance
64	Queensland pittosporum	*Auranticarpa rhombifolia*	9.7	30	10/7/7/7	B+	B+	Significant	large tear on trunk, pole at base, pruned for building clearance
65	fern pine	*Afrocarpus falcatus*	6.6, 7.9	28	15/8/12/15	B	B	Significant	pruned for building clearance
66	Canary Island Pine	*Pinus canariensis*	23.7	50	12/13/15/15	A-	B	Significant	MPE, EG
67	toyon	*Heteromeles arbutifolia*	1.8, 1.8, 2.6, 1.1, 1.1	8	4/4/4/4	A	B+	Protected	in cutout planter
68	American sweetgum	*Liquidambar styraciflua*	8.2	16	7/0/0/13	C-	C-	Significant	sparse, topped, EG, unbalanced to west, MPE
69	American sweetgum	*Liquidambar styraciflua*	11.5	35	11/6/10/15	B+	B	Significant	EG, MPE
70	weeping bottlebrush	*Callistemon viminalis*	18.1	35	20/13/11/27	B	B	Significant	MPE, HOB, some tears
71	weeping bottlebrush	*Callistemon viminalis*	19.1	30	6/22/27/20	B	B	Significant	MPE, HOB, some tears, trunk leans south
72	crape myrtle	*Lagerstroemia indica*	4.8	20	5/10/11/10	B	B+	No	pruned for building clearance, a bit sparse

Tree #	Common Name	Botanical Name	Diameter at 4.5 feet (DBH)* in inches	Height (feet)	Canopy Spread (N/E/S/W) in feet	Health	Structure	Protected or Significant Tree	Comments
73	crape myrtle	*Lagerstroemia indica*	7	20	5/11/14/14	A	B+	No	pruned for building clearance
74	crape myrtle	*Lagerstroemia indica*	6.7	20	5/8/9/10	B	B+	No	pruned for building clearance, a bit sparse
75	coast redwood	*Sequoia sempervirens*	23	60	15/14/14/12	A-	B+	Significant	SS, spiked
76	crape myrtle	*Lagerstroemia indica*	5.7	20	3/10/12/8	B	B+	No	pruned for building clearance, a bit sparse
77	crape myrtle	*Lagerstroemia indica*	5.5	20	3/8/13/8	B	B+	No	pruned for building clearance, a bit sparse
78	weeping bottlebrush	*Callistemon viminalis*	16.9	32	12/8/16/13	B-	B-	Significant	some dieback throughout, MPE, pruned for building clearance
79	weeping bottlebrush	*Callistemon viminalis*	19.8	32	13/20/16/10	B-	B	Significant	some dieback throughout, MPE, pruned for building clearance
80	Italian stone pine	*Pinus pinea*	34.7	45	27/34/26/30	A-	B+	Significant	HOB, MPE
81	Chinese elm	*Ulmus parvifolia*	21	40	25/28/21/27	A	B	Significant	trunk has slight lean to northeast, MPE, SS, EG
82	shoestring acacia	*Acacia stenophylla*	7.3, 10.3	25	0/11/14/11	B	B	Significant	in raised planter, trunks lean south, pole stakes at base need correcting or removing
83	Afghan pine	*Pinus brutia*	23.5	55	13/20/27/18	A	B+	Significant	MPE

Tree #	Common Name	Botanical Name	Diameter at 4.5 feet (DBH)* in inches	Height (feet)	Canopy Spread (N/E/S/W) in feet	Health	Structure	Protected or Significant Tree	Comments
84	coast redwood	*Sequoia sempervirens*	8.6	30	9/9/8/7	B+	B+	Significant	growing into canopy of adjacent pine
85	jacaranda	*Jacaranda mimosifolia*	24.6	40	25/28/30/28	B+	B	Significant	some exposed roots, MPE, EG throughout
86	Canary Island Pine	*Pinus canariensis*	22.3	45	10/14/18/25	B	B+	Significant	pruned for building clearance, MPE
87	Canary Island Pine	*Pinus canariensis*	28.1	55	23/27/24/23	B+	B+	Significant	pruned for building clearance, MPE
88	umbrella tree	*Heptapleurum actinophyllum*	5.5, 5, 4.8	20	15/16/7/6	A	B	Significant	MPE, pruned for building clearance, partially shaded out
89	olive	*Olea europaea*	12.3, 16.3	22	15/15/18/21	A-	B+	Significant	in raised planter, MPE
90	she oak	*Casuarina cunninghamiana*	27.3	40	20/8/20/12	B-	B	Significant	MPE, HOB, a bit sparse, EG
91	she oak	*Casuarina cunninghamiana*	28.3	40	18/18/24/18	B	B	Significant	MPE, HOB, a bit sparse, EG
92	Hollywood juniper	*Juniperus chinensis 'Torulosa'*	7.6	15	7/6/7/5	A	B	No	one trunk cut
93	Hollywood juniper	*Juniperus chinensis 'Torulosa'*	6.8	15	7/2/6/5	A-	B+	No	one trunk is dead and cut at 3 feet
94	Hollywood juniper	*Juniperus chinensis 'Torulosa'*	3.5, 7.4, 2.8	15	6/3/7/6	A-	B	Significant	codoms at base, one large parent limb cut at 7 feet, SS

Tree #	Common Name	Botanical Name	Diameter at 4.5 feet (DBH)* in inches	Height (feet)	Canopy Spread (N/E/S/W) in feet	Health	Structure	Protected or Significant Tree	Comments
95	Hollywood juniper	*Juniperus chinensis 'Torulosa'*	14.2	20	13/7/12/18	B+	B	Significant	pruned for building clearance
96	tree of heaven	*Ailanthus altissima*	5.5, 8	20	12/10/10/10	A-	B	Significant	trunks in between storage units, diameters estimated
97	xylosma	*Xylosma congesta*	9.8	28	16/15/11/6	A-	B+	Significant	pruned for building clearance
98	Chinese elm	*Ulmus parvifolia*	27.8	40	41/45/20/27	B+	B+	Significant	codoms at 9 feet, minor dieback
99	rubber tree	*Ficus elastica*	7.1	25	10/14/14/5	B	B	No	shaded out, pruned for building clearance, one trunk cut, MPE
100	Chinese elm	*Ulmus parvifolia*	18.6	35	25/20/24/15	B	B	Significant	MPE, pruned for building clearance, some dieback throughout
101	umbrella tree	*Heptapleurum actinophyllum*	3.5, 4.6, 5.8	20	6/15/16/7	B+	B	Significant	shaded out, pruned for building clearance
102	weeping bottlebrush	*Callistemon viminalis*	10.9	28	10/14/11/8	B	B-	Significant	partially shaded out, pruned for building clearance
103	Chinese elm	*Ulmus parvifolia*	20.8	35	20/20/27/18	B+	B-	Significant	trunk leans southeast, MPE
104	carrotwood	*Cupaniopsis anacardioides*	2.5, 4.8, 4.1	18	6/0/14/15	A-	B	Significant	codoms at base, shaded out

Tree #	Common Name	Botanical Name	Diameter at 4.5 feet (DBH)* in inches	Height (feet)	Canopy Spread (N/E/S/W) in feet	Health	Structure	Protected or Significant Tree	Comments
105	Chinese elm	*Ulmus parvifolia*	15.9	35	16/23/18/13	B+	B	Significant	HOB, MPE, large stones at base
106	Moreton Bay fig	*Ficus macrophylla*	7.1, 9.2	30	12/12/10/12	A-	B	Significant	partially shaded out, MPE, codoms at 4 feet
107	Italian cypress	*Cupressus sempervirens*	11	28	5/5/5/5	B	B	Significant	partially shaded out, lower canopy dieback
108	Italian cypress	*Cupressus sempervirens*	9.3	25	4/4/4/4	B	B	Significant	partially shaded out, lower canopy dieback
109	Italian cypress	*Cupressus sempervirens*	6.9	25	4/4/4/4	B	B	No	shaded out, lower canopy dieback
110	glossy leaf privet	*Ligustrum lucidum*	7.7	20	16/7/14/15	B+	B	No	tarp at base, partially shaded out
111	Moreton Bay fig	*Ficus macrophylla*	6.7, 7.6, 11.2	28	20/20/18/19	A	B	Significant	partially shaded out by adjacent elm, codoms at base
112	Chinese elm	*Ulmus parvifolia*	16.6, 17.9	35	35/27/34/22	B	B	Significant	codoms at 4 feet, MPE, HOB, minor dieback
113	tree of heaven	*Ailanthus altissima*	11.4	30	5/16/24/8	B+	B-	Significant	growing against fence
114	tree of heaven	*Ailanthus altissima*	7	25	0/0/15/0	B-	B-	No	leans south, embedded into fence
115	tree of heaven	*Ailanthus altissima*	10.4	25	10/0/8/12	C-	C-	Significant	one trunk dead (9.2 inch), sparse
116	tree of heaven	*Ailanthus altissima*	16.2	25	32/23/16/16	B-	B-	Significant	moderate dieback
117	Mexican fan palm	*Washingtonia robusta*	10 (BT-50')	56	7/7/7/7	A-	B	Significant	some dead fronds

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118	tree of heaven	*Ailanthus altissima*	2.2, 2.5, 3.3, 5.3, 15	30	12/18/15/18	B	B	Significant	codoms at base
119	Mexican fan palm	*Washingtonia robusta*	10 (BT-30')	36	7/7/7/7	A-	B+	Significant	some dead fronds
120	Mexican fan palm	*Washingtonia robusta*	10 (BT-30')	36	7/7/7/7	A-	B+	Significant	some dead fronds
121	Mexican fan palm	*Washingtonia robusta*	16 (BT-13')	20	7/7/7/7	A-	B+	Significant	some dead fronds
122	Mexican fan palm	*Washingtonia robusta*	10, 10, 10 (BT-4', 8', 13')	20	8/6/8/8	A-	B+	Significant	some dead fronds
123	tree of heaven	*Ailanthus altissima*	4.5, 4.7, 5.4, 7	25	20/20/12/8	B+	B+	Significant	against fence, diameters estimated due to no access
124	tree of heaven	*Ailanthus altissima*	5.2, 5.1, 4.8, 5.2, 3.3, 3.5	25	17/13/12/8	A-	B+	Significant	against fence, diameters estimated due to no access, cut palm adjacent at base
125	tree of heaven	*Ailanthus altissima*	4.5, 2.8, 2.7	22	8/0/12/14	A-	B+	Significant	against fence, diameters estimated due to no access
126	Mexican fan palm	*Washingtonia robusta*	10 (BT-45')	50	6/6/6/6	A	B	Significant	against fence, diameters estimated due to no access

Tree #	Common Name	Botanical Name	Diameter at 4.5 feet (DBH)* in inches	Height (feet)	Canopy Spread (N/E/S/W) in feet	Health	Structure	Protected or Significant Tree	Comments
127	tree of heaven	*Ailanthus altissima*	11.5, 10.5, 11.7, 15	32	20/18/24/23	A-	B+	Significant	small fan palm adjacent at base, tree against fence, overhangs LA River
128	Chinese pistache	*Pistacia chinensis*	7.5, 4.6, 5.2, 7.6, 4.2, 4.3, 3.3, 4.2	25	17/20/21/25	A	B	Significant	embedded in fence, codoms at base, overhangs LA River
129	tree of heaven	*Ailanthus altissima*	8.6	22	10/8/10/12	A	B+	Significant	against fence
130	Mexican fan palm	*Washingtonia robusta*	12 (BT-20')	25	7/7/7/7	A	A-	Significant	adjacent to LA River fence
131	Mexican fan palm	*Washingtonia robusta*	12 (BT-25')	30	7/7/7/7	A	A-	Significant	adjacent to LA River fence
132	Mexican fan palm	*Washingtonia robusta*	12, 12 (BT-15, 17')	22	7/9/7/9	A	B+	Significant	
133	Mexican fan palm	*Washingtonia robusta*	10 (BT-50')	56	7/7/7/7	A	B+	Significant	some dead fronds
134	Mexican fan palm	*Washingtonia robusta*	10 (BT-30')	36	7/7/7/7	A	B+	Significant	some dead fronds
135	Mexican fan palm	*Washingtonia robusta*	10 (BT-35')	40	7/7/7/7	A	B+	Significant	some dead fronds
136	toyon	*Heteromeles arbutifolia*	4.7, 5.3, 5.5	16	12/11/8/15	A	B	Protected	ants
137	toyon	*Heteromeles arbutifolia*	5.2	12	4/6/10/8	C-	D	Protected	diameter measured at 2.5 feet, dead branches

Tree #	Common Name	Botanical Name	Diameter at 4.5 feet (DBH)* in inches	Height (feet)	Canopy Spread (N/E/S/W) in feet	Health	Structure	Protected or Significant Tree	Comments
									throughout, extensive dieback
138	toyon	*Heteromeles arbutifolia*	4.7, 5.6	15	5/7/13/12	B	B	Protected	one trunk cut, SS, minor decay at base, codoms at base
139	toyon	*Heteromeles arbutifolia*	4.3, 5.9, 6.3	16	11/10/12/13	A-	B+	Protected	codoms at base, one trunk cut
140	coast redwood	*Sequoia sempervirens*	24	40	12/12/12/10	B	B	Significant	canopy growing into adjacent palm, some brown throughout, SS, EG
141	Mexican fan palm	*Washingtonia robusta*	10 (BT-30')	36	7/7/7/7	A-	B+	Significant	canopy growing into adjacent redwood, some dead fronds
142	toyon	*Heteromeles arbutifolia*	4.7	15	9/10/8/8	B+	B-	Protected	mechanical damage on multiple areas of trunk
143	coast redwood	*Sequoia sempervirens*	11.5	25	7/7/7/7	B	B	Significant	some minor browning throughout, SS, EG
144	coast redwood	*Sequoia sempervirens*	13.3	28	9/9/9/9	B	B	Significant	some minor browning throughout, SS, EG
145	coast redwood	*Sequoia sempervirens*	5.4, 31.2	35	14/10/15/12	B+	B	Significant	some minor browning throughout, SS, EG, one cut trunk

Tree #	Common Name	Botanical Name	Diameter at 4.5 feet (DBH)* in inches	Height (feet)	Canopy Spread (N/E/S/W) in feet	Health	Structure	Protected or Significant Tree	Comments
146	coast redwood	*Sequoia sempervirens*	21.8	35	9/9/9/9	C-	C+	Significant	moderate browning throughout, SS, EG, top dieback
147	coast redwood	*Sequoia sempervirens*	2.4, 22.8	30	9/10/9/10	B-	B-	Significant	some minor browning throughout, SS, EG
148	coast redwood	*Sequoia sempervirens*	2.5, 6.8, 7.6, 12.2, 2.1, 11.8, 4.6	25	14/15/12/14	A-	B+	Significant	SS, EG, codoms at base
149	coast redwood	*Sequoia sempervirens*	5, 8.8, 39.4	32	12/12/12/12	C+	C	Significant	moderate browning throughout, SS, EG, top dieback, two smaller trunks are about 2 feet from main trunk, topped
150	coast redwood	*Sequoia sempervirens*	13	25	9/10/10/10	B+	B+	Significant	some minor browning throughout, SS, EG
151	coast redwood	*Sequoia sempervirens*	5.5	18	6/6/6/6	B-	B	No	some minor browning throughout, EG
152	coast redwood	*Sequoia sempervirens*	13.1	28	9/9/9/9	B	B	Significant	some minor browning throughout, EG
153	coast redwood	*Sequoia sempervirens*	15.1	32	10/12/12/12	B+	B	Significant	some minor browning throughout, EG
154	coast redwood	*Sequoia sempervirens*	6	16	6/6/6/6	B	B	No	some minor browning throughout, EG

Tree #	Common Name	Botanical Name	Diameter at 4.5 feet (DBH)* in inches	Height (feet)	Canopy Spread (N/E/S/W) in feet	Health	Structure	Protected or Significant Tree	Comments
155	coast redwood	*Sequoia sempervirens*	24.5	30	7/8/7/7	C	C-	Significant	moderate browning throughout, SS, EG, top dieback, topped
156	coast redwood	*Sequoia sempervirens*	3.4, 5.1	15	5/7/7/5	B+	B+	Significant	some minor browning throughout, EG
157	coast redwood	*Sequoia sempervirens*	8	20	7/7/8/8	B	B	Significant	some minor browning throughout, EG
158	coast redwood	*Sequoia sempervirens*	11.6	25	7/7/9/10	B+	B	Significant	some minor browning throughout, EG
159	coast redwood	*Sequoia sempervirens*	7.4, 31	35	10/15/12/15	C+	C	Significant	moderate browning throughout, SS, EG, top dieback
160	holly leaf cherry	*Prunus ilicifolia*	4.8, 4.4	15	4/10/12/12	B	B	Significant	
161	kurrajong	*Brachychiton populneus*	12, 13	20	14/13/18/18	A-	B	Significant	
162	Mexican fan palm	*Washingtonia robusta*	10 (BT-45')	50	6/6/6/6	A-	B	Significant	some dead fronds
163	Mexican fan palm	*Washingtonia robusta*	10 (BT-45')	50	6/6/6/6	A-	B	Significant	some dead fronds
164	Mexican fan palm	*Washingtonia robusta*	10 (BT-45')	50	6/6/6/6	A-	B	Significant	some dead fronds
165	kurrajong	*Brachychiton populneus*	11.7, 12.1	20	16/13/15/14	A	B+	Significant	

Tree #	Common Name	Botanical Name	Diameter at 4.5 feet (DBH)* in inches	Height (feet)	Canopy Spread (N/E/S/W) in feet	Health	Structure	Protected or Significant Tree	Comments
166	toyon	*Heteromeles arbutifolia*	2.5, 3, 2, 2.5, 2, 4 2.5	18	10/10/10/10	A	B	Protected	diameters measured at base, multiple additional trunks under 2 inches
167	toyon	*Heteromeles arbutifolia*	3, 2, 2.5, 2.5, 3.5, 3, 2, 2, 2, 2.5, 2.5, 4.5	16	10/10/10/10	A	B	Protected	diameters measured at base, multiple additional trunks under 2 inches
168	Mexican fan palm	*Washingtonia robusta*	10, 10 (BT-30, 30')	36	7/12/7/12	A-	B+	Significant	codoms at base
169	Canary Island date palm	*Phoenix canariensis*	20 (BT-8')	18	15/15/15/15	A-	B+	Significant	partially shaded out, adjacent to fan palm at base
170	toyon	*Heteromeles arbutifolia*	6.8, 2, 2.5, 2.5, 2.5, 4.5, 3.8, 2.7, 3.6, 3.2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2	18	14/12/15/13	A	B+	Protected	diameters measured low, multiple additional trunks under 2 inches
171	shamel ash	*Fraxinus uhdei*	4, 3.8, 3, 3.2, 3.5	20	11/10/12/10	A-	B	Significant	growing in middle of toyon
172	toyon	*Heteromeles arbutifolia*	2, 2.3, 3.4, 3	12	7/7/10/11	B+	B	Protected	diameters measured low, multiple additional

Tree #	Common Name	Botanical Name	Diameter at 4.5 feet (DBH)* in inches	Height (feet)	Canopy Spread (N/E/S/W) in feet	Health	Structure	Protected or Significant Tree	Comments
									trunks under 2 inches, partially shaded out
173	toyon	*Heteromeles arbutifolia*	3.5, 2.8, 3.2, 2.8, 2	15	10/10/10/10	A-	B+	Protected	diameters measured low, multiple additional trunks under 1 inch
174	chitalpa	*x Chitalpa tashkentensis*	12.4	25	18/12/17/15	B+	B	Significant	mechanical damage on trunk, minor dieback, MPE
175	chitalpa	*x Chitalpa tashkentensis*	8.3	25	18/6/10/12	B+	B	Significant	mechanical damage on trunk, minor dieback, MPE
176	chitalpa	*x Chitalpa tashkentensis*	9	20	22/17/10/5	B+	B	Significant	mechanical damage on trunk, minor dieback, MPE
177	western redbud	*Cercis occidentalis*	4.5, 7.1, 2.1, 4.8, 9.8	20	12/12/12/8	B	B	Significant	diameters measured low, codoms at base, minor dieback, EG, MPE
178	western redbud	*Cercis occidentalis*	4.6, 5.3, 3.6, 5, 4	20	15/8/7/11	B	B	Significant	diameters measured low, codoms at base, minor dieback, EG, MPE
179	Mexican fan palm	*Washingtonia robusta*	~14 (BT-10')	16	6/6/6/6	A-	B+	Significant	some dead fronds
180	Italian cypress	*Cupressus sempervirens*	14.1	40	4/4/4/4	A	B+	Significant	

Tree #	Common Name	Botanical Name	Diameter at 4.5 feet (DBH)* in inches	Height (feet)	Canopy Spread (N/E/S/W) in feet	Health	Structure	Protected or Significant Tree	Comments
181	arborvitae	*Thuja occidentalis*	2.5, 2.4, 4.7, 3.5, 3, 2, 3.3, 3.3, 2, 2.2, 5.5, 3.1, 2	15	12/12/12/12	B+	B	Significant	SS, growing into canopy of adjacent cypress
182	Italian cypress	*Cupressus sempervirens*	17.4	40	4/4/4/4	A	B+	Significant	diameter measured low at 3 feet
183	coast live oak	*Quercus agrifolia*	14.5, 15	22	18/22/26/20	A	B	Protected	trunk growing into storage container - take care if removing container, canopy resting on structure to south, tree overhangs easement to north, small fan palm growing at base
184	common fig	*Ficus carica*	5.5	18	8/8/8/8	A-	B	No	in between fence and storage container, overhangs easement to north
185	Indian laurel fig	*Ficus microcarpa*	> 8	16	N/A	A	B+	Significant	hedge cut, in a row
186	Indian laurel fig	*Ficus microcarpa*	> 8	16	N/A	A	B+	Significant	hedge cut, in a row
187	Indian laurel fig	*Ficus microcarpa*	> 8	16	N/A	A	B+	Significant	hedge cut, in a row
188	Indian laurel fig	*Ficus microcarpa*	> 8	16	N/A	A	B+	Significant	hedge cut, in a row
189	Indian laurel fig	*Ficus microcarpa*	> 8	16	N/A	A	B+	Significant	hedge cut, in a row
190	Indian laurel fig	*Ficus microcarpa*	> 8	16	N/A	A	B+	Significant	hedge cut, in a row

Tree #	Common Name	Botanical Name	Diameter at 4.5 feet (DBH)* in inches	Height (feet)	Canopy Spread (N/E/S/W) in feet	Health	Structure	Protected or Significant Tree	Comments
191	Indian laurel fig	*Ficus microcarpa*	> 8	20	N/A	A	B+	Significant	hedge cut, in a row
192	Indian laurel fig	*Ficus microcarpa*	> 8	20	N/A	A	B+	Significant	hedge cut, in a row
193	Indian laurel fig	*Ficus microcarpa*	6.4	22	8/10/15/15	B	B	No	partially shaded out, MPE, minor mechanical damage on trunk
194	mulberry	*Morus alba*	18	24	23/13/15/13	B+	B-	Significant	MPE, decay in upper canopy, EG
195	mulberry	*Morus alba*	12, 13, 13	25	18/15/20/25	A	B	Significant	diameters estimated due to no access, MPE, EG
196	camphor	*Cinnamomum camphora*	2.1, 2.3, 3	18	8/5/5/10	A-	B	No	growing against fence, SS, volunteers
197	Chinese elm	*Ulmus parvifolia*	2.3, 3.7, 2.6, 2.6	18	12/15/15/15	A-	B	Significant	growing against fence, SS, volunteers
198	California pepper	*Schinus molle*	9.4	18	8/11/18/16	B	B-	Significant	trunk leans south, embedded tie marks on trunk, mechanical damage
199	California pepper	*Schinus molle*	8.9	18	6/20/23/15	B	C+	Significant	trunk leans heavy south, mechanical damage, stakes present and need correcting
200	American sweetgum	*Liquidambar styraciflua*	17.9	20	8/8/10/8	C-	C-	Significant	topped, all EG, extensive dieback
201	Mexican fan palm	*Washingtonia robusta*	12, 16 (BT-5, 15')	20	8/8/8/8	A-	B+	Significant	some dead fronds

Tree #	Common Name	Botanical Name	Diameter at 4.5 feet (DBH)* in inches	Height (feet)	Canopy Spread (N/E/S/W) in feet	Health	Structure	Protected or Significant Tree	Comments
202	tree of heaven	*Ailanthus altissima*	5.6	20	7/7/7/7	B	B+	No	partially shaded out
203	citrus	*Citrus sp.*	2.8, 2.9, 1.7, 1.8	15	8/10/8/8	B	B	Significant	codoms at base, a bit sparse
204	Chinaberry	*Melia azedarach*	13.4, 15	22	22/18/25/20	A	B+	Significant	growing against fence, MPE, SS, EG
205	Victorian box	*Pittosporum undulatum*	12.3	20	8/10/10/8	C-	D	Significant	trunk decayed, extensive dieback, deadwood throughout, EG, MPE, HOB
206	American sweetgum	*Liquidambar styraciflua*	19	20	10/17/14/14	C-	C-	Significant	topped, extensive dieback, EG, codoms at 7 feet
207	xylosma	*Xylosma congesta*	15.8	25	14/20/17/13	B	B-	Significant	moderate dieback, trunk leans against fence, MPE
208	shamel ash	*Fraxinus uhdei*	6.6, 10.6, 11.2, 11.1, 6	28	18/20/18/22	B	B	Significant	6-inch trunk embedded in fence, interior dieback, codoms at base
209	Indian laurel fig	*Ficus microcarpa*	5.4	20	17/14/0/0	B+	B-	No	trunk leans northeast against fence, mechanical damage
210	Modesto ash	*Fraxinus velutina 'Modesto'*	25.3	30	22/23/20/25	B-	B-	Significant	HOB, moderate dieback, some exposed roots
211	evergreen pear	*Pyrus kawakamii*	6	18	3/11/20/18	B-	B-	No	shaded out, HOB, mechanical damage on trunk

Tree #	Common Name	Botanical Name	Diameter at 4.5 feet (DBH)* in inches	Height (feet)	Canopy Spread (N/E/S/W) in feet	Health	Structure	Protected or Significant Tree	Comments
212	coast redwood	*Sequoia sempervirens*	26.8	50	13/15/12/13	B	B	Significant	spiked, MPE, some dieback and browning
213	carrotwood	*Cupaniopsis anacardioides*	4.2	18	10/10/10/10	A	B+	No	
214	coast redwood	*Sequoia sempervirens*	19.2	40	6/6/10/10	C	C	Significant	moderate browning throughout, SS, EG, top dieback
215	tree of heaven	*Ailanthus altissima*	9.2, 10, 9	28	13/13/20/24	A-	B+	Significant	growing against fence
216	Indian laurel fig	*Ficus microcarpa*	7, 3.9, 3.9, 7, 7.5, 6, 4	25	16/16/15/13	B+	B	Significant	covered in ants, codoms at base, minor interior dieback
217	tree of heaven	*Ailanthus altissima*	22	25	20/15/17/18	B+	B	Significant	diameter measured low
218	coast redwood	*Sequoia sempervirens*	20	35	N/A	F	F	Significant	tree standing dead
219	lemon bottlebrush	*Callistemon citrinus*	5.7, 6.5, 5.4	22	4/6/10/8	B-	B-	Significant	5.4 inch trunk is standing dead, one trunk cut, moderate dieback
220	shamel ash	*Fraxinus uhdei*	12, 13, 13	35	15/23/26/25	B+	B	Significant	MPE, minor dieback, HOB
221	tree of heaven	*Ailanthus altissima*	28	40	24/28/24/17	B	C+	Significant	fence and pole embedded into trunk, some upper canopy dieback, mechanical damage on trunk
222	tree of heaven	*Ailanthus altissima*	6.7	20	16/12/18/14	B	B	No	partially shaded out, fence embedded into lower trunk

Tree #	Common Name	Botanical Name	Diameter at 4.5 feet (DBH)* in inches	Height (feet)	Canopy Spread (N/E/S/W) in feet	Health	Structure	Protected or Significant Tree	Comments
223	mulberry	*Morus alba*	24.2, 3.9	25	18/20/20/14	C	D	Significant	topped, decay from base to topping cuts, all EG
OS224	tree of heaven	*Ailanthus altissima*	6	28	6/6/15/13	A	B+	No	overhangs approx 13 feet to west
OS225	tree of heaven	*Ailanthus altissima*	7	28	10/10/15/18	A	B	No	overhangs approx 18 feet to west
226	Mexican fan palm	*Washingtonia robusta*	12 (BT-60')	65	8/8/8/8	A-	B+	Significant	some dead fronds
227	tree of heaven	*Ailanthus altissima*	3.8, 4.5, 7.8	25	10/5/17/20	A	B+	Significant	codoms at 3 feet, growing into adjacent fence
228	coast live oak	*Quercus agrifolia*	7.3, 10.8, 19.6	28	30/12/23/22	A	B	Protected	against fence, fence embedded into parts of trunk, HOB, MPE, overhangs LA River easement, SS, EG, partially shaded out by adjacent sycamore
229	Western sycamore	*Platanus racemosa*	21.8	40	28/28/25/26	A-	B+	Protected	MPE, EG, minor interior dieback
230	Western sycamore	*Platanus racemosa*	23.4	40	26/23/28/20	A-	B-	Protected	MPE, EG, minor interior dieback, COD, cavity at base
231	coast redwood	*Sequoia sempervirens*	9	22	12/8/10/8	B+	B	Significant	pole embedded at base, minor browning throughout

Tree #	Common Name	Botanical Name	Diameter at 4.5 feet (DBH)* in inches	Height (feet)	Canopy Spread (N/E/S/W) in feet	Health	Structure	Protected or Significant Tree	Comments
232	Mexican fan palm	*Washingtonia robusta*	14 (BT-12')	20	8/8/8/8	A-	B	Significant	some dead fronds, growing adjacent to fence, overhangs LA River easement
233	apple	*Malus sp.*	8.5	18	4/8/8/11	B	B	Significant	base of trunk directly adjacent to fan palm, partially shaded out
234	tree of heaven	*Ailanthus altissima*	3.4, 5.1, 6	22	10/10/13/8	A-	B	Significant	growing against fence, fence embedded to parts of trunk
235	apple	*Malus sp.*	7.2	18	6/4/8/8	B+	B-	No	small tree growing at base not included, one large codom trunk cut at 4 feet
236	pear	*Pyrus sp.*	3, 5.8, 2.7	16	12/6/10/6	B+	B	Significant	mechanical damage
237	California pepper	*Schinus molle*	54.5	45	45/35/30/28	B	B	Significant	large cavity on lower trunk, exudation, SS, EG, MPE, HOB, overhangs LA River easement
238	coast live oak	*Quercus agrifolia*	3.2, 3.3	12	7/9/10/11	B	B	Protected	shaded out, EG

Tree #	Common Name	Botanical Name	Diameter at 4.5 feet (DBH)* in inches	Height (feet)	Canopy Spread (N/E/S/W) in feet	Health	Structure	Protected or Significant Tree	Comments
239	coast live oak	*Quercus agrifolia*	18.2	20	18/20/14/28	A-	B-	Protected	possible GR, growing into canopy of adjacent liquidambar, pruned for under canopy clearance, MPE, EG, partially shaded out
240	Norfolk Island pine	*Araucaria heterophylla*	6.6	16	5/4/8/16	B-	B-	No	decay at base, leans west, shaded out
241	Italian stone pine	*Pinus pinea*	31.4	30	10/28/40/30	B	B	Significant	MPE, HOB, a bit unbalanced to the south
242	Italian stone pine	*Pinus pinea*	7.2	15	5/5/12/8	B-	C-	No	shaded out, EG, growing into limb of adjacent pine
243	Mexican fan palm	*Washingtonia robusta*	12 (BT-50')	55	7/7/7/7	A-	B+	Significant	some dead fronds
244	Mexican fan palm	*Washingtonia robusta*	14 (BT-10')	16	6/6/6/6	A	B+	Significant	some dead fronds
245	American sweetgum	*Liquidambar styraciflua*	14.4	30	N/A	F	F	Significant	tree standing dead
246	American sweetgum	*Liquidambar styraciflua*	21.1	30	7/7/10/10	B-	B-	Significant	EG, topped, MPE
247	American sweetgum	*Liquidambar styraciflua*	22.8	30	10/10/12/18	B-	B-	Significant	EG, topped, MPE
248	American sweetgum	*Liquidambar styraciflua*	15.8	35	12/12/12/14	B	B-	Significant	EG, topped, MPE

Tree #	Common Name	Botanical Name	Diameter at 4.5 feet (DBH)* in inches	Height (feet)	Canopy Spread (N/E/S/W) in feet	Health	Structure	Protected or Significant Tree	Comments
249	American sweetgum	*Liquidambar styraciflua*	14.5	28	7/10/12/15	B-	B-	Significant	EG, topped, MPE
250	American sweetgum	*Liquidambar styraciflua*	15.9	25	10/5/8/12	B-	B-	Significant	EG, topped, MPE, top dieback
251	American sweetgum	*Liquidambar styraciflua*	20.1	30	12/14/13/12	B-	B-	Significant	EG, topped, MPE
252	American sweetgum	*Liquidambar styraciflua*	13.7	28	12/6/6/12	B	B-	Significant	EG, topped, MPE
253	coast live oak	*Quercus agrifolia*	3.2, 3.2	15	8/10/8/10	A-	B	Protected	growing through fence, squirrel damage
254	American sweetgum	*Liquidambar styraciflua*	22.2	35	18/16/15/15	B	B-	Significant	EG, MPE
255	American sweetgum	*Liquidambar styraciflua*	17.3	28	6/11/10/13	B-	B-	Significant	EG, topped, MPE
256	American sweetgum	*Liquidambar styraciflua*	18.8	20	10/10/11/12	B	D	Significant	EG, topped, MPE, COD, large cavity
257	American sweetgum	*Liquidambar styraciflua*	26.6	40	18/14/16/14	D	D	Significant	EG, MPE
258	American sweetgum	*Liquidambar styraciflua*	20	18	10/10/7/7	B-	B-	Significant	EG, topped, MPE, very sparse
259	American sweetgum	*Liquidambar styraciflua*	17.3	18	N/A	F	F	Significant	tree standing dead
260	American sweetgum	*Liquidambar styraciflua*	21	35	17/14/12/13	B	B-	Significant	EG, topped, MPE

Tree #	Common Name	Botanical Name	Diameter at 4.5 feet (DBH)* in inches	Height (feet)	Canopy Spread (N/E/S/W) in feet	Health	Structure	Protected or Significant Tree	Comments
261	American sweetgum	*Liquidambar styraciflua*	20.7	40	12/14/13/10	B-	B-	Significant	EG, topped, MPE
262	American sweetgum	*Liquidambar styraciflua*	18.9	35	16/16/16/13	B	B-	Significant	EG, MPE
263	American sweetgum	*Liquidambar styraciflua*	21.7	40	16/16/17/12	B-	B-	Significant	EG, topped, MPE
264	American sweetgum	*Liquidambar styraciflua*	18.2	35	12/10/16/17	B-	B-	Significant	EG, MPE
265	American sweetgum	*Liquidambar styraciflua*	21.1	28	16/16/17/15	B-	B-	Significant	EG, topped, MPE
266	American sweetgum	*Liquidambar styraciflua*	21.8	40	15/16/12/13	B+	B-	Significant	EG, MPE

DBH – Diameter at breast height. A forestry term used to describe a tree's trunk diameter measured at 4.5 feet above grade. Often used as a representation of tree size.

BT – Brown trunk (height) - Since palm trunks do not generally increase in diameter with age, they are described by their brown trunk height (the distance between grade and the newest emerging spear).

HOB – History of breakage

MPE – Multiple pruning events

GR – Girdled root

COD – Column of decay

SS – Stump sprout

EG – Epicormic growth



EXHIBIT A – AERIAL IMAGE OF SUBJECT PROPERTY
(BORDERED IN RED – Source: Bing Maps)

Not to Scale

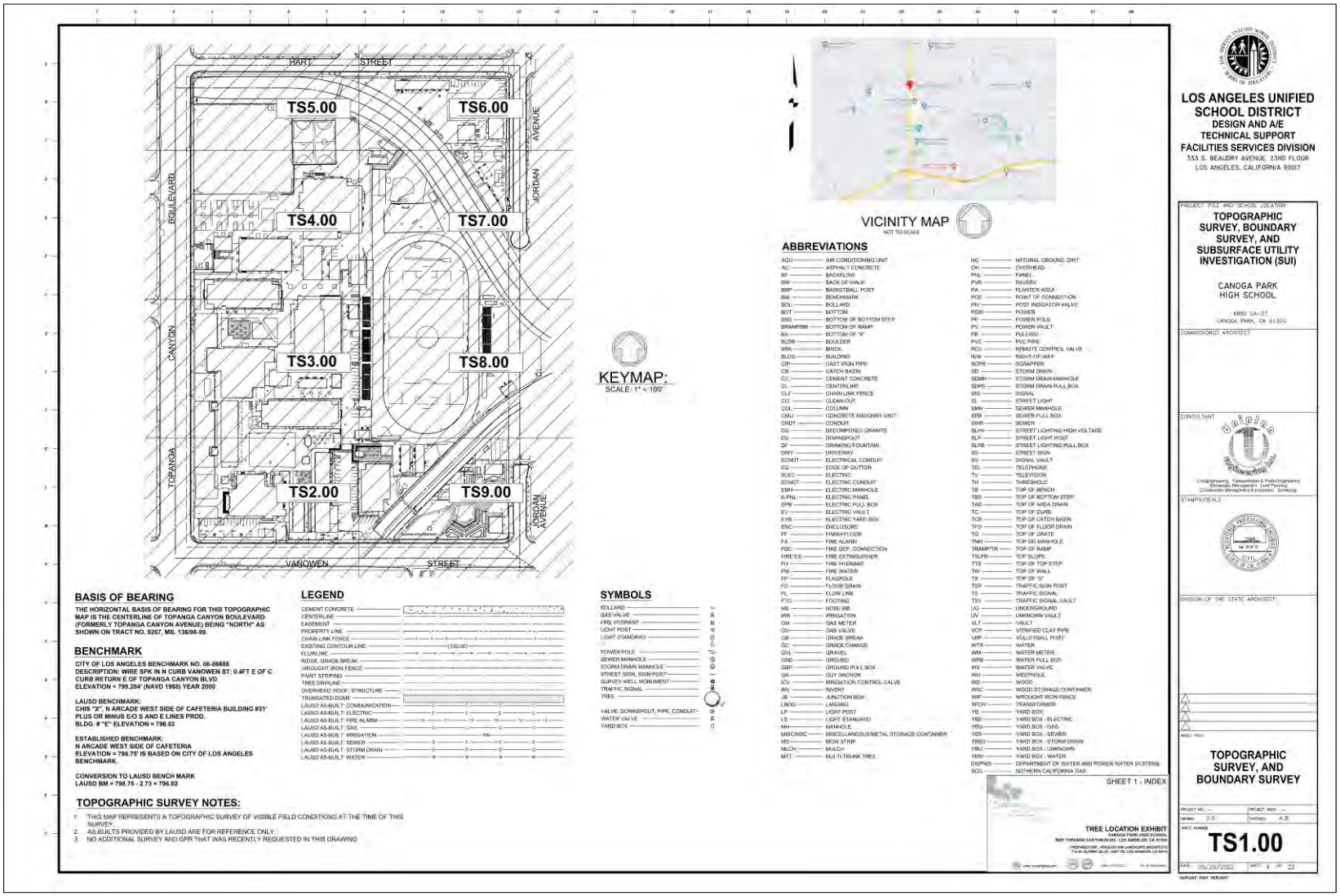
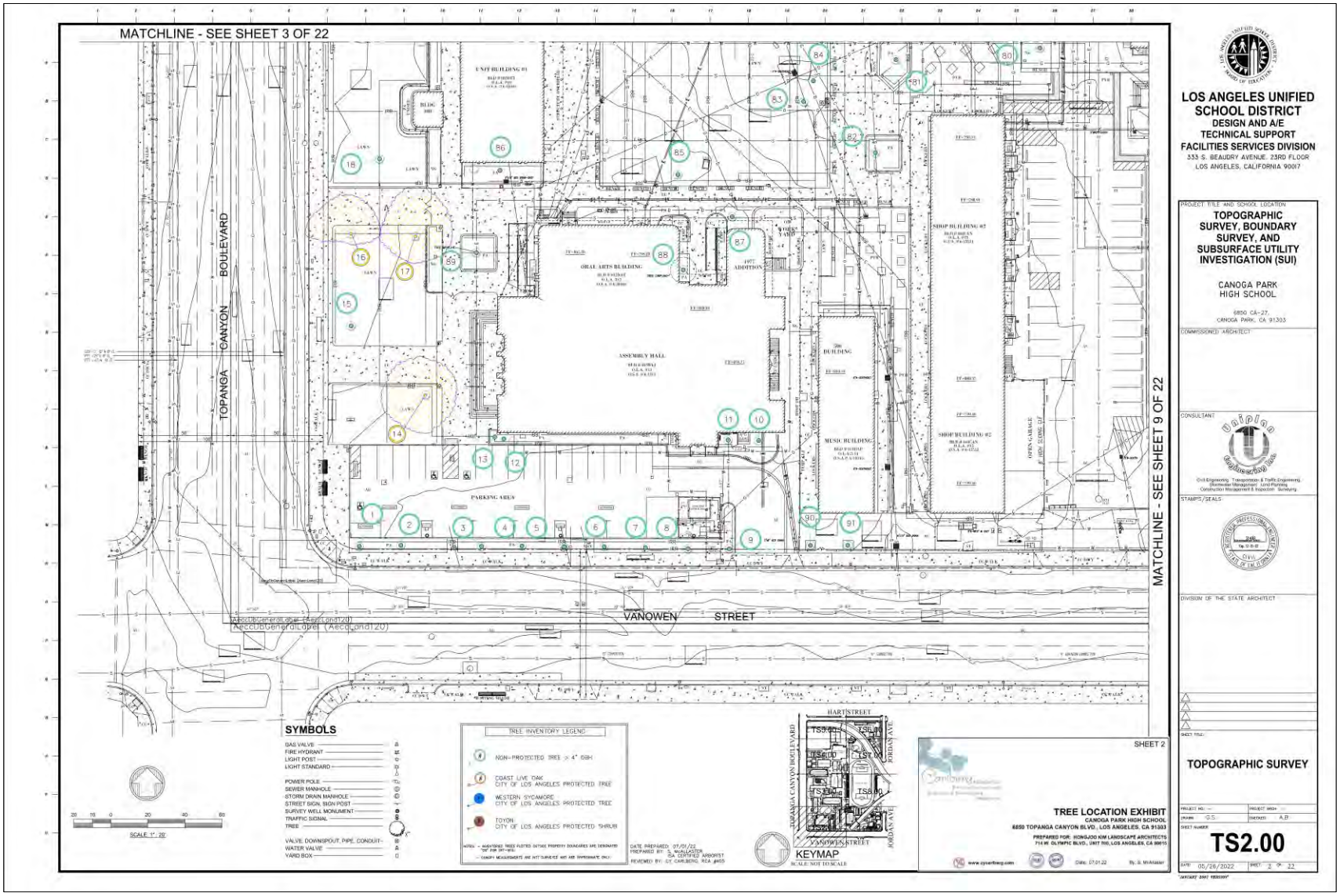
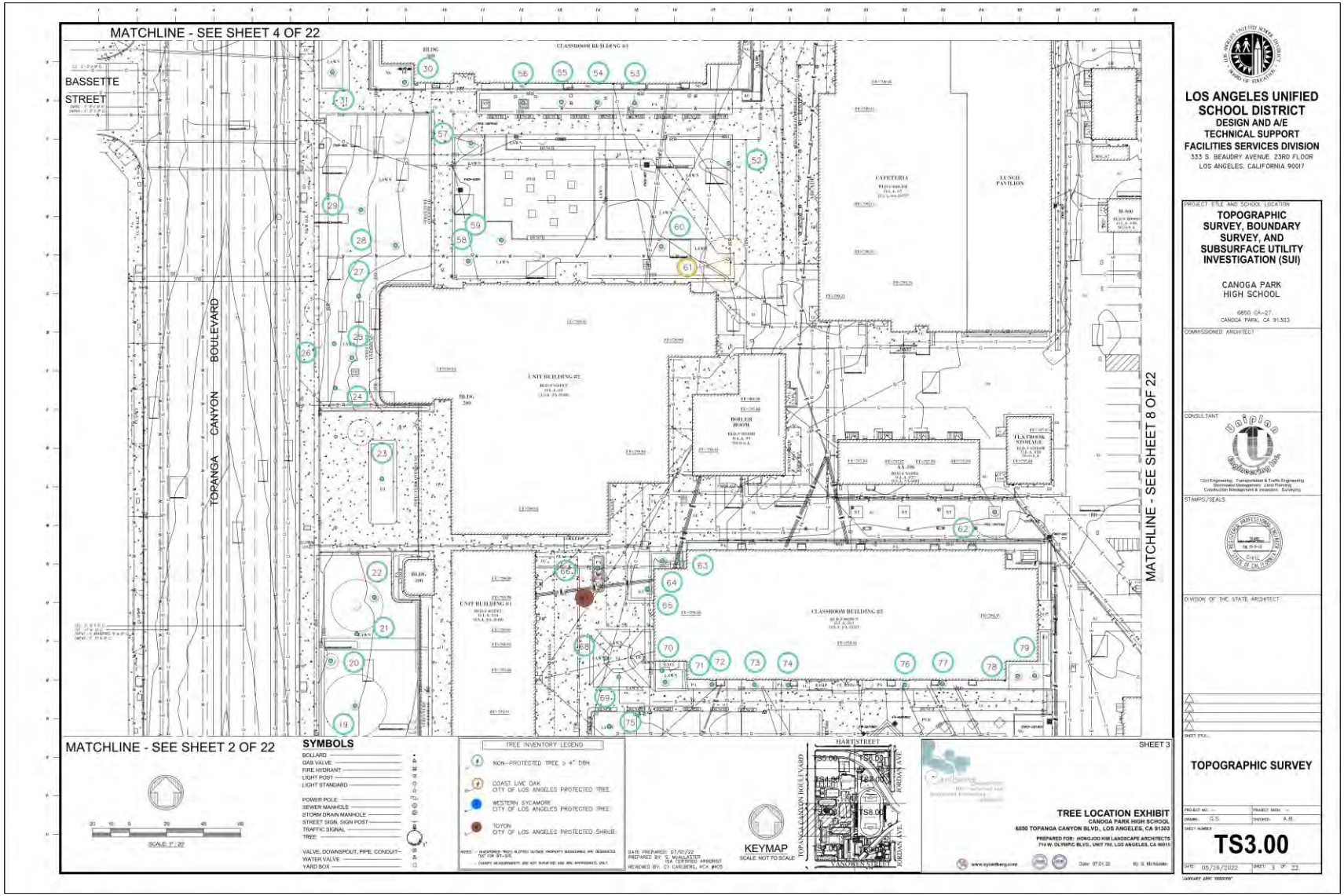
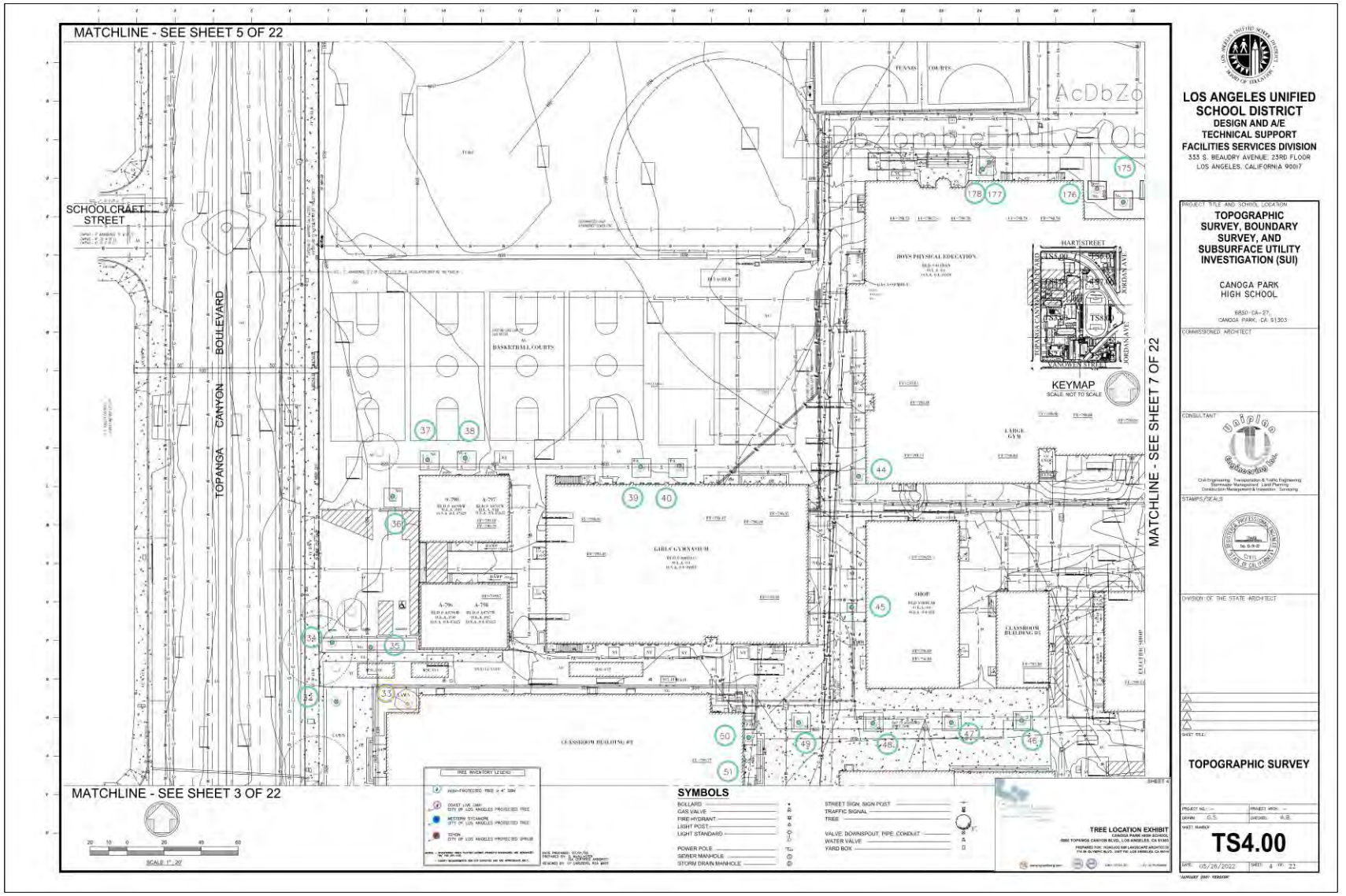
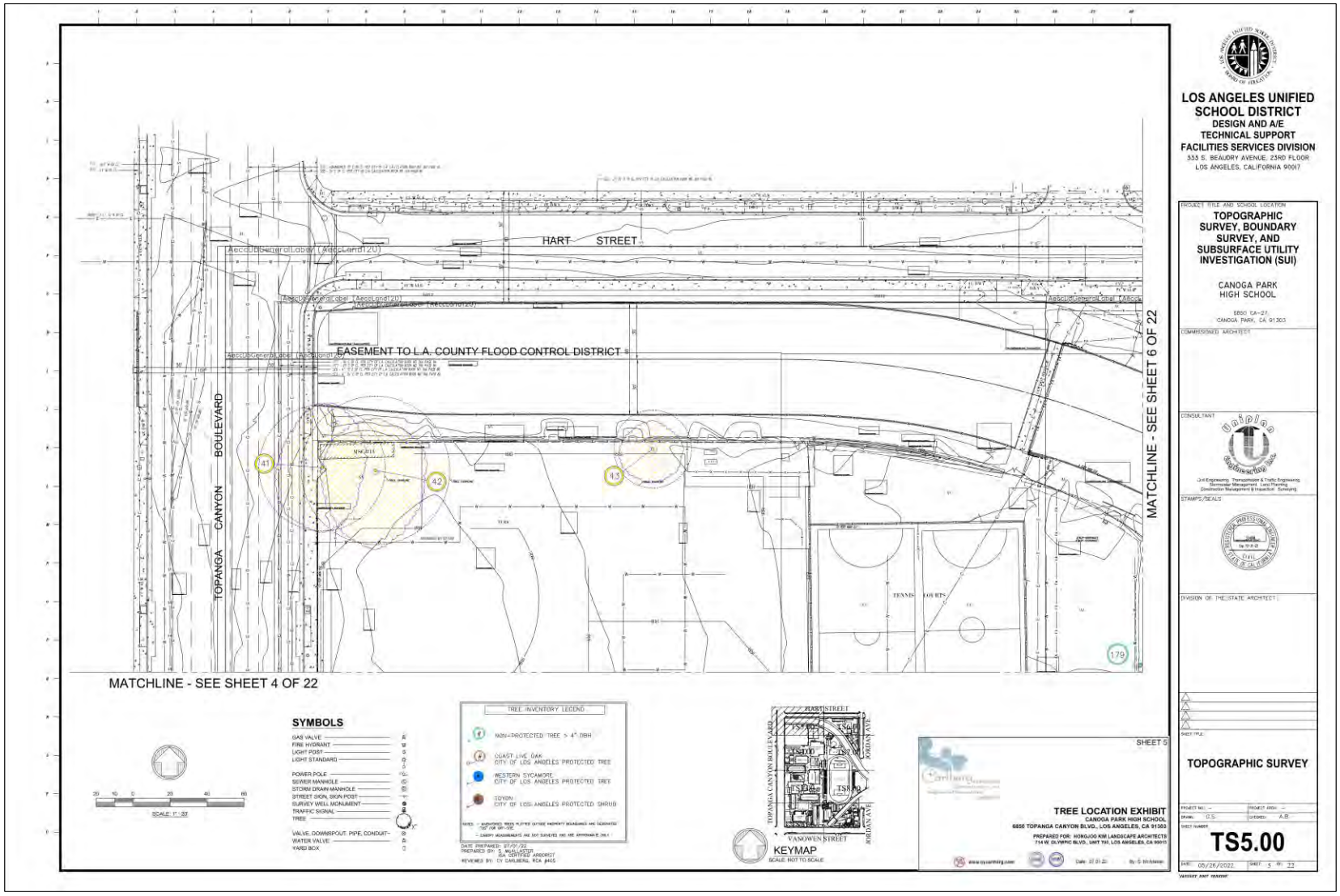


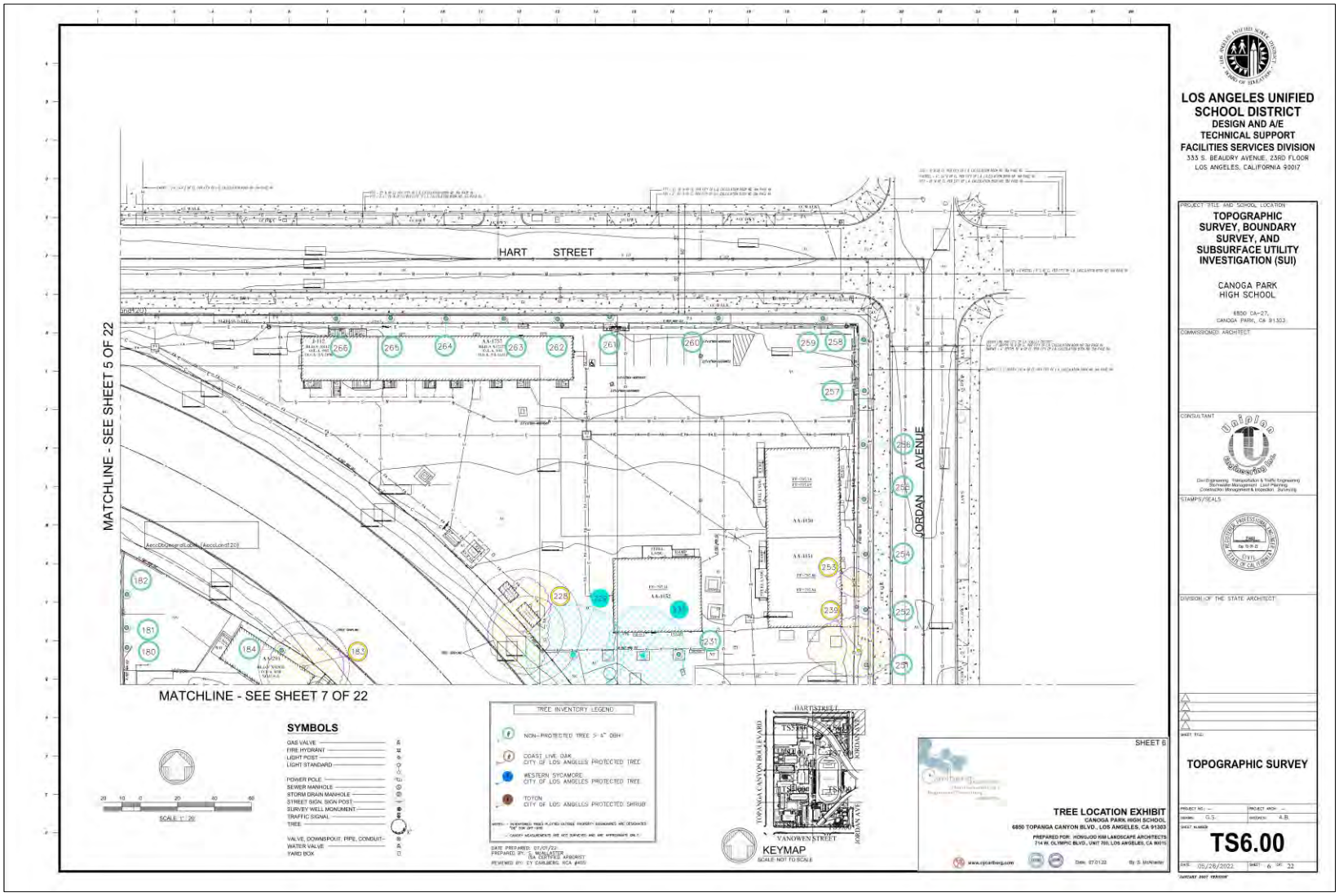
EXHIBIT B – REDUCED COPY OF TREE LOCATION EXHIBIT
(NOT TO SCALE)

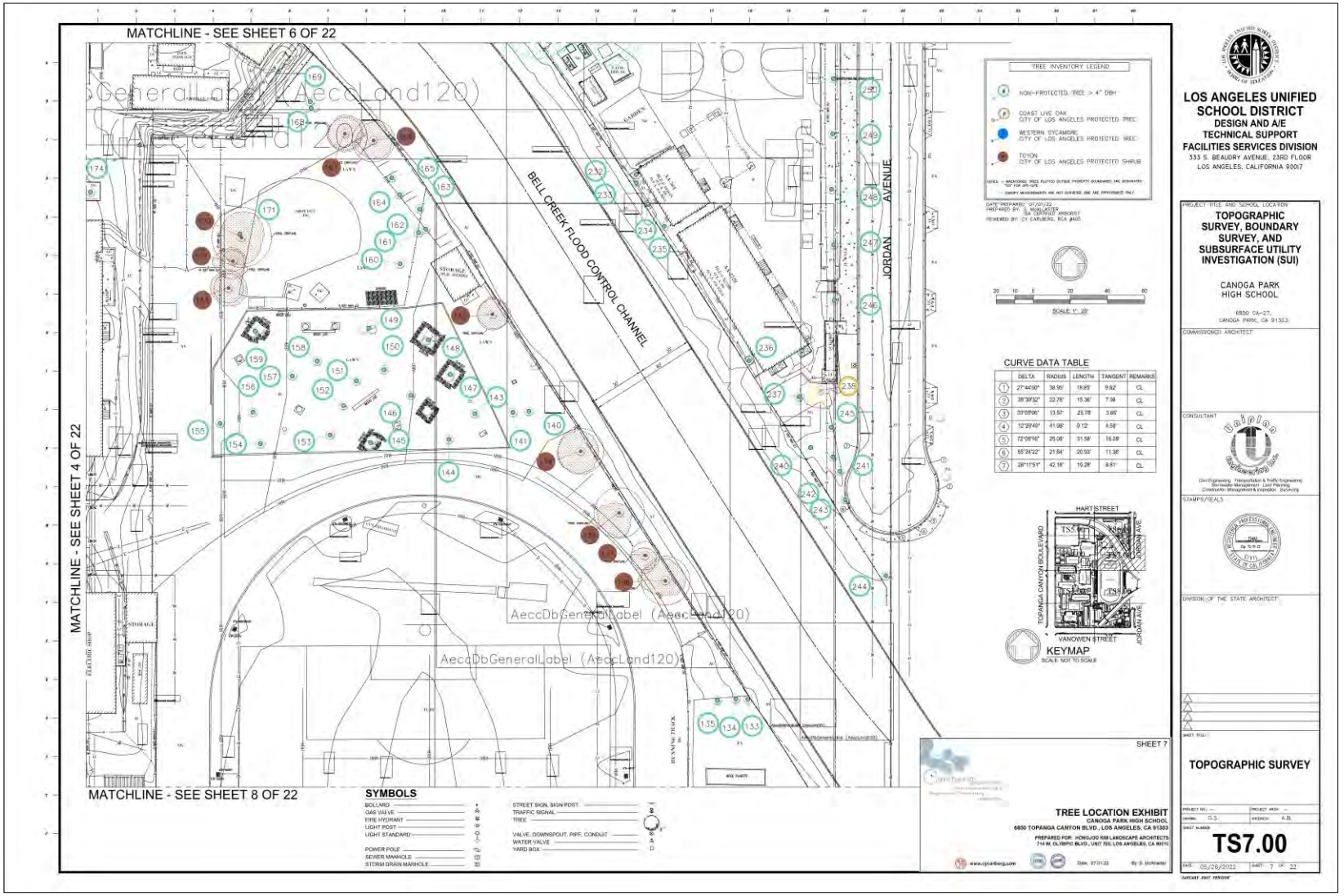

MATCHLINE - SEE SHEET 3 OF 22
MATCHLINE - SEE SHEET 9 OF 22
TOPANGA CANYON BOULEVARD
VANOWEN STREET
HARTSTREET
JORDAN AVE.
PARKING AREA
ASSEMBLY HALL
ORAL ARTS BUILDING
MUSIC BUILDING
SHOP BUILDING #2
SYMBOLS
GAS VALVE
FIRE HYDRANT
LIGHT POST
LIGHT STANDARD
POWER POLE
SEWER MANHOLE
STORM DRAIN MANHOLE
STREET SIGN, SIGN POST
SURVEY WELL MONUMENT
TRAFFIC SIGNAL
TREE
VALVE, DOWNSPOUT, PIPE, CONDUIT
WATER VALVE
YARD BOX
SCALE 1" = 20'
TREE INVENTORY LEGEND
NON-PROTECTED TREE ≥ 4" DBH
COAST LIVE OAK
CITY OF LOS ANGELES PROTECTED TREE
WESTERN SYCAMORE
CITY OF LOS ANGELES PROTECTED TREE
TOYON
CITY OF LOS ANGELES PROTECTED SHRUB
DATE PREPARED: 07/01/22
PREPARED BY: S. McALLASTER
ISA CERTIFIED ARBORIST
REVIEWED BY: GT CARLBERG, RCA #865
KEYMAP
SCALE: NOT TO SCALE
SHEET 2
TREE LOCATION EXHIBIT
CANOGA PARK HIGH SCHOOL
6850 TOPANGA CANYON BLVD., LOS ANGELES, CA 91303
PREPARED FOR: HONGJOO KIM LANDSCAPE ARCHITECTS
714 W. OLYMPIC BLVD., UNIT 700, LOS ANGELES, CA 90015
LOS ANGELES UNIFIED SCHOOL DISTRICT
DESIGN AND A/E TECHNICAL SUPPORT
FACILITIES SERVICES DIVISION
333 S. BEAUDRY AVENUE, 23RD FLOOR
LOS ANGELES, CALIFORNIA 90017
PROJECT TITLE AND SCHOOL LOCATION
TOPOGRAPHIC SURVEY, BOUNDARY SURVEY, AND SUBSURFACE UTILITY INVESTIGATION (SUI)
CANOGA PARK HIGH SCHOOL
6850 CA-27,
CANOGA PARK, CA 91303
COMMISSIONED ARCHITECT
CONSULTANT
STAMPS/SEALS
DIVISION OF THE STATE ARCHITECT
SHEET TITLE:
TOPOGRAPHIC SURVEY
SHEET NUMBER
TS2.00
DATE: 05/26/2022

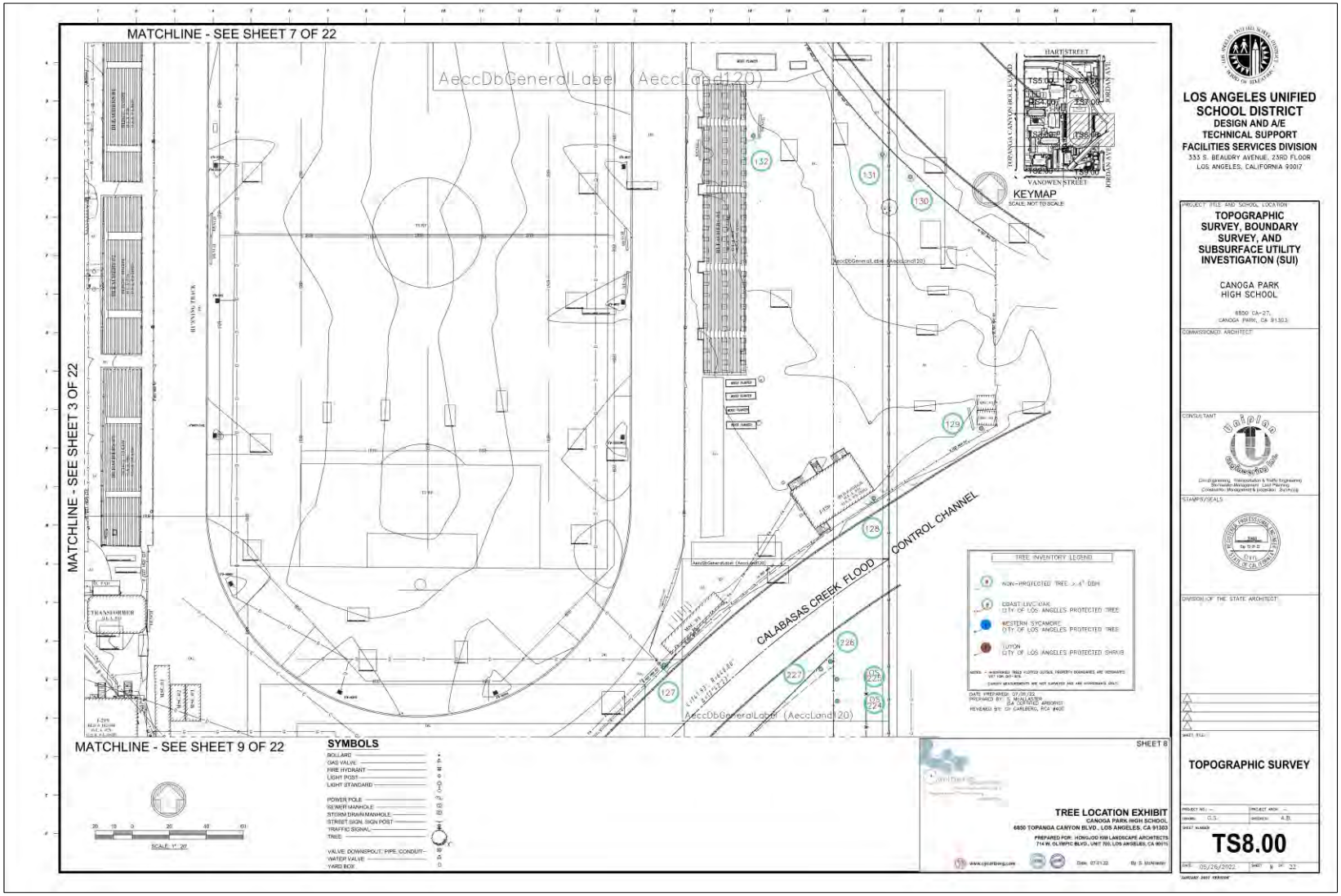

MATCHLINE - SEE SHEET 4 OF 22
BASSETTE STREET
TOPANGA CANYON BOULEVARD
MATCHLINE - SEE SHEET 8 OF 22
MATCHLINE - SEE SHEET 2 OF 22
SYMBOLS
TREE INVENTORY LEGEND
KEYMAP
SCALE: NOT TO SCALE
SHEET 3
LOS ANGELES UNIFIED SCHOOL DISTRICT
DESIGN AND A/E TECHNICAL SUPPORT
FACILITIES SERVICES DIVISION
333 S. BEAUDRY AVENUE, 23RD FLOOR
LOS ANGELES, CALIFORNIA 90017
TOPOGRAPHIC SURVEY, BOUNDARY SURVEY, AND SUBSURFACE UTILITY INVESTIGATION (SUI)
CANOGA PARK HIGH SCHOOL
6850 CA-27
CANOGA PARK, CA 91303
TOPOGRAPHIC SURVEY
TREE LOCATION EXHIBIT
CANOGA PARK HIGH SCHOOL
6850 TOPANGA CANYON BLVD., LOS ANGELES, CA 91303
TS3.00

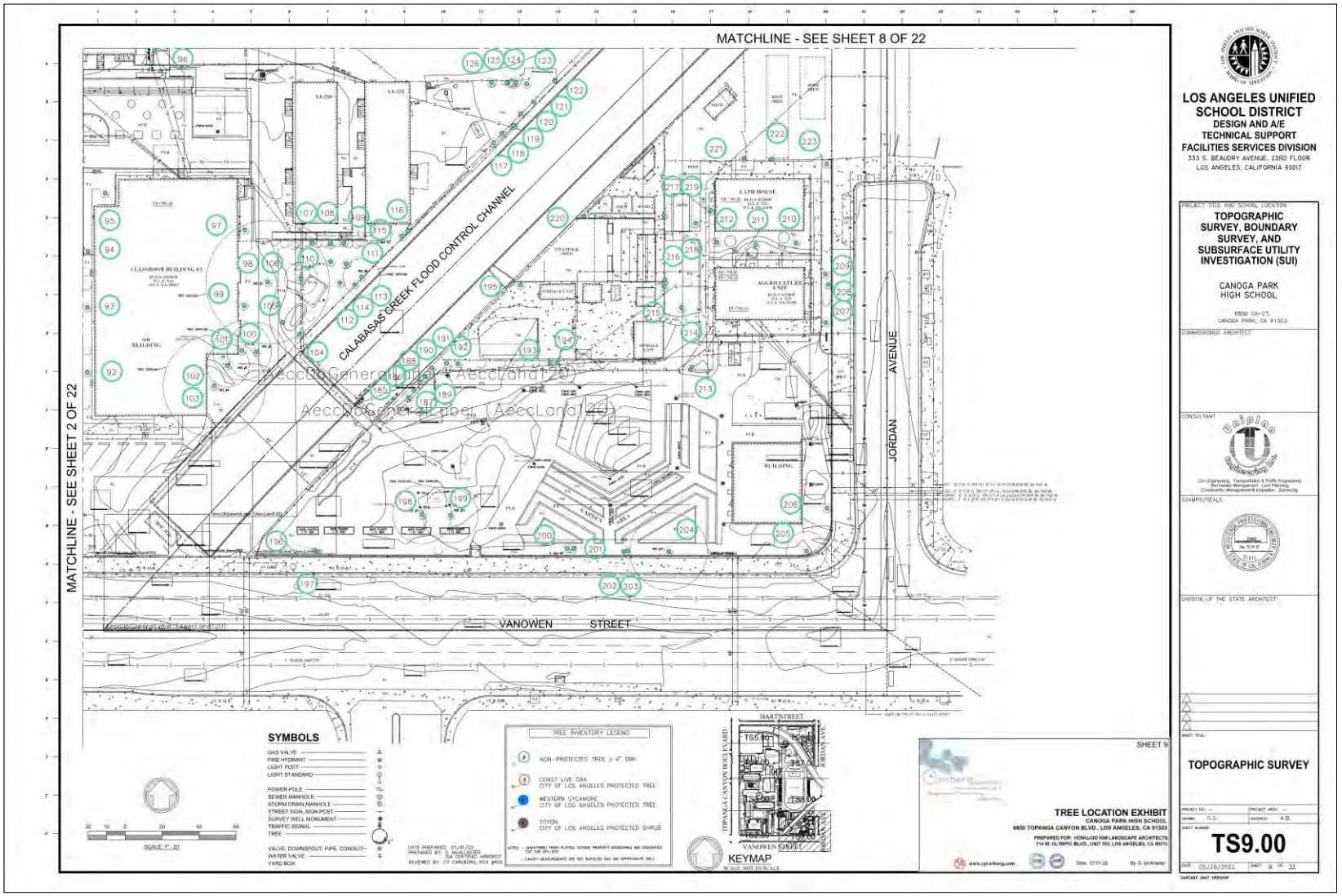

MATCHLINE - SEE SHEET 5 OF 22
MATCHLINE - SEE SHEET 3 OF 22
MATCHLINE - SEE SHEET 7 OF 22
SCHOOLCRAFT STREET
TOPANGA CANYON BOULEVARD
HART STREET
JORDAN AVE.
TENNIS COURTS
BOYS PHYSICAL EDUCATION
BASKETBALL COURTS
GIRLS GYMNASIUM
LARGE GYM
SHOP
CLASSROOM BUILDING #5
CLASSROOM BUILDING #7
KEYMAP
SCALE: NOT TO SCALE
SYMBOLS
BOLLARD
GAS VALVE
FIRE HYDRANT
LIGHT POST
LIGHT STANDARD
POWER POLE
SEWER MANHOLE
STORM DRAIN MANHOLE
STREET SIGN, SIGN POST
TRAFFIC SIGNAL
TREE
VALVE, DOWNSPOUT, PIPE, CONDUIT
WATER VALVE
YARD BOX
TREE LOCATION EXHIBIT
LOS ANGELES UNIFIED SCHOOL DISTRICT
DESIGN AND A/E
TECHNICAL SUPPORT
FACILITIES SERVICES DIVISION
333 S. BEAUDRY AVENUE, 23RD FLOOR
LOS ANGELES, CALIFORNIA 90017
TOPOGRAPHIC SURVEY, BOUNDARY SURVEY, AND SUBSURFACE UTILITY INVESTIGATION (SUI)
CANOGA PARK HIGH SCHOOL
6850 CA-27,
CANOGA PARK, CA 91303
TOPOGRAPHIC SURVEY
TS4.00
05/26/2022


HART STREET
EASEMENT TO L.A. COUNTY FLOOD CONTROL DISTRICT
TOPANGA CANYON BOULEVARD
MATCHLINE - SEE SHEET 6 OF 22
MATCHLINE - SEE SHEET 4 OF 22
TENNIS COURTS
SYMBOLS
GAS VALVE
FIRE HYDRANT
LIGHT POST
LIGHT STANDARD
POWER POLE
SEWER MANHOLE
STORM DRAIN MANHOLE
STREET SIGN, SIGN POST
SURVEY WELL MONUMENT
TRAFFIC SIGNAL
TREE
VALVE, DOWNSPOUT, PIPE, CONDUIT
WATER VALVE
YARD BOX
SCALE: 1" = 20'
TREE INVENTORY LEGEND
NON-PROTECTED TREE > 4" DBH
COAST LIVE OAK
CITY OF LOS ANGELES PROTECTED TREE
WESTERN SYCAMORE
CITY OF LOS ANGELES PROTECTED TREE
TOYON
CITY OF LOS ANGELES PROTECTED SHRUB
KEYMAP
SCALE: NOT TO SCALE
SHEET 5
TREE LOCATION EXHIBIT
CANOGA PARK HIGH SCHOOL
6850 TOPANGA CANYON BLVD., LOS ANGELES, CA 91303
LOS ANGELES UNIFIED SCHOOL DISTRICT
DESIGN AND A/E TECHNICAL SUPPORT
FACILITIES SERVICES DIVISION
333 S. BEAUDRY AVENUE, 23RD FLOOR
LOS ANGELES, CALIFORNIA 90017
TOPOGRAPHIC SURVEY, BOUNDARY SURVEY, AND SUBSURFACE UTILITY INVESTIGATION (SUI)
CANOGA PARK HIGH SCHOOL
6850 CA-27,
CANOGA PARK, CA 91303
TOPOGRAPHIC SURVEY
TS5.00
05/26/2022


HART STREET
JORDAN AVENUE
MATCHLINE - SEE SHEET 5 OF 22
MATCHLINE - SEE SHEET 7 OF 22
SYMBOLS
TREE INVENTORY LEGEND
NON-PROTECTED TREE 5" & " DBH
COAST LIVE OAK
CITY OF LOS ANGELES PROTECTED TREE
WESTERN SYCAMORE
CITY OF LOS ANGELES PROTECTED TREE
TOYON
CITY OF LOS ANGELES PROTECTED SHRUB
KEYMAP
SCALE: NOT TO SCALE
SHEET 8
TREE LOCATION EXHIBIT
6850 TOPANGA CANYON BLVD., LOS ANGELES, CA 91303
LOS ANGELES UNIFIED SCHOOL DISTRICT
DESIGN AND A/E
TECHNICAL SUPPORT
FACILITIES SERVICES DIVISION
333 S. BEAUDRY AVENUE, 23RD FLOOR
LOS ANGELES, CALIFORNIA 90017
TOPOGRAPHIC SURVEY, BOUNDARY SURVEY, AND SUBSURFACE UTILITY INVESTIGATION (SUI)
CANOGA PARK HIGH SCHOOL
6850 CA-27,
CANOGA PARK, CA 91303
TOPOGRAPHIC SURVEY
TS6.00
05/26/2022


MATCHLINE - SEE SHEET 6 OF 22
MATCHLINE - SEE SHEET 4 OF 22
MATCHLINE - SEE SHEET 8 OF 22
BELL CREEK FLOOD CONTROL CHANNEL
JORDAN AVENUE
TREE INVENTORY LEGEND
NON-PROTECTED TREE > 4" DBH
COAST LIVE OAK
CITY OF LOS ANGELES PROTECTED TREE
WESTERN SYCAMORE
CITY OF LOS ANGELES PROTECTED TREE
TOYON
CITY OF LOS ANGELES PROTECTED SHRUB
SCALE 1" = 20'
CURVE DATA TABLE
DELTA
RADIUS
LENGTH
TANGENT
REMARKS
KEYMAP
HART STREET
VANOWEN STREET
TOPANGA CANYON BOULEVARD
JORDAN AVE
SYMBOLS
BOLLARD
GAS VALVE
FIRE HYDRANT
LIGHT POST
LIGHT STANDARD
POWER POLE
SEWER MANHOLE
STORM DRAIN MANHOLE
STREET SIGN, SIGN POST
TRAFFIC SIGNAL
TREE
VALVE, DOWNSPOUT, PIPE, CONDUIT
WATER VALVE
YARD BOX
SHEET 7
TREE LOCATION EXHIBIT
CANOGA PARK HIGH SCHOOL
6850 TOPANGA CANYON BLVD., LOS ANGELES, CA 91303
LOS ANGELES UNIFIED SCHOOL DISTRICT
DESIGN AND A/E TECHNICAL SUPPORT
FACILITIES SERVICES DIVISION
333 S. BEAUDRY AVENUE, 23RD FLOOR
LOS ANGELES, CALIFORNIA 90017
TOPOGRAPHIC SURVEY, BOUNDARY SURVEY, AND SUBSURFACE UTILITY INVESTIGATION (SUI)
CANOGA PARK HIGH SCHOOL
TOPOGRAPHIC SURVEY
TS7.00


MATCHLINE - SEE SHEET 7 OF 22
MATCHLINE - SEE SHEET 3 OF 22
MATCHLINE - SEE SHEET 9 OF 22
CALABASAS CREEK FLOOD CONTROL CHANNEL
HART STREET
VANOWEN STREET
KEYMAP
SCALE: NOT TO SCALE
SYMBOLS
TREE INVENTORY LEGEND
LOS ANGELES UNIFIED SCHOOL DISTRICT
DESIGN AND A/E
TECHNICAL SUPPORT
FACILITIES SERVICES DIVISION
333 S. BEAUDRY AVENUE, 23RD FLOOR
LOS ANGELES, CALIFORNIA 90017
TOPOGRAPHIC SURVEY, BOUNDARY SURVEY, AND SUBSURFACE UTILITY INVESTIGATION (SUI)
CANOGA PARK HIGH SCHOOL
TOPOGRAPHIC SURVEY
TREE LOCATION EXHIBIT
CANOGA PARK HIGH SCHOOL
6850 TOPANGA CANYON BLVD , LOS ANGELES, CA 91303
TS8.00


MATCHLINE - SEE SHEET 8 OF 22
MATCHLINE - SEE SHEET 2 OF 22
CALABASAS CREEK FLOOD CONTROL CHANNEL
JORDAN AVENUE
VANOWEN STREET
HARTSTREET
TOPANGA CANYON BOULEVARD
CLASSROOM BUILDING #1
BUILDING
LATH HOUSE
AGRICULTURE UNIT
SYMBOLS
GAS VALVE
FIRE HYDRANT
LIGHT POST
LIGHT STANDARD
POWER POLE
SEWER MANHOLE
STORM DRAIN MANHOLE
STREET SIGN, SIGN POST
SURVEY WELL MONUMENT
TRAFFIC SIGNAL
TREE
VALVE, DOWNSPOUT, PIPE, CONDUIT
WATER VALVE
YARD BOX
TREE INVENTORY LEGEND
NON-PROTECTED TREE > 4" DBH
COAST LIVE OAK
CITY OF LOS ANGELES PROTECTED TREE
WESTERN SYCAMORE
CITY OF LOS ANGELES PROTECTED TREE
TOYON
CITY OF LOS ANGELES PROTECTED SHRUB
KEYMAP
SCALE: NOT TO SCALE
SHEET 9
TREE LOCATION EXHIBIT
CANOGA PARK HIGH SCHOOL
6850 TOPANGA CANYON BLVD., LOS ANGELES, CA 91303
PREPARED FOR: HONGJOO KIM LANDSCAPE ARCHITECTS
714 W. OLYMPIC BLVD., UNIT 700, LOS ANGELES, CA 90015
LOS ANGELES UNIFIED SCHOOL DISTRICT
DESIGN AND A/E
TECHNICAL SUPPORT
FACILITIES SERVICES DIVISION
333 S. BEAUDRY AVENUE, 23RD FLOOR
LOS ANGELES, CALIFORNIA 90017
TOPOGRAPHIC SURVEY, BOUNDARY SURVEY, AND SUBSURFACE UTILITY INVESTIGATION (SUI)
CANOGA PARK HIGH SCHOOL
6850 CA-27,
CANOGA PARK, CA 91303
TOPOGRAPHIC SURVEY
TS9.00
05/26/2022

TREE PHOTOGRAPH EXHIBIT



Trees 1(R), 2(L)



Trees 3-5 (R-L)



Trees 6-8 (R-L)



Tree 9



Trees 10(R), 11(L)



Trees 12(R), 13(L)



Tree 14



Tree 15



Trees 16(L), 17(R)



Tree 18



Tree 19



Tree 20



Tree 21



Tree 22



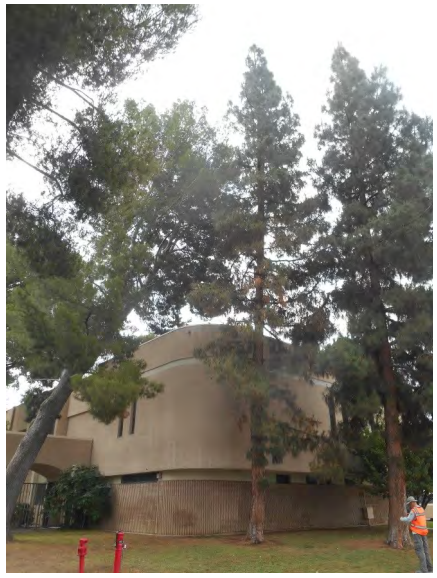
Tree 23



Tree 24



Tree 25



Trees 26-28 (R-L)



Tree 29



Tree 30



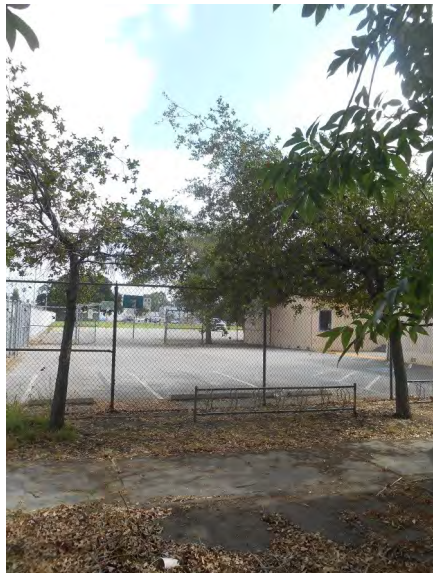
Tree 31



Tree 32



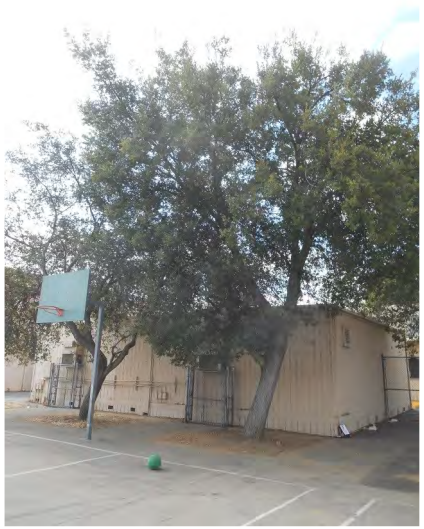
Tree 33



Trees 34(L), 35(R)



Tree 36



Trees 37(R), 38(L)



Trees 39(R), 40(L)



Tree 41



Tree 42



Tree 43



Tree 44



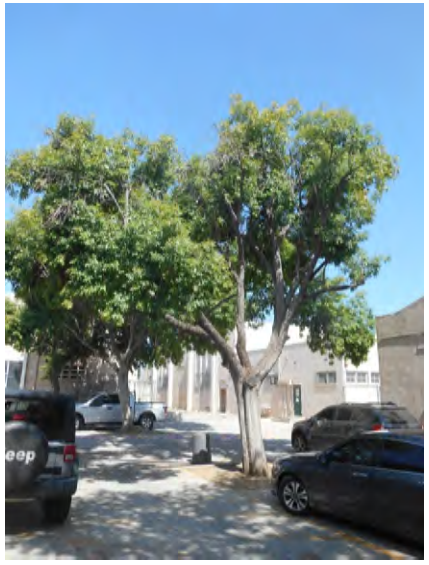
Tree 45



Tree 46



Tree 47



Tree 48



Tree 49



Tree 50



Tree 51



Tree 52



Trees 53(R), 54(L)



Trees 55(R), 56(L)



Tree 57



Tree 58



Tree 59



Tree 60



Tree 61



Tree 62



Trees 63(L), 64(R)



Tree 65



Tree 66



Tree 67



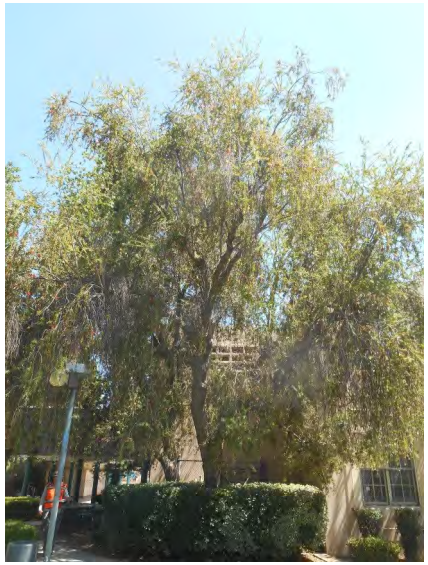
Tree 68



Tree 69



Tree 70



Tree 71



Tree 72



Trees 73(L), 74(R)



Tree 75



Tree 76



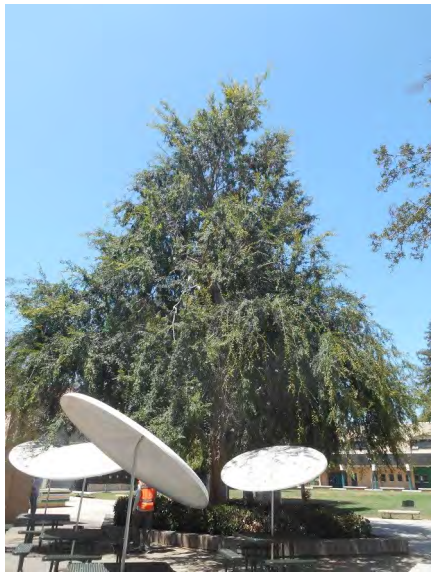
Tree 77



Trees 78(L), 79(R)



Tree 80



Tree 81



Tree 82



Tree 83



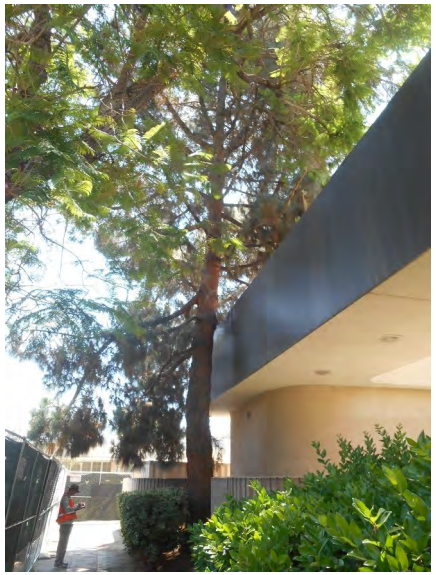
Tree 84



Tree 85



Tree 86



Tree 87



Tree 88



Tree 89



Trees 90(R), 91(L)



Tree 92



Tree 93



Tree 94



Tree 95



Tree 96



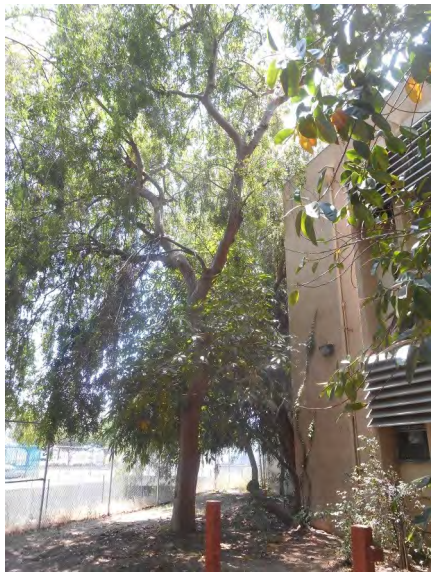
Tree 97



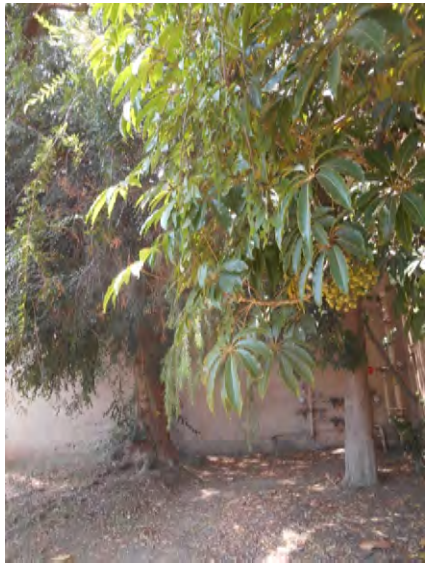
Tree 98



Tree 99



Trees 100(L), 101(R)



Trees 102(R), 103(L)



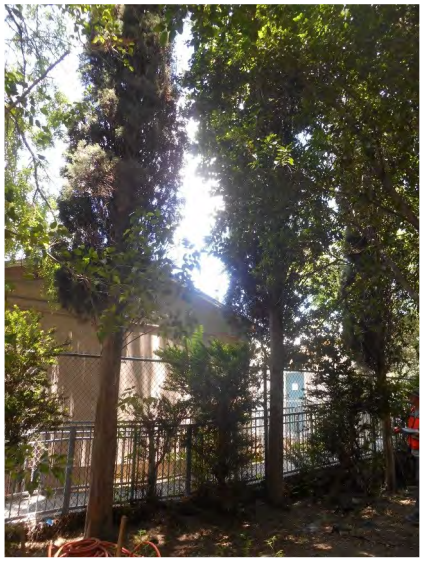
Tree 104



Tree 105



Tree 106



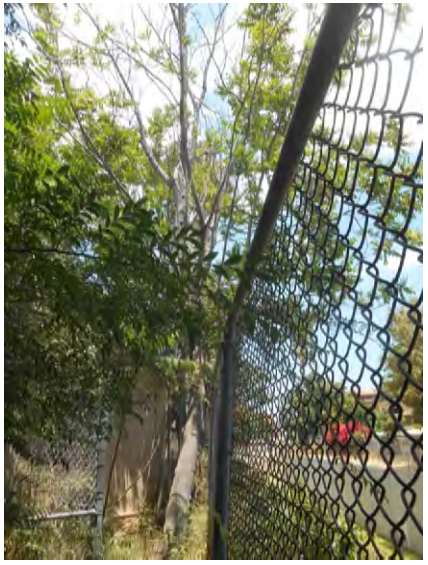
Trees 107-109 (L-R)



Trees 110-112 (L-R)



Trees 113(front), 114(rear)



Trees 115(front), 116(rear)



Trees 117-120 (R-L)



Trees 121(R), 122(L)



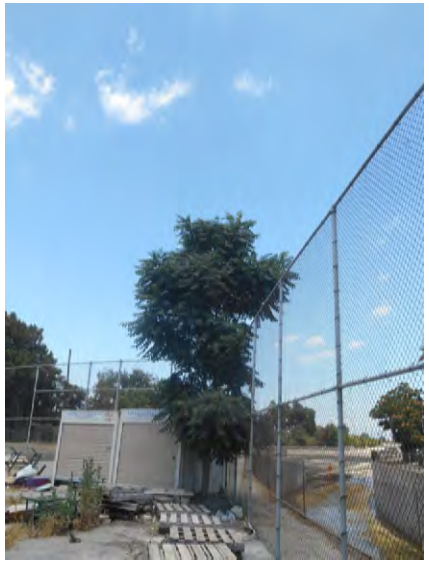
Trees 123-126 (L-R)



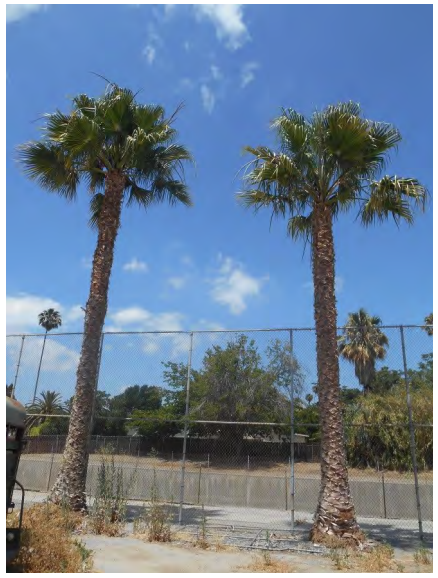
Tree 127



Tree 128



Tree 129



Trees 130(R), 131(L)



Tree 132



Trees 133-135 (R-L)



Tree 136



Tree 137



Tree 138



Tree 139



Trees 140(R), 141(L)



Tree 142



Tree 143



Tree 144



Tree 145



Tree 146



Tree 147



Tree 148



Tree 149



Tree 150



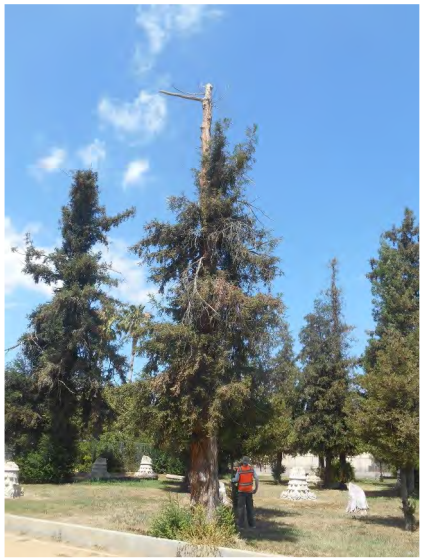
Tree 151



Trees 152(L), 153(R)



Tree 154



Tree 155



Tree 156



Tree 157



Tree 158



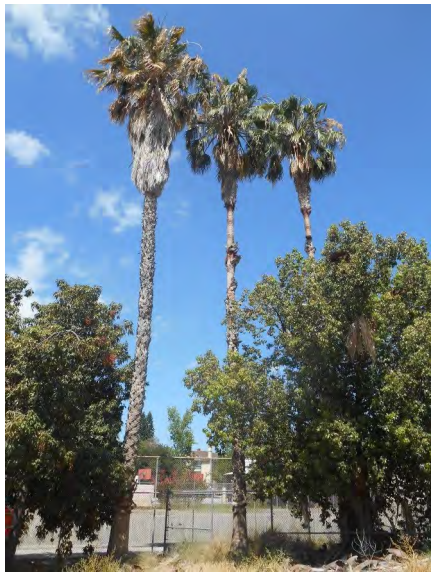
Tree 159



Tree 160



Tree 161



Trees 162-164 (R-L)



Tree 165



Tree 166



Tree 167



Trees 168(front), 169(rear)



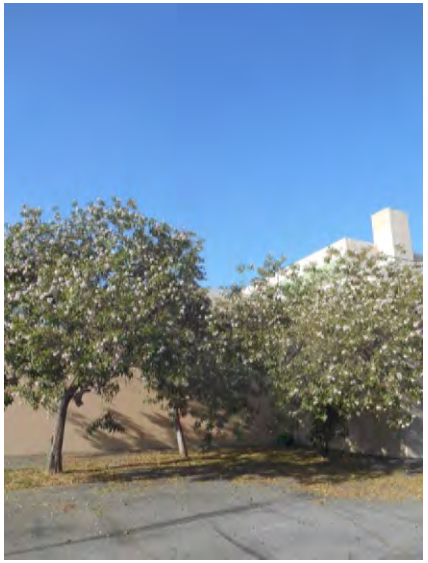
Trees 170(L), 171(R)



Tree 172



Tree 173



Trees 174-176 (L-R)



Trees 177(R), 178(L)



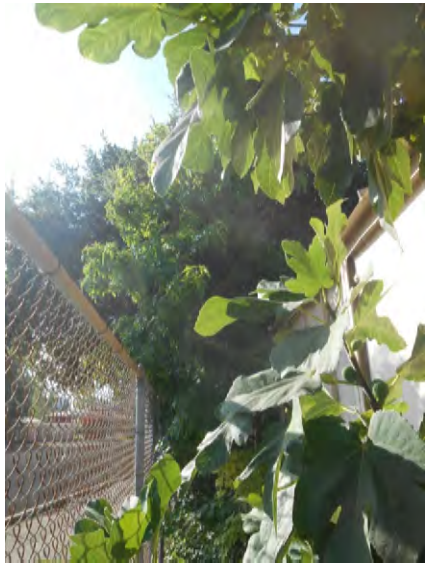
Tree 179



Trees 180-182 (L-R)



Tree 183



Tree 184



Trees 185-192 (L-R)



Trees 193(L), 194(R)



Tree 195



Trees 196-198 (R-L)



Tree 199



Trees 200(R), 201(L)



Trees 202(R), 203(L)



Tree 204



Tree 205



Tree 206



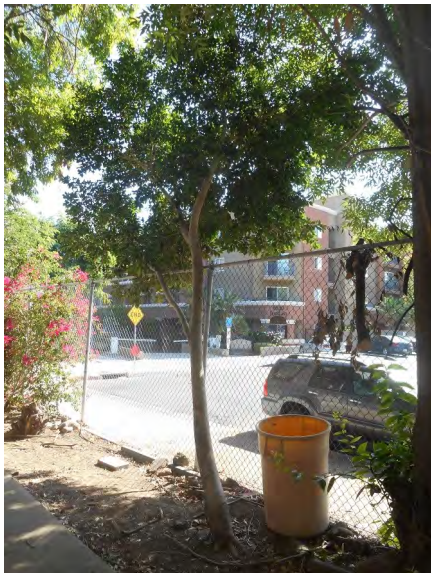
Tree ST1



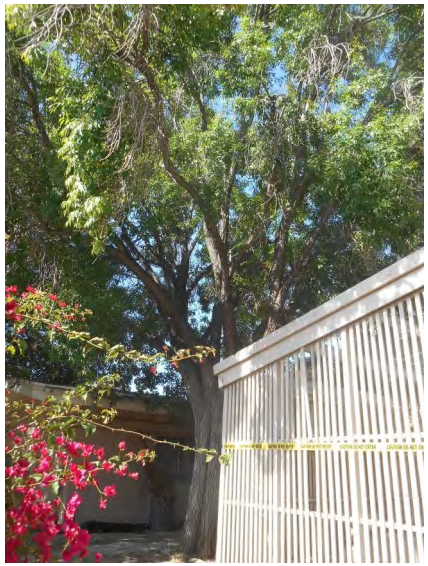
Tree 207



Tree 208



Tree 209



Tree 210



Tree 211



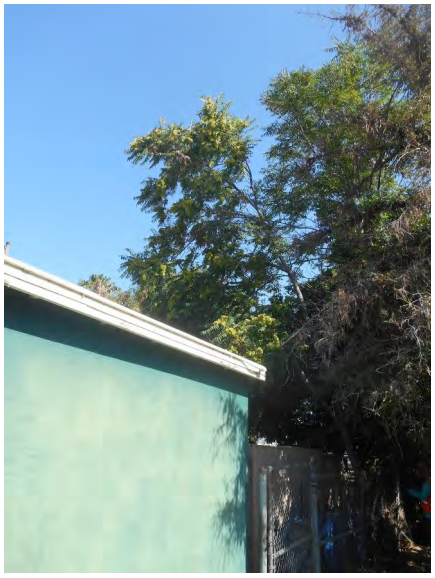
Tree 212



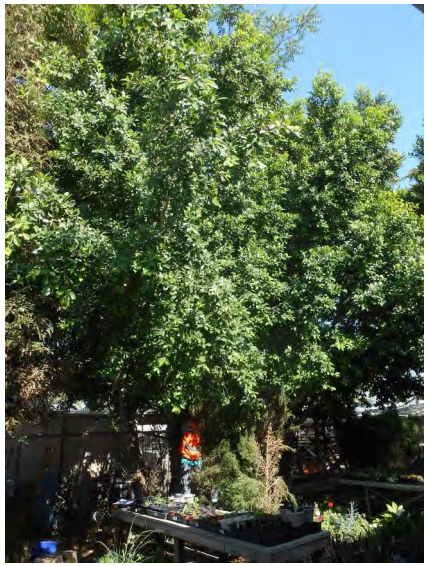
Tree 213



Tree 214



Tree 215



Tree 216



Tree 217



Trees 218(R), 219(L)



Tree 220



Tree 221



Tree 222



Tree 223



Trees 224-227 (R-L)



Tree 228



Tree 229



Tree 230



Tree 231



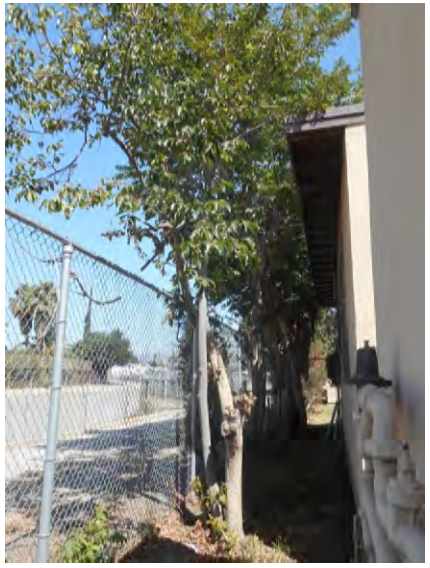
Tree 232



Tree 233



Tree 234



Tree 235



Tree 236



Tree 237



Tree 238



Tree 239



Tree 240



Tree 241



Tree 242



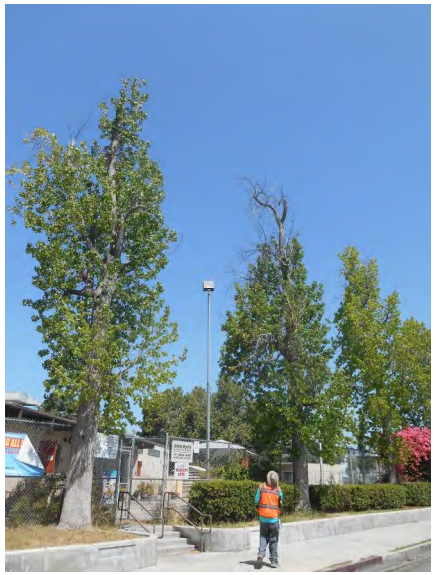
Tree 243



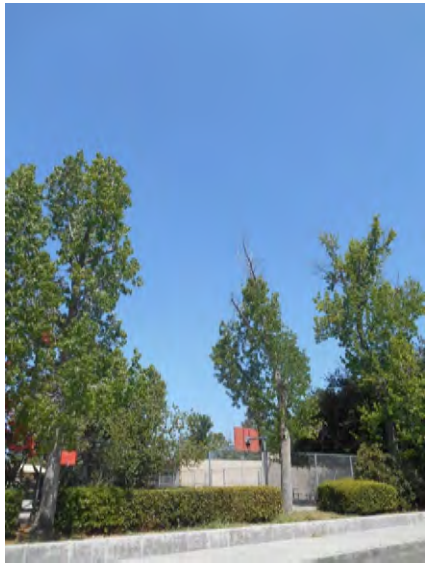
Tree 244



Tree 245



Trees 246-248 (L-R)



Trees 249-251 (L-R)



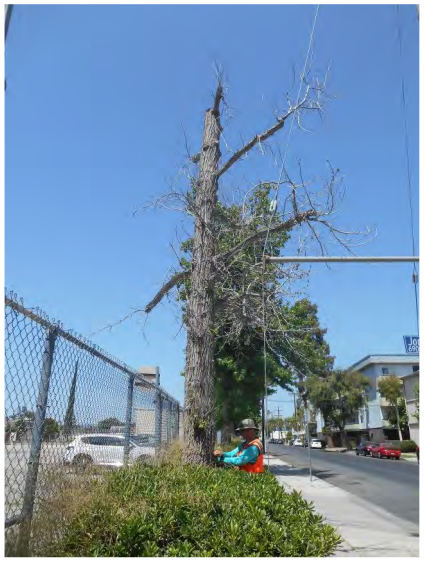
Trees 252-254 (L-R)



Trees 255-257 (L-R)



Tree 258



Tree 259



Tree 260



Tree 261



Tree 262(L), 263(R)



Trees 264-266 (L-R)

HEALTH AND STRUCTURE GRADE DEFINITIONS

Health and structure ratings of the trees are based on the archetype tree of the same species through a subjective evaluation of its physiological health, aesthetic quality, and structural integrity.

Overall physiological condition (health) and structural condition were rated A-F:

Health

A. Outstanding – Exceptional trees of good growth form and vigor for their age class; exhibiting very good to excellent health as evidenced by normal to exceptional shoot growth during current season, good bud development and leaf color, lack of leaf, twig or branch dieback throughout the crown, and the absence of decay, bleeding, or cankers. Common leaf and/or twig pests may be noted at very minor levels.

B. Above average – Good to very good trees that exhibit minor necrotic or physiological symptoms of stress and/or disease; shoot growth is less than reasonably expected, leaf color is less than optimal in some areas, the crown may be thinning, minor levels of leaf, twig, and branch dieback may be present, and minor areas of decay, bleeding, or cankers may be manifesting. Minor amounts of epicormic growth may be present. Minor amounts of fire damage or mechanical damage may be present. Still healthy, but with moderately diminished vigor and vitality. No significant decline noted.

C. Average – Average, moderately good trees whose growth habit and physiological or fire-induced symptoms indicate an equal chance to either decline or continue with good health into the near future. Most of these trees exhibit moderate to significant small deadwood in outer crown areas, decreased shoot growth and diminished leaf color and mass. Some stem and branch dieback is usually present and epicormic growth may be moderate to extensive. Cavities, pockets of decay, relatively significant fire damage, bark exfoliation, or cracks may be present. Moderate to significant amounts of insect or disease symptoms may be present; the tree may be shaded or crowded in such a way that it is expected to negatively impact the lifespan of the tree. Tree may be in early decline.

D. Below Average/Poor - trees whose growth habit and physiological or fire-induced symptoms indicate significant, irreversible decline. Most of these trees exhibit significant dieback of wood in the crown, possibly accompanied by significant epicormic sprouting. Shoot growth and leaf color and mass is either significantly diminished or nonexistent throughout the crown. Cavities, pockets of decay, significant fire damage, bark exfoliation, and/or cracks may be present. Significant amounts of insect or disease symptoms may be present; the tree may be shaded or crowded in such a way that it has negatively impacted the lifespan of the tree. Tree appears to be in irreversible decline.

F. Dead or in spiral of decline – this tree exhibits very little to no signs of life.

Structure

A. Outstanding – Trees with outstanding structure for their species exhibit trunk and branch arrangement and orientation that result in a sturdy form or architecture that resists failure under normal circumstances. The spacing, orientation, and size of the branches relative to the trunk are quintessential for the species and free from defects. No outward sign of decay or pathological disease is present. Some trees exhibit naturally inherent branching defects, like multiple, narrow points of attachment from one point on the trunk, which would preclude them from achieving an “A” grade.

B. Above average - Trees with good to very good structure for their species. They exhibit trunk and branch arrangement and orientation that result in a relatively sturdy form or architecture that resists failure under

normal circumstances, but may have some mechanical damage, over-pruning, or other minor structural defects. The spacing, orientation, and size of the branches relative to the trunk are still in the normal range for the species, but they exhibit a minor degree of defects. Minor, sub-critical levels of decay or pathological disease may be present, but the degree of damage is not yet structurally significant. Trees that exhibit naturally inherent branching defects, like multiple, narrow points of attachment from one point on the trunk, would generally fall in to this category. A small percentage of the canopy may be shaded or crowded, but not in such a way that it is expected to negatively impact the structural integrity or lifespan of the tree.

C. Average - Trees with moderately good structure for their species, but with obvious defects. They exhibit trunk and branch arrangement and orientation that result in a less than sturdy form or architecture, which reduces their resistance to failure under normal circumstances. Moderate levels of mechanical damage, over-pruning, or other structural defects may be present. The spacing, orientation, and size of some of the branches relative to the trunk are not in the normal range for the species. Moderate to significant levels of decay or pathological disease may be present that increase the likelihood of structural instability. Influences such as an excessive trunk lean, slope erosion, root pruning, or other growth-inhibiting factors may be present. A moderate to significant percentage of the canopy may be shaded or crowded in such a way that it is expected to negatively impact the structural integrity or lifespan of the tree. Risk of full or partial failure in the near future appears to be moderately elevated.

D. Well Below Average/Poor - Trees poor structure for their species and with obvious defects. They exhibit trunk and branch arrangement and orientation that result in a significantly less than sturdy form or architecture, significantly reducing their resistance to failure under normal circumstances. Significant levels of mechanical damage, over-pruning, or other structural defects may be present. The spacing, orientation, and size of many of the branches relative to the trunk are not in the normal range for the species. Significant levels of decay or pathological disease may be present that increase the likelihood of structural instability. Influences such as an excessive trunk lean, slope erosion, root pruning, or other growth-inhibiting factors may be present. A significant percentage of the canopy may be shaded or crowded in such a way that it is expected to negatively impact the structural integrity or lifespan of the tree. Risk of full or partial failure in the near future appears to be advanced.

F. Severely Compromised – trees with very poor structure and numerous or severe defects due to growing conditions, historical or recent pruning, mechanical damage, history of limb or trunk failures, advanced and irreparable decay, disease, or severe fire damage. Trees with this rating are in severe, irreparable decline, or are barely alive. Risk of full or partial failures in the near future may be severe.

ARBORIST DISCLOSURE STATEMENT

Arborists are tree specialists who use their education, knowledge, training and experience to examine trees, recommend measures to enhance the beauty and health of trees, and attempt to reduce the risk of living near trees. Clients may choose to accept or disregard the recommendations of the arborist, or to seek additional advice.

Arborists cannot detect every condition that could possibly lead to the structural failure of a tree. Trees are living organisms that fail in ways we do not fully understand. Conditions are often hidden within trees and below ground. Arborists cannot guarantee that a tree will be healthy or safe under all circumstances, or for a specified period of time. Likewise, remedial treatments, like any medicine, cannot be guaranteed.

Treatment, pruning and removal of trees may involve considerations beyond the scope of the arborist's services such as property boundaries, property ownership, site lines, disputes between neighbors, and other issues. Arborists cannot take such considerations into account unless complete and accurate information is disclosed to the arborist. An arborist should then be expected to reasonably rely upon the completeness and accuracy of the information provided.

Trees contribute greatly to our enjoyment and appreciation of life. Nonetheless, they are subject to the laws of gravity and physiological decline. Therefore, neither arborists nor tree owners can be reasonably expected to warrant unfailing predictability or elimination of risk.

Trees can be managed, but they cannot be controlled. To live near trees is to accept some degree of risk. The only way to eliminate all risk associated with trees is to eliminate all trees.

Risk assessments were neither requested nor performed on any of the trees for this project.

CY CARLBERG
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Education
B.S., Landscape Architecture, California State Polytechnic University, Pomona, 1985
Graduate, Arboricultural Consulting Academy, American Society of Consulting Arborists, Chicago, Illinois, February 2002
Graduate, Municipal Forestry Institute, Lied, Nebraska, 2012

Experience
Consulting Arborist, Carlberg Associates, 1998-present
Manager of Grounds Services, California Institute of Technology, Pasadena, 1992-1998
Director of Grounds, Scripps College, Claremont, 1988-1992

Certificates
Certified Arborist (#WE-0575A), International Society of Arboriculture, 1990
Registered Consulting Arborist (#405), American Society of Consulting Arborists, 2002
Certified Urban Forester (#013), California Urban Forests Council, 2004
Qualified Tree Risk Assessor, International Society of Arboriculture, 2011

AREAS OF EXPERTISE

Ms. Carlberg is experienced in the following areas of tree management and preservation:

- Tree health and risk assessment
- Master Planning
- Historic landscape assessments, preservation plans, reports
- Tree inventories and reports to satisfy jurisdictional requirements
- Expert Testimony
- Post-fire assessment, valuation, and mitigation for trees and native plant communities
- Value assessments for native and non-native trees
- Pest and disease identification
- Guidelines for oak preservation
- Selection of appropriate tree species
- Planting, pruning, and maintenance specifications
- Tree and landscape resource mapping – GPS, GIS, and AutoCAD
- Planning Commission, City Council, and community meetings representation

PREVIOUS CONSULTING EXPERIENCE

Ms. Carlberg has overseen residential and commercial construction projects to prevent damage to protected and specimen trees. She has thirty-five years of experience in arboriculture and horticulture and has performed tree health evaluation, value and risk assessment, and expert testimony for private clients, government agencies, cities, school districts, and colleges. Representative clients include:

The Huntington Library and Botanical Gardens
The Los Angeles Zoo and Botanical Gardens
The Rose Bowl and Brookside Golf Course, Pasadena
Walt Disney Concert Hall and Gardens
The Art Center College of Design, Pasadena
Pepperdine University
Loyola Marymount University
The Claremont Colleges (Pomona, Scripps, CMC, Harvey Mudd, Claremont Graduate University, Pitzer, Claremont University Center)
Quinn, Emanuel, Urquhart and Sullivan (attorneys at law)
Getty Trust – Eames House
Historic Resources Group
The City of Claremont
The City of Beverly Hills
The City of Pasadena
The City of Los Angeles
The City of Santa Monica
Santa Monica/Malibu Unified School District
San Diego Gas & Electric
Los Angeles Department of Water and Power
Rancho Santa Ana Botanic Garden, Claremont
Latham & Watkins, LLP (attorneys at law)
Architectural Resources Group
AHBE Landscape Architects
Moule and Polyzoides, Architects and Urbanists

AFFILIATIONS

Ms. Carlberg serves with the following national, state, and community professional organizations:

- California Urban Forests Council, Board Member, 1995-2006
- Street Tree Seminar, Past President, 2000-present
- American Society of Consulting Arborists Academy, Faculty Member, 2003-2005; 2014
- American Society of Consulting Arborists, Board of Directors, 2013-2015
- Member, Los Angeles Oak Woodland Habitat Conservation Strategic Alliance, 2010-present

APPENDIX C

Cultural Resources Phase I Assessment

September 22, 2023

LAUSD Office of Environmental Health and Safety
333 South Beaudry Avenue, 21st Floor
Los Angeles, California 90017

Attn: Mr. Julian Capata, CEQA Project Manager

Subj: Cultural Resources Phase I Assessment for Canoga Park High School – Major Modernization Project *(Envicom Project #2023-073-01)*

Dear Mr. Capata:

Envicom Corporation (Envicom) has completed a Phase I Cultural Resource Assessment for the Canoga Park High School – Major Modernization Project (Project) located in the City of Los Angeles, within the County of Los Angeles, California (**Figure 1** and **Figure 2**). The Project will remove existing buildings, construct new buildings, and upgrade infrastructure on the current Los Angeles Unified School District (LAUSD) property. The general location of the Project is as follows:

United States Geological Survey 7.5' Quadrangles: Canoga Park
Township: 2 North Range: 16 West
Latitude: 34°11'43.39"North Longitude: 118°36'19.21"West

The Phase I Cultural Resource Assessment included a cultural resource record search conducted by the South Central Coastal Information Center (SCCIC) and a Native American cultural resource record search conducted by the California Native American Heritage Commission (NAHC). Both record searches examined the Project property plus a 0.25-mile buffer area ("study area") around the Project site (see Figure 1). The purpose of a cultural resource record search is to identify any known cultural resources previously recorded within or immediately adjacent to the proposed Project development site, to provide cultural resource context for the Project from the examination of the study area, and to assess the overall cultural resource sensitivity of the Project region.

Additional databases examined during the Phase I cultural resource assessment included historical regional maps, historical United States Geological Survey (USGS) maps, and historical Google Earth images. The University of California Santa Barbara (UCSB) Library Historical Aerial Photograph Database was also examined. Since the cultural resource assessment was negative for cultural resources within or adjacent to the Project development site, a letter report format will be used for the cultural resource report (this document). Because fossil resources were also of concern for the Project, the Natural History Museum of Los Angeles County (NHM) was also asked to examine their database of fossil resources for previously discovered fossils on or near the subject property.

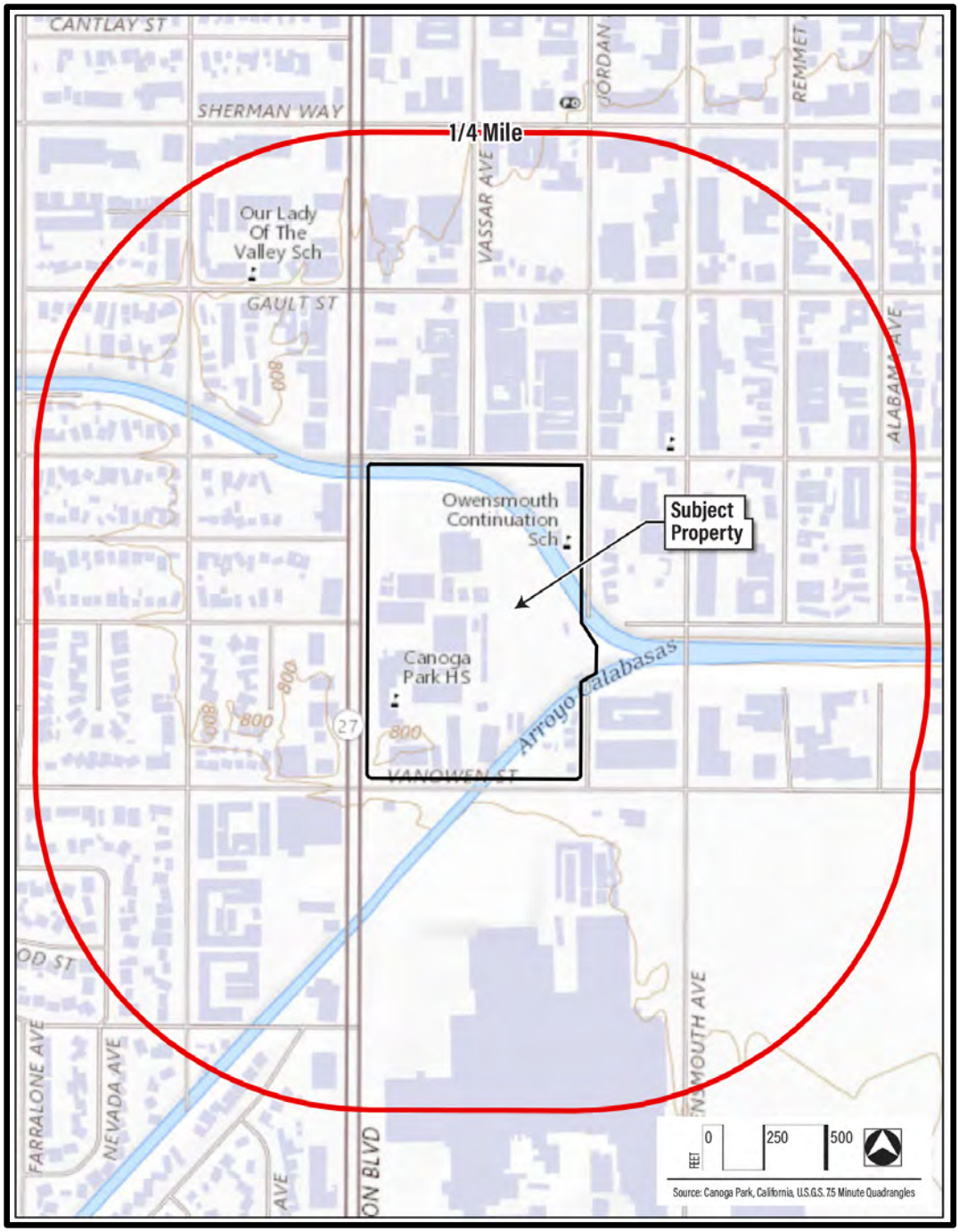


Figure 1: Project location in Los Angeles County, California, with the 0.25-mile study area shown (2023 Canoga Park Quadrangle Topographic Map).



Figure 2: The Project site, showing the current site conditions (2020 Google Earth Image).

A cultural resource is often defined as any building, structure, object, or archaeological site older than 50-years in age and can include historical or prehistoric locations of human habitation or occupation. This definition is provided by the California Office of Historic Preservation guidelines, United States Department of the Interior guidelines, and as per *36 Code of Federal Regulations 60.4* of the National Register criteria.

The Phase I cultural resource assessment also often includes a pedestrian survey of the Project property. However, due to the urban nature of the property, a pedestrian survey was not conducted for the Project, and a desktop examination ("desktop survey") of the site was instead conducted. The Phase I cultural resource assessment additionally often includes a discussion of built environment cultural resources found on the subject property or in the surrounding study area. However, a separate, stand-alone built environment resource report was produced by Sapphos Environmental, Inc. in 2014 with the findings published in a document titled *Los Angeles Unified School District Historic Resources Survey Report*. This built environment report assessed the Canoga Park High School and associated historical structures. The findings from this report will be presented in the Project entitlement documents and not duplicated in this cultural resource report.

RECORD SEARCH RESULTS

SCCIC and NAHC Record Searches

On July 11, 2023, Envicom submitted a request to the SCCIC to conduct a search of their database for previously recorded cultural resources located within the Project property, and within the surrounding Project study area (defined as the Project development site, plus a 0.25-mile buffer area) for regional cultural resource context (see Figure 1). The record search included a request for all previously recorded cultural resource site records within or adjacent to the Project site, as well as copies of all cultural resource technical reports that intersected with all or part of the Project development site. Envicom also contacted the NAHC on July 11, 2023, with a similar record search request to examine their sacred lands files for tribal cultural resources located on the Project property or within the surrounding study area.

Envicom received the cultural resource records search results from the SCCIC on August 20, 2023. The SCCIC record search found no previously recorded cultural resources located within the Project property, however three (3) previously recorded cultural resources were located within the 0.25-mile surrounding study area. The three cultural resources are all historical buildings, which will have no effect on the Project. Again, all built environment concerns for the Project area assessed in the Sapphos 2014 report.

The SCCIC found no previously cultural resource report that involved the Project property, however, seven (7) cultural resource reports that involved part of the Project 0.25-mile study area were identified. Review of these reports did not recognize any specific cultural or historical resources of concern for the Project. All relevant cultural resource reports provided by the SCCIC are summarized in **Appendix A** of this report.

The results from the 2023 NAHC record search were received on August 13, 2023, with negative findings. If the Lead/Permitting Agency for the Project is required to perform an Assembly Bill

(AB)-52 process, the NAHC letter should be made a part of the Native American consultation record. Envicom did not contact Native American groups on the NAHC list, as communications with Tribal Group representatives is the responsibility of the Lead/Permitting Agency, if required for this Project.

Examination of the State of California SCCIC database of previously recorded cultural resources and the NAHC Sacred Lands database were both, therefore, ***negative for cultural resources within the Project development site.*** Any findings from the SCCIC as to the physical location of cultural resources, except for public-knowledge built environment resources, is considered confidential by state law and are, therefore, not included in this report. Copies of the request letter to the SCCIC and NAHC are included in **Appendix B** of this report, as are the response letters from the NAHC. The Principal Author's resume is provided in **Appendix C**.

Historical Site Information

The Phase I Environmental Site Assessment Report (ESA), produced by ECO and Associates for the Project in 2019, has an excellent history of the Project property and the development of the Canoga High School campus. This history reads as follows:

> "Based on data collected during this assessment, the Site was undeveloped and vacant up to approximately 1914. In 1915, the Site was developed as Owensmouth High School with a single relatively large building (main classroom and administration building) located on the northwestern part of the property. Since 1931, the school has been referred to as Canoga Park High School.
>
> "In 1928, the school was comprised of a relatively large main building (main classroom and administration building) and three smaller buildings south of the main building located in the Site's northwestern portion including the Girls Gym building. The eastern half of the Site was primarily open land, with an agricultural grove in the southeast portion, and Bell Creek and Calabasas Creek, both creeks flowing toward the east. Between 1928 and 1938, two additional large school buildings, facing Topanga Canyon Boulevard and used as administration and for classrooms, were added in the southwest portion of the Site. Within that same period, the oval athletic track was moved to its current location in the central portion of the east half of the Site.
>
> "In 1939, the assembly hall was added on the Site's southwestern portion. Between 1952 and 1959, the original large school building and another small building, located in the northwest portion of the Site, were removed and converted to an athletic field. Between 1954 and 1958, the Cafeteria, the Boys Physical Education building, Class Room Building (Clrm Bldg) #2, Shop #2, and four storage buildings located south of the oval athletic track field were added. In 1960 and 1968, Clrm Bldg #3, the Music Building, Storage Unit Building #014DOP, and Clrm Bldg #4 were added.
>
> "During the period between 1974 and 1979, a major remodeling occurred that included removal of the two large main school buildings located on the southwest portion of the Site

facing Topanga Canyon Boulevard as well as the cement concrete walks connecting the buildings. These were replaced by two other large buildings referred to as building Unit #1 and building Unit #2."

Historical Map Database Search

Examination of historic maps included seventeen (17) historical USGS maps, dating to between 1903 and 1979. The 1903 Calabasas USGS map shows no improvement within the Project development site but does show a dirt road near the Project property (**Figure 3**). The 1925 Dry Canyon USGS map shows the north part of the property as developed with a school building, with two additional structures on the property (**Figure 4**). The 1932 Dry Canyon USGS map shows the same buildings associated with the school, with two additional school campus buildings to the south (**Figure 5**). The oldest aerial photograph in the UCSB Library historic aerial photography database is from 1939 (**Figure 6**). This photo shows the Project property as fully developed with school campus buildings and support features, with additional residential and commercial buildings in the surrounding region.

The 1952 Canoga Park USGS map shows the Project site as fully developed, with the Canoga High School campus consisting of several larger buildings and multiple smaller structures (**Figure 7**). Examination of historic Google Earth satellite images show the Project site and surrounding region from 1985 to present, with constant in-filling of the region with residential and commercial development. The Project property is shown to be fully developed in 1989, however, the oldest building in the northern part of the property, which was still visible in 1952, is no longer present (**Figure 8**).

Based on the ESA history and the historical maps and aerial images, the oldest historical structures that have been located on the property date to 1915, with several additional buildings being added to the site prior to World War II (1945), including the 1939 auditorium building. Since the period of sensitivity for older historical cultural resources is often noted as being before the post-World War II economic and population expansion in Southern California, the Project property should be considered as being sensitive for older cultural resources.

The examination of historical map and aerial photograph databases was, therefore, ***positive for the potential for older historical cultural resources being found within the Project development site during Project subsurface construction***. No other pre-construction phase assessment tasks are recommended by Envicom. However, when Project sites are considered to be sensitive for older historical cultural resources, Envicom recommends monitoring of subsurface grading and trenching activities during the Project construction-phase.

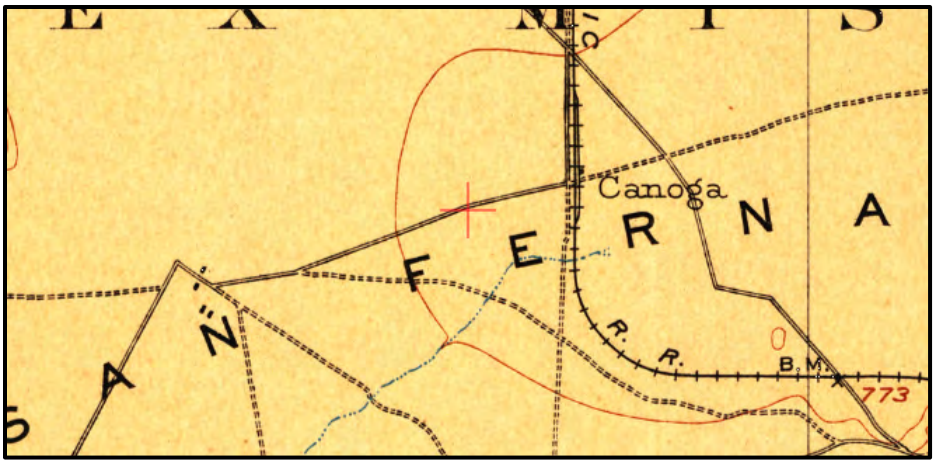


Figure 3: The 1903 Calabasas USGS Map
(red cross marks the general Project location).

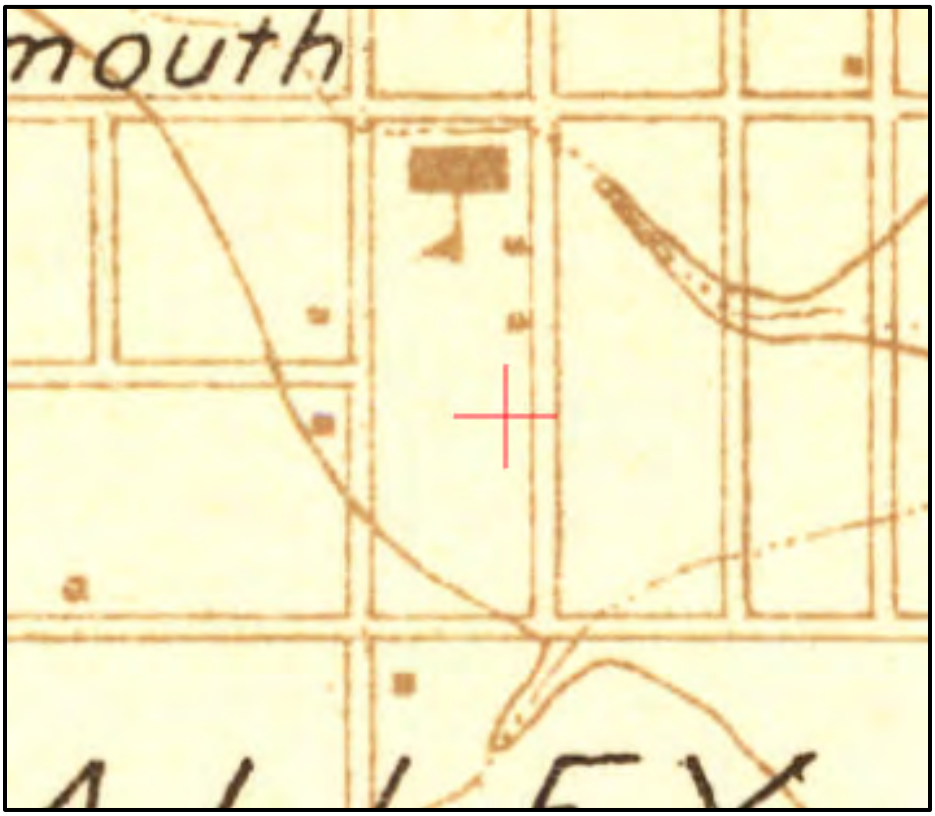


Figure 4: The 1925 Dry Canyon USGS Map
(red cross marks the general Project location).



Figure 5: The 1932 Dry Canyon USGS Map (red cross marks the Project location).



Figure 6: The Project site (center) in a 1939 image, showing multiple school buildings and support features on the subject property (UCSB Historic Aerial Image Database).

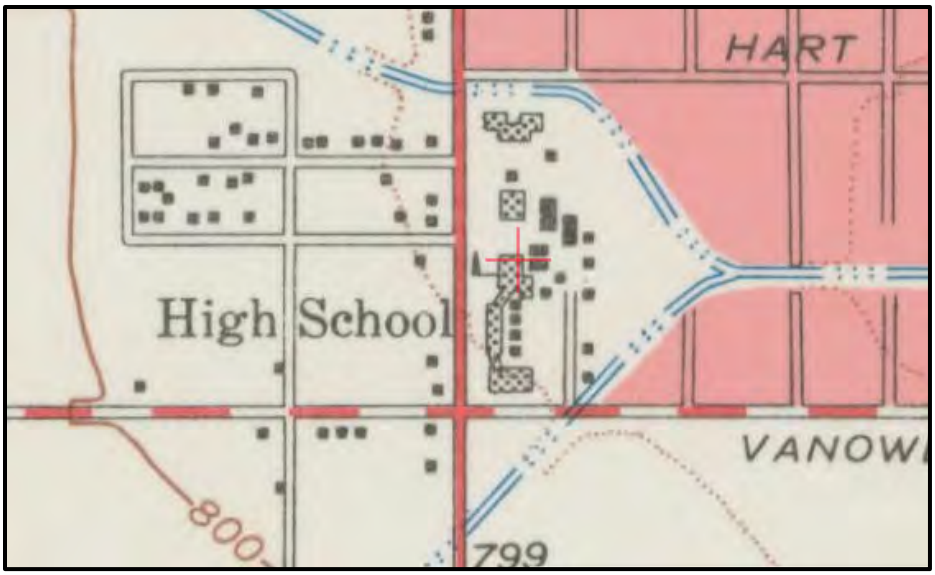


Figure 7: The 1952 Canoga Park USGS Map (red cross marks the Project location).



Figure 8: The Project property in 1989; note that the northern building is no longer present on the property (Google Earth Image).

Desktop Survey Results

The Project site is currently a fully developed high school campus, with numerous educational buildings that have been constructed during different time periods. Several support structures and other facilities are also found on the property, including maintenance buildings, a soccer field, basketball courts, and an oval track (**Figure 9, Figure 10**, **Figure 11**, and **Figure 12**). The desktop survey of the property did not identify any areas of concern regarding cultural resources, such as large undisturbed open space areas or visible rock outcrops. The desktop survey results were, therefore, ***negative for observable cultural resource issues within the Project site***.



Figure 9: Overview showing the Project site.

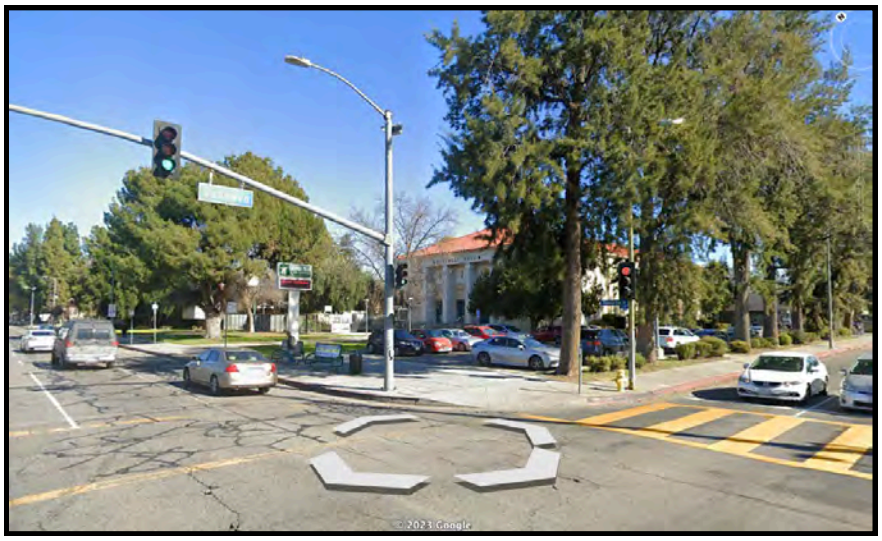


Figure 10: Overview showing the Project site southeast corner.

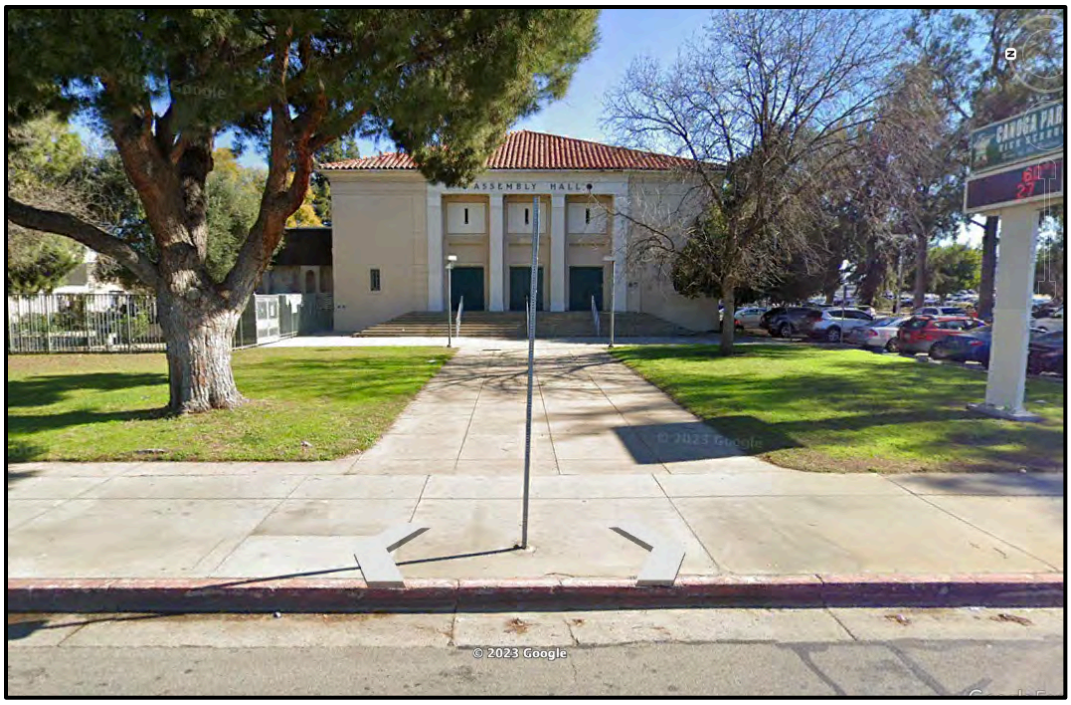


Figure 11: The 1939 Canoga High School Auditorium.



Figure 12: Overview showing the Project site from a different direction.

Paleontological Record Search Results

Envicom contacted the NHM on July 11, 2023, with a request to examine their fossil locality records to assess whether fossils had been found in the past on the Project property. The NHM also provides an overall sensitivity assessment for the Project region, which can then be used to determine whether further assessment of the project is needed for paleontological resources, or whether monitoring is recommended.

The NHM record search findings were received on July 16, 2023. No fossil resources had been found on the subject property, however, the NHM indicated that the Project is located within a region considered to be sensitive for paleontological resources. The NHM recommended that a paleontological assessment of the area by a paleontologist meeting the Bureau of Land Management of Society of Vertebrate Paleontology standards. As this is a standard NHM recommendation, and due to the developed nature of the Project property that has no exposed rock units or bedrock formations, Envicom does not recommend the production of a separate paleontological report for the Project. Finally, the NHM recommended that, if fossils were found during construction, that a sediment sample is collected with the fossil. The response letter from the NHM is also located in Appendix B of this report.

The Project geological report, titled *Preliminary Geotechnical Evaluation, Canoga Park High School, Major Modernization, 6850 Topanga Canyon Boulevard, Canoga Park, California,* and written in 2022 by Gorian and Associates, indicated that the entire property was located over Holocene (modern) alluvial deposits (**Figure 13**). The report also indicated that construction would mostly be within current building footprints and terrain cuts, indicating that Project features that normally encounter deeper rock formations, such as underground garage levels, will not be part of the modernization project. Since the Project property is covered with modern alluvial material and Project excavation will not involve exceptional depth, Envicom does not recommend further paleontological assessment or monitoring during site trenching or grading.

RECOMMENDATIONS

The results of the SCCIC and NAHC database record searches were negative for cultural resources within the Project development site. The historical map and aerial photograph database search was, however, positive for the site being sensitive for older historical cultural resources to be encountered during Project grading and excavation. The desktop survey was negative for cultural resource issues, as was the Project paleontological assessment. Envicom does not recommend further assessment of the Project for cultural or paleontological resources, however, Envicom recommends archaeological monitoring during construction activities. Envicom also recommends contingency measures for situations where cultural or fossil resources are unexpectedly encountering during grading.

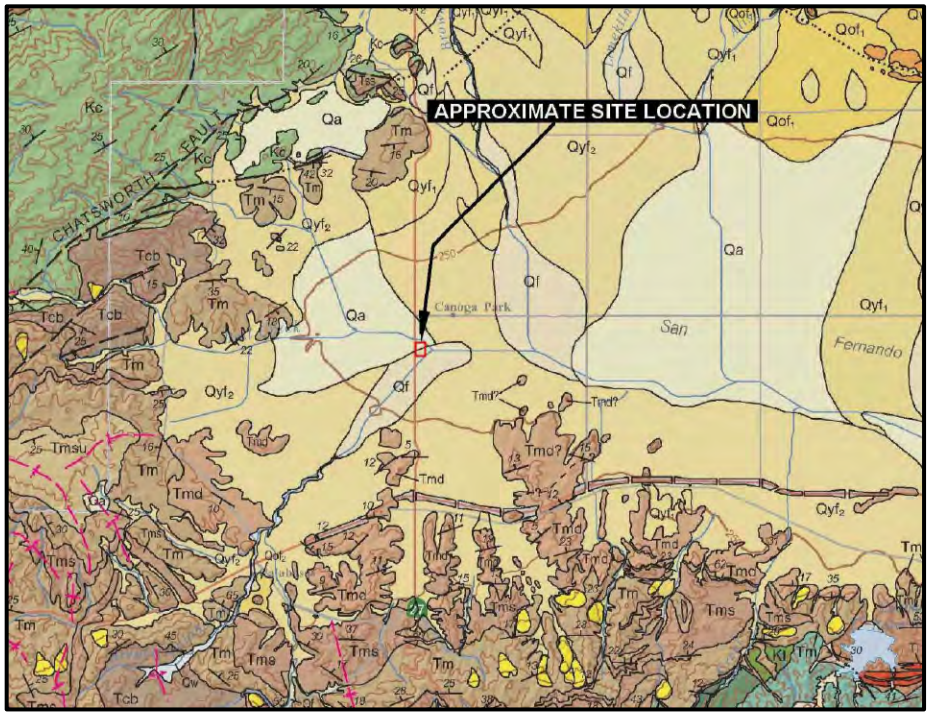


Figure 13: The Project property is located on Holocene (modern) alluvial deposits (from the 2022 Gorian and Associates Project Geotechnical Report)

Recommendation 1: Archaeological Monitoring.

An archaeological monitor that meets the Secretary of Interior qualifications will be on site during grading of the Project site from surface to the bottom of subsurface activity. Fill deposits do not have to be monitored. The purpose of having an archaeologist on site is to assess if any significant cultural resources are encountered during grading. Archaeological monitoring will start with full-time monitoring, however, if the monitoring team determines that native soils have been removed during previous earth moving activities on the site, or if large parts of the site are disturbed or covered with fill, then monitoring can be reduced to spot-check or contingency monitoring only.

The archaeological monitor will collect any diagnostic prehistoric or older historical material uncovered through Project excavation and can halt construction within 50-feet of a potentially significant cultural resource if necessary. Artifacts collected from a disturbed context or that do not warrant additional assessment can be collected without the need to halt grading. Discovery situations that do not lead to further assessment, survey, evaluation, or data recovery can be described in the monitor's daily monitoring log. However, if prehistoric features or older historical features are encountered, the Project "discovery" protocol should be followed (see below). A final Monitoring Report will be produced that discusses all monitoring activities and all artifacts recovered and features identified through monitoring on the Project site. Discovery situations that do not lead to further assessment, survey, evaluation, or data recovery can be described in the final Monitoring Report.

All artifacts recovered that are determined to have historical information value, with diagnostic or location information that may be important to California history, will be cleaned, analyzed, and described within the Monitoring Report. All materials determined important will be curated at an appropriate depository or returned to the landowner for public display if possible. If important materials are found during monitoring, a Curation Plan may be needed that is reviewed by the Lead Agency prior to the publication of the Monitoring Report. The costs of the Monitoring Report, the Curation Plan, and the processing, analysis, and curation of all artifacts will be the responsibility of the applicant.

Recommendation 2: Archaeological or Fossil Resource Discovery Protocol

If potentially significant intact archaeological or fossil deposits are encountered within an undisturbed context, then a cultural/fossil resource "discovery" protocol will be followed. If older historical or prehistoric features, artifact concentrations, or significant fossils are encountered during Project grading within native soils or original context, then all work in that area shall be halted or diverted away from the discovery to a distance of 30-feet until a qualified senior archaeologist/paleontologist can evaluate the nature and/or significance of the find(s). If a senior archaeologist/paleontologist confirms that the discovery is potentially significant, then the Lead/Permitting Agency will be contacted and informed of the discovery.

Construction will not resume at the locality of the discovery until consultation between the senior archaeologist/paleontologist, the owner's Project manager, the Lead/Permitting Agency, and any other concerned parties (such as additional regulatory agencies or Native American Tribal Groups), takes place and reaches a conclusion approved by the Lead/Permitting Agency. If a significant cultural or fossil resource is discovered during earth-moving, complete avoidance of the find is preferred. However, if the discovery cannot be avoided, further survey work, evaluation tasks, or data recovery of the significant resource may be required by the Lead/Permitting Agency. The Lead/Permitting Agency may also require additional site monitoring, based on the discovery. All individual reports will be submitted to the SCCIC or to the NHM at the conclusion of the Project.

Recommendation 3: Inadvertent Discovery of Human Remains

The inadvertent discovery of human remains is always a possibility during ground disturbances; State of California Health and Safety Code Section 7050.5 addresses these findings. This code section states that in the event human remains are uncovered, no further disturbance shall occur until the County Coroner has made a determination as to the origin and disposition of the remains pursuant to California Public Resources Code Section 5097.98. The Coroner must be notified of the find immediately, together with the City and the property owner.

If the human remains are determined to be prehistoric, the Coroner will notify the NAHC, which will determine and notify a Most Likely Descendant (MLD). The MLD shall complete the inspection of the site within 48 hours of notification and may recommend scientific removal and nondestructive analysis of human remains and items associated with Native American burials and

an appropriate re-internment site. The Lead/Permitting Agency and a qualified archaeologist shall also establish additional appropriate mitigation measures for further site construction.

Sincerely,

Dr. Wayne Bischoff, Principal

ATTACHMENTS:

Appendix A: List of Previously Completed Cultural Resource Reports in the Project Site and Surrounding Study Area
Appendix B: SCCIC and the NAHC Request Letters, and the NAHC Response Letter
Appendix C: Resume of Dr. Wayne Bischoff (Principal)

APPENDIX A
List of Previously Completed Cultural Resource Reports in the Project Site and Surrounding Study Area

Report List

Report No.	Other IDs	Year	Author(s)	Title	Affiliation	Resources
LA-03565		1996	Romani, John F.	Results of Phase I Archaeological Surveys Located at 12793 Mercer Street, Pacoima, and 7006 Alabama Avenue/21429 Hart Street, Canoga Park, Los Angeles County, California	Compass Rose Archaeological, Inc.	
LA-03635		1973	Anonymous	Draft Master Environmental Assessment Warner Center Woodland Hills, California a Development of Kaiser Aetna	Ultra Systems, Inc.	
LA-04408		1999	Duke, Curt	Cultural Resource Assessment for the At&t Wireless Services Facility Number 617.3, Located at 22030 Sherman Way, Canoga Park, City and County of Los Angeles, California	LSA Associates, Inc.	
LA-05052		1999	Romani, John F. and Dan A. Larson	Negative Archaeological Survey Report at 6823 Owensmouth Avenue, in Canoga Park	Compass Rose Archaeological, Inc.	
LA-10578		2009	Fortier, Jana	TEA21 Rural Roadside Inventory: Native American Consultation and Ethnographic Study Caltrans District 7, County of Los Angeles	ICF Jones & Stokes	
LA-10665		2010	Bonner, Wayne	Cultural Resources Records search, Site Visit Results, and Direct APE Historic Architectural Assessment for Clearwire Candidate CA-LOS6381A/LA02YC38 (6903 Topanga Canyon), 6903 North Topanga Canyon Boulevard, Canoga Park, Los Angeles County, California	Michael Brandman Associates	19-188846
LA-12363		2013	Bonner, Wayne and Crawford, Kathleen	Cultural Resources Records Search and Site Visit Results for T-Mobile West, LLC Candidate SV00178A (LA178 LA 178-00PB), 22012 Vanowen Avenue, Canoga Park, Los Angeles County, California	EAS	19-188846, 19-190595

APPENDIX B
SCCIC and NAHC Request Letters, and the NAHC Response Letter

California Historical Resources Information System

CHRIS Data Request Form

ACCESS AND USE AGREEMENT NO.: _____ **IC FILE NO.:** _____

To: Information Center

Print Name: Samantha Renta Date: 7/11/23

Affiliation: Envicom Corporation

Address: 4165 E. Thousand Oaks Blvd

City: Westlake Village State: CA Zip: 91362

Phone: 818-879-4700 Fax: _____ Email: srenta@envicomcorporation.com

Billing Address (if different than above): _____

Billing Email: wbischoff@envicomcorporation.com Billing Phone: 818-879-4700

Project Name / Reference: Canoga Park High School Project, 2023-073-01

Project Street Address: _____

County or Counties: Los Angeles

Township/Range/UTMs: T 2N, R 16W, 34.11'43.39"N, 118.36'19.21"W

USGS 7.5' Quad(s): Canoga Park

PRIORITY RESPONSE (Additional Fee): yes ☐ / no ☐

TOTAL FEE NOT TO EXCEED: $_____
(If blank, the Information Center will contact you if the fee is expected to exceed $1,000.00)

Special Instructions:

Information Center Use Only

Date of CHRIS Data Provided for this Request: _____

Confidential Data Included in Response: yes ☐ / no ☐

Notes: _____

CHRIS Data Request Form

Mark the request form as needed. Attach a PDF of your project area (with the radius if applicable) mapped on a 7.5' USGS topographic quadrangle to scale 1:24000 ratio 1:1 neither enlarged nor reduced and include a shapefile of your project area, if available. Shapefiles are the current CHRIS standard for submitting digital spatial data for your project area or radius. **Check with the appropriate IC for current availability of digital data products.**

- Documents will be provided in PDF format. Paper copies will only be provided if PDFs are not available at the time of the request or under specially arranged circumstances.
- Location information will be provided as a digital map product (Custom Maps or GIS data) unless the area has not yet been digitized. In such circumstances, the IC may provide hand drawn maps.
- In addition to the $150/hr. staff time fee, client will be charged the Custom Map fee when GIS is required to complete the request [e.g., a map printout or map image/PDF is requested and no GIS Data is requested, or an electronic product is requested (derived from GIS data) but no mapping is requested].

For product fees, see the CHRIS IC Fee Structure on the OHP website.

1. Map Format Choice:

Select One: Custom GIS Maps ☐ GIS Data ☑ Custom GIS Maps **and** GIS Data ☐ No Maps ☐

Any selection below left unmarked will be considered a "no. "

Location Information:

	Within project area	Within 0.25 mi. radius
ARCHAEOLOGICAL Resource Locations[1]	yes ☑ / no ☐	yes ☑ / no ☐
NON-ARCHAEOLOGICAL Resource Locations	yes ☑ / no ☐	yes ☑ / no ☐
Report Locations[1]	yes ☑ / no ☐	yes ☑ / no ☐
"Other" Report Locations[2]	yes ☐ / no ☐	yes ☐ / no ☐

3. Database Information:
(contact the IC for product examples, or visit the SSJVIC website for examples)

	Within project area	Within 0.25 mi. radius
ARCHAEOLOGICAL Resource Database[1]		
List (PDF format)	yes ☑ / no ☐	yes ☑ / no ☐
Detail (PDF format)	yes ☑ / no ☐	yes ☑ / no ☐
Excel Spreadsheet	yes ☐ / no ☑	yes ☐ / no ☑
NON-ARCHAEOLOGICAL Resource Database		
List (PDF format)	yes ☑ / no ☐	yes ☑ / no ☐
Detail (PDF format)	yes ☑ / no ☐	yes ☑ / no ☐
Excel Spreadsheet	yes ☐ / no ☑	yes ☐ / no ☑
Report Database[1]		
List (PDF format)	yes ☑ / no ☐	yes ☑ / no ☐
Detail (PDF format)	yes ☑ / no ☐	yes ☑ / no ☐
Excel Spreadsheet	yes ☐ / no ☑	yes ☐ / no ☑
Include "Other" Reports [2]	yes ☐ / no ☑	yes ☐ / no ☑

4. Document PDFs (paper copy only upon request)**:**

	Within project area	Within 0.25 mi. radius
ARCHAEOLOGICAL Resource Records[1]	yes ☑ / no ☐	yes ☑ / no ☐
NON-ARCHAEOLOGICAL Resource Records	yes ☑ / no ☐	yes ☐ / no ☑
Reports[1]	yes ☑ / no ☐	yes ☐ / no ☑
"Other" Reports[2]	yes ☑ / no ☐	yes ☐ / no ☑

CHRIS Data Request Form

5. Eligibility Listings and Documentation:

	Within project area	Within 0.25 mi. radius
OHP Built Environment Resources Directory[3]:		
Directory listing only (Excel format)	yes ☐ / no ☑	yes ☑ / no ☐
Associated documentation[4]	yes ☐ / no ☑	yes ☐ / no ☑
OHP Archaeological Resources Directory[1,5]:		
Directory listing only (Excel format)	yes ☑ / no ☐	yes ☐ / no ☑
Associated documentation[4]	yes ☑ / no ☐	yes ☐ / no ☑
***California Inventory of Historic Resources* (1976):**		
Directory listing only (PDF format)	yes ☑ / no ☐	yes ☑ / no ☐
Associated documentation[4]	yes ☑ / no ☐	yes ☑ / no ☐

6. Additional Information:

The following sources of information may be available through the Information Center. However, several of these sources are now available on the OHP website and can be accessed directly. The Office of Historic Preservation makes no guarantees about the availability, completeness, or accuracy of the information provided through these sources. Indicate below if the Information Center should review and provide documentation (if available) of any of the following sources as part of this request.

Caltrans Bridge Survey	yes ☑ / no ☐
Ethnographic Information	yes ☑ / no ☐
Historical Literature	yes ☑ / no ☐
Historical Maps	yes ☐ / no ☑
Local Inventories	yes ☑ / no ☐
GLO and/or Rancho Plat Maps	yes ☑ / no ☐
Shipwreck Inventory	yes ☐ / no ☑
Soil Survey Maps	yes ☐ / no ☑

---

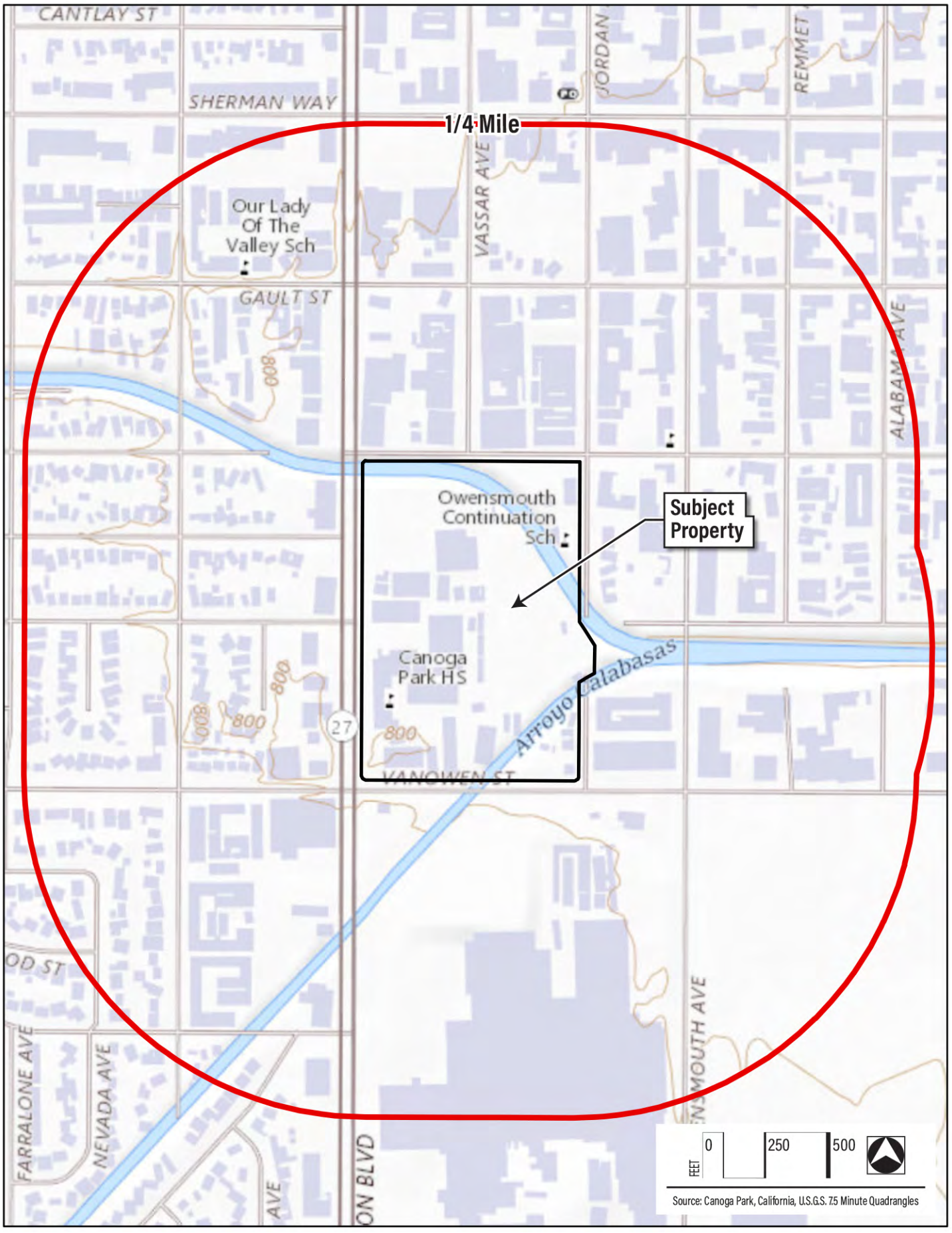
[1] In order to receive archaeological information, requestor must meet qualifications as specified in Section III of the current version of the California Historical Resources Information System Information Center Rules of Operation Manual and be identified as an Authorized User or Conditional User under an active CHRIS Access and Use Agreement.

[2] "Other" Reports GIS layer consists of report study areas for which the report content is almost entirely non-fieldwork related (e.g., local/regional history, or overview) and/or for which the presentation of the study area boundary may or may not add value to a record search.

[3] Provided as Excel spreadsheets with no cost for the rows; the only cost for this component is IC staff time. Includes, but not limited to, information regarding National Register of Historic Places, California Register of Historical Resources, California State Historical Landmarks, California State Points of Historical Interest, and historic building surveys. Previously known as the HRI and then as the HPD, it is now known as the Built Environment Resources Directory (BERD). The Office of Historic Preservation compiles this documentation and it is the source of the official status codes for evaluated resources.

[4] Associated documentation will vary by resource. Contact the IC for further details.

[5] Provided as Excel spreadsheets with no cost for the rows; the only cost for this component is IC staff time. Previously known as the Archaeological Determinations of Eligibility, now it is known as the Archaeological Resources Directory (ARD). The Office of Historic Preservation compiles this documentation and it is the source of the official status codes for evaluated resources.


CANTLAY ST
SHERMAN WAY
1/4 Mile
VASSAR AVE
Our Lady Of The Valley Sch
GAULT ST
ALABAMA AVE
Owensmouth Continuation Sch
Subject Property
Canoga Park HS
Arroyo Calabasas
VANOWEN ST
27
FARRALONE AVE
NEVADA AVE
ON BLVD
FEET
0
250
500
Source: Canoga Park, California, U.S.G.S. 7.5 Minute Quadrangles

July 11, 2023

Native American Heritage Commission
1550 Harbor Boulevard, Room 100
West Sacramento, CA 95691

Subj: Cultural Resources Phase I Assessment for Canoga Park High School Major Modernization Project *(Envicom Project #2023-073-01)*

To Whom It May Concern,

Envicom Corporation (Envicom) is requesting a record review of the Native American Heritage Commission (NAHC) records of cultural resources for the Project site, plus a **0.25-mile study area**. We also request a list of Tribal Group representatives for the area in the event we need to contact their offices. The Project site is located at:

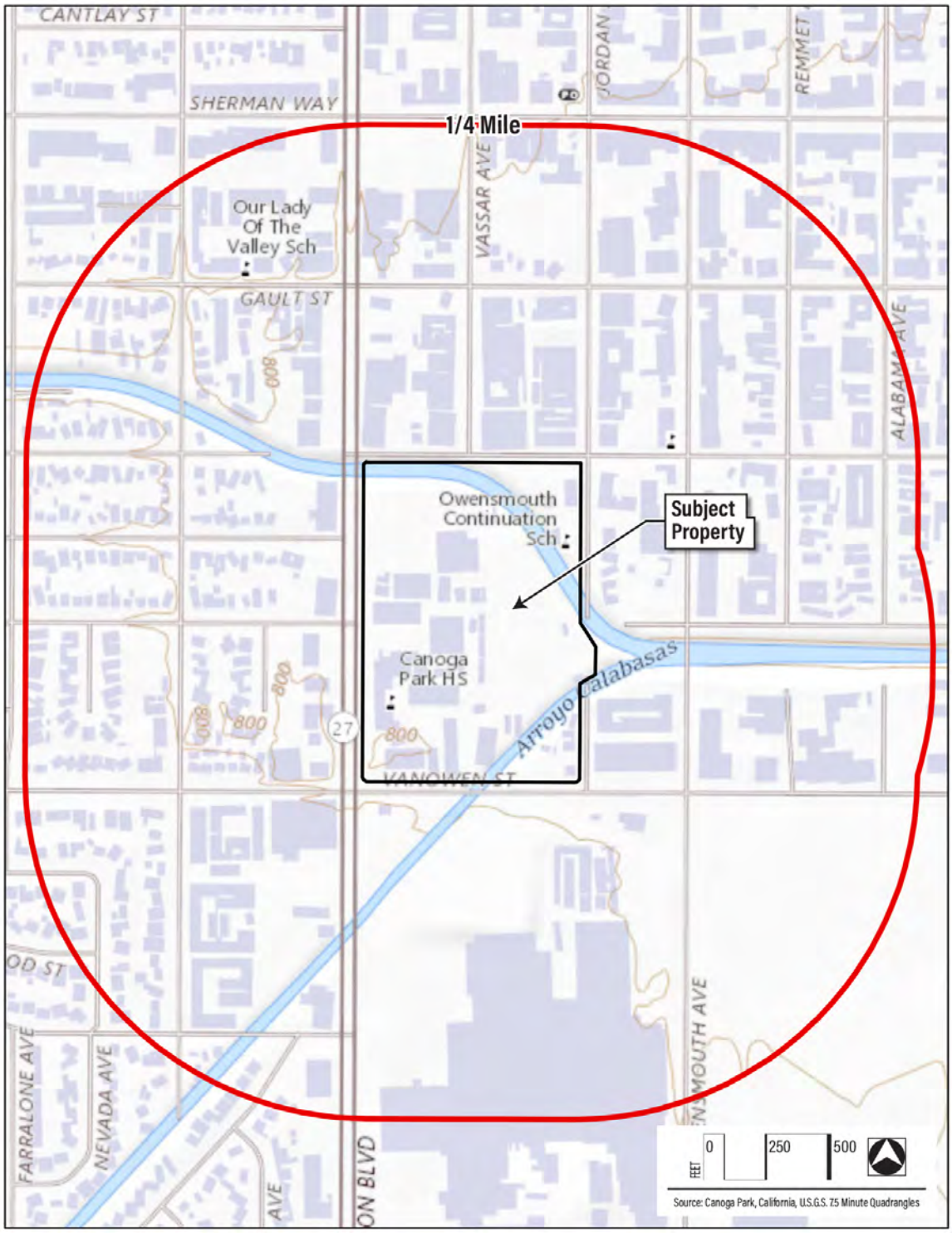
United States Geological Survey 7.5' Quadrangles: Canoga Park
Township: 2 North Range: 16 West
Latitude: 34°11'43.39"North Longitude: 118°36'19.21"West
County: Los Angeles

Envicom appreciates the NAHC's help with this request. For correspondence or questions regarding this Project, please contact Wayne Bischoff at 818-879-4700 (wbischoff@envicomcorporation.com).

Sincerely,

Wayne Bischoff
Director of Cultural Resources

Attachment:
Project vicinity map on 1:24,000 topographic map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FEET
Source: Canoga Park, California, U.S.G.S. 7.5 Minute Quadrangles

July 11, 2023

Natural History Museum of Los Angeles
900 Exposition Blvd.
Los Angeles, CA 90007

Subj: Cultural Resources Phase I Assessment for Canoga Park High School Major Modernization Project *(Envicom Project #2023-073-01)*

To Whom It May Concern,

Envicom Corporation (Envicom) is requesting a record search of the Natural History Museum of Los Angeles County (NHM) database for paleontological resources/sensitivity for the Project site and surrounding area (within 0.25 mile of the Project site), as well as a map/listing of all paleontological resources previously identified within the attached Project site, plus the 0.25-mile study area. The Project site is located at:

United States Geological Survey 7.5' Quadrangles: Canoga Park
Township: 2 North Range: 16 West
Latitude: 34°11'43.39"North Longitude: 118°36'19.21"West
County: Los Angeles

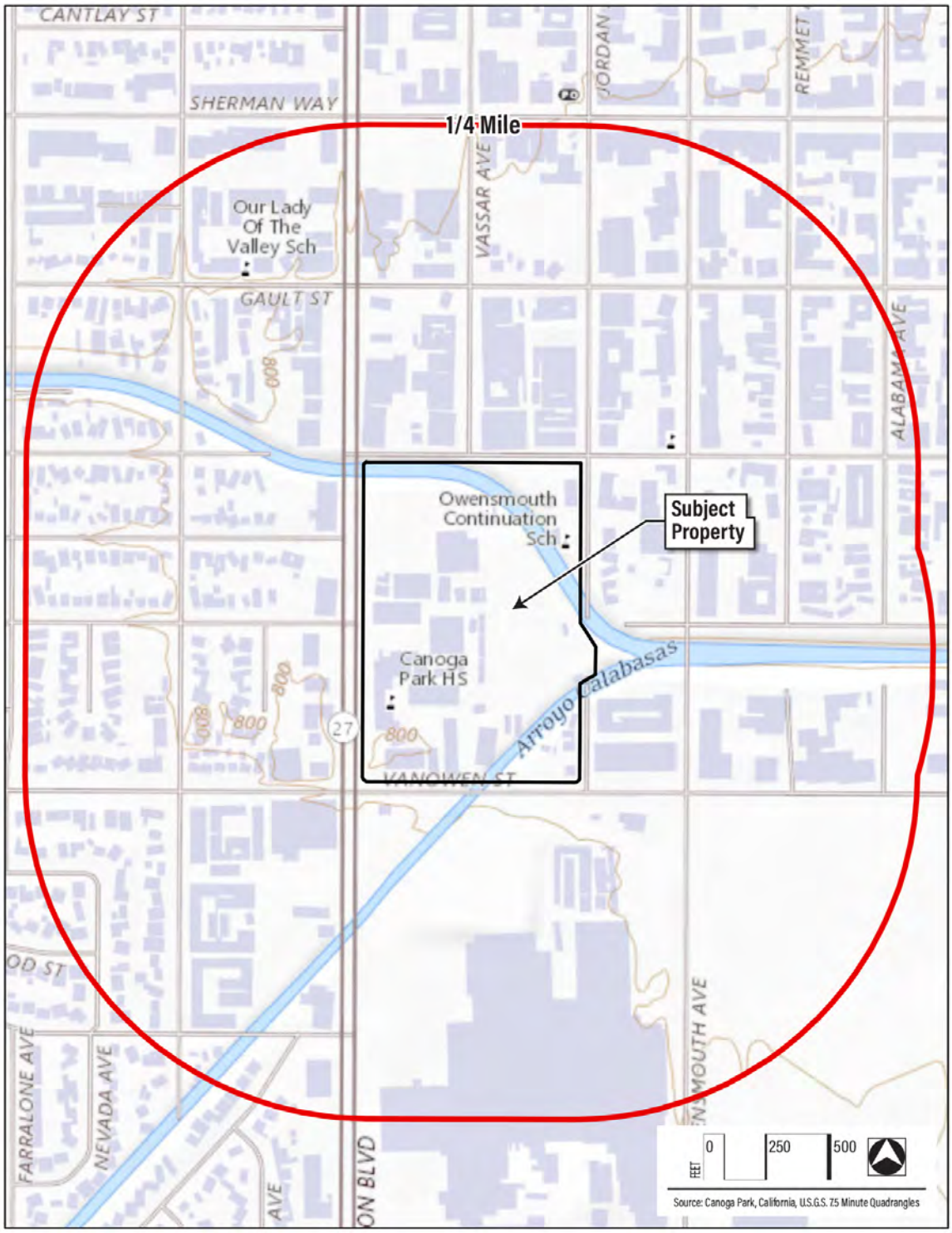
Envicom appreciates the NHM's help with this request. For correspondence or questions regarding this Project, please contact Wayne Bischoff at 818-879-4700 (wbischoff@envicomcorporation.com).

Sincerely,

Wayne Bischoff

Dr. Wayne Bischoff
Director of Cultural Resources

Attachment:
Project vicinity map on 1:24,000 topographic map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Source: Canoga Park, California, U.S.G.S. 7.5 Minute Quadrangles

NATIVE AMERICAN HERITAGE COMMISSION

CHAIRPERSON
Reginald Pagaling
Chumash

VICE-CHAIRPERSON
Buffy McQuillen
Yokayo Pomo, Yuki, Nomlaki

SECRETARY
Sara Dutschke
Miwok

PARLIAMENTARIAN
Wayne Nelson
Luiseño

COMMISSIONER
Isaac Bojorquez
Ohlone-Costanoan

COMMISSIONER
Stanley Rodriguez
Kumeyaay

COMMISSIONER
Vacant

COMMISSIONER
Vacant

COMMISSIONER
Vacant

EXECUTIVE SECRETARY
Raymond C. Hitchcock
Miwok, Nisenan

NAHC HEADQUARTERS
1550 Harbor Boulevard
Suite 100
West Sacramento,
California 95691
(916) 373-3710
nahc@nahc.ca.gov
NAHC.ca.gov

August 11, 2023

Dr. Wayne Bischoff
Envicom Corporation

Via Email to: wbischoff@envicomcorporation.com

Re: Canoga Park High School Major Modernization Project, Los Angeles County

Dear Dr. Bischoff:

A record search of the Native American Heritage Commission (NAHC) Sacred Lands File (SLF) was completed for the information you have submitted for the above referenced project. The results were negative. However, the absence of specific site information in the SLF does not indicate the absence of cultural resources in any project area. Other sources of cultural resources should also be contacted for information regarding known and recorded sites.

Attached is a list of Native American tribes who may also have knowledge of cultural resources in the project area. This list should provide a starting place in locating areas of potential adverse impact within the proposed project area. I suggest you contact all of those indicated; if they cannot supply information, they might recommend others with specific knowledge. By contacting all those listed, your organization will be better able to respond to claims of failure to consult with the appropriate tribe. If a response has not been received within two weeks of notification, the Commission requests that you follow-up with a telephone call or email to ensure that the project information has been received.

If you receive notification of change of addresses and phone numbers from tribes, please notify me. With your assistance, we can assure that our lists contain current information.

If you have any questions or need additional information, please contact me at my email address: Andrew.Green@nahc.ca.gov.

Sincerely,

Andrew Green

Andrew Green
Cultural Resources Analyst

Attachment

Native American Heritage Commission
Native American Contact List
Los Angeles County
8/11/2023

Tribe Name	Fed (F) Non-Fed (N)	Contact Person	Contact Address	Phone #	Fax #	Email Address	Cultural Affiliation	Counties	Last Updated
Barbareño/Ventureño Band of Mission Indians	N	Cultural Resource Committee,	P.O. Box 364 Ojai, CA, 93024	(805) 746-6685		CR@bvbmi.com	Chumash	Los Angeles,San Luis Obispo,Santa Barbara,Ventura	6/19/2023
Chumash Council of Bakersfield	N	Julio Quair, Chairperson	729 Texas Street Bakersfield, CA, 93307	(661) 322-0121		chumashtribe@sbcglobal.net	Chumash	Kern,Los Angeles,San Luis Obispo,Santa Barbara,Ventura	
Coastal Band of the Chumash Nation	N	Gabe Frausto, Chairperson	P.O. Box 40653 Santa Barbara, CA, 93140	(805) 568-8063		cbcntribalchair@gmail.com	Chumash	Kern,Los Angeles,San Luis Obispo,Santa Barbara,Ventura	6/14/2022
Fernandeno Tataviam Band of Mission Indians	N	Sarah Brunzell, CRM Manager	1019 Second Street San Fernando, CA, 91340	(818) 837-0794		CRM@tataviam-nsn.us	Tataviam	Kern,Los Angeles,Ventura	5/25/2023
Gabrieleno Band of Mission Indians - Kizh Nation	N	Christina Swindall Martinez, Secretary	P.O. Box 393 Covina, CA, 91723	(626) 926-4131		admin@gabrielenoindians.org	Gabrieleno	Los Angeles,Orange,Riverside,San Bernardino,Santa Barbara,Ventura	8/2/2023
Gabrieleno Band of Mission Indians - Kizh Nation	N	Andrew Salas, Chairperson	P.O. Box 393 Covina, CA, 91723	(626) 926-4131		chairman@gabrielenoindians.org	Gabrieleno	Los Angeles,Orange,Riverside,San Bernardino,Santa Barbara,Ventura	8/2/2023
Gabrieleno/Tongva San Gabriel Band of Mission Indians	N	Anthony Morales, Chairperson	P.O. Box 693 San Gabriel, CA, 91778	(626) 483-3564	(626) 286-1262	GTTribalcouncil@aol.com	Gabrieleno	Los Angeles,Orange,Riverside,San Bernardino,Ventura	
Gabrielino /Tongva Nation	N	Sandonne Goad, Chairperson	106 1/2 Judge John Aiso St., #231 Los Angeles, CA, 90012	(951) 807-0479		sgoad@gabrielino-tongva.com	Gabrielino	Los Angeles,Orange,Riverside,San Bernardino,Ventura	3/28/2023
Gabrielino Tongva Indians of California Tribal Council	N	Robert Dorame, Chairperson	P.O. Box 490 Bellflower, CA, 90707	(562) 761-6417	(562) 761-6417	gtongva@gmail.com	Gabrielino	Los Angeles,Orange,Riverside,San Bernardino,Santa Barbara,Ventura	3/16/2023
Gabrielino Tongva Indians of California Tribal Council	N	Christina Conley, Cultural Resource Administrator	P.O. Box 941078 Simi Valley, CA, 93094	(626) 407-8761		christina.marsden@alumni.usc.edu	Gabrielino	Los Angeles,Orange,Riverside,San Bernardino,Santa Barbara,Ventura	3/16/2023
Gabrielino-Tongva Tribe	N	Sam Dunlap, Cultural Resource Director	P.O. Box 3919 Seal Beach, CA, 90740	(909) 262-9351		tongvatcr@gmail.com	Gabrielino	Los Angeles,Orange,Riverside,San Bernardino,Ventura	5/30/2023
Gabrielino-Tongva Tribe	N	Charles Alvarez, Chairperson	23454 Vanowen Street West Hills, CA, 91307	(310) 403-6048		Chavez1956metro@gmail.com	Gabrielino	Los Angeles,Orange,Riverside,San Bernardino,Ventura	5/30/2023
Northern Chumash Tribal Council	N	Violet Walker, Chairperson	P.O. Box 6533 Los Osos, CA, 93412	(760) 549-3532		violetsagewalker@gmail.com	Chumash	Los Angeles,San Luis Obispo,Santa Barbara,Ventura	6/5/2023
San Luis Obispo County Chumash Council	N	,					Chumash	Los Angeles,San Luis Obispo,Santa Barbara,Ventura	4/8/2022
Santa Rosa Band of Cahuilla Indians	F	Lovina Redner, Tribal Chair	P.O. Box 391820 Anza, CA, 92539	(951) 659-2700	(951) 659-2228	lsaul@santarosa-nsn.gov	Cahuilla	Imperial,Los Angeles,Orange,Riverside,San Bernardino,San Diego	
Santa Ynez Band of Chumash Indians	F	Sam Cohen, Government & Legal Affairs Director	100 Via Juana Road Santa Ynez, CA, 93460			scohen@chumash.gov	Chumash	Kern,Los Angeles,San Luis Obispo,Santa Barbara,Ventura	7/6/2023
Santa Ynez Band of Chumash Indians	F	Kelsie Shroll, Elders' Council Administrative Assistant	100 Via Juana Road Santa Ynez, CA, 93460	(805) 245-5403		kshroll@chumash.gov	Chumash	Kern,Los Angeles,San Luis Obispo,Santa Barbara,Ventura	7/6/2023

Native American Heritage Commission
Native American Contact List
Los Angeles County
8/11/2023

Santa Ynez Band of Chumash Indians	F	Wendy Teeter, Cultural Resources Archaeologist	100 Via Juana Road Santa Ynez, CA, 93460	(805) 325-8630		wteeter@chumash.gov	Chumash	Kern,Los Angeles,San Luis Obispo,Santa Barbara,Ventura	7/6/2023
Santa Ynez Band of Chumash Indians	F	Nakia Zavalla, Tribal Historic Preservation Officer	100 Via Juana Road Santa Ynez, CA, 93460			nzavalla@chumash.gov	Chumash	Kern,Los Angeles,San Luis Obispo,Santa Barbara,Ventura	7/6/2023
Soboba Band of Luiseno Indians	F	Joseph Ontiveros, Tribal Historic Preservation Officer	P.O. Box 487 San Jacinto, CA, 92581	(951) 663-5279	(951) 654-4198	jontiveros@soboba-nsn.gov	Cahuilla Luiseno	Imperial,Los Angeles,Orange,Riverside,San Bernardino,San Diego	7/14/2023
Soboba Band of Luiseno Indians	F	Jessica Valdez, Cultural Resource Specialist	P.O. Box 487 San Jacinto, CA, 92581	(951) 663-6261	(951) 654-4198	jvaldez@soboba-nsn.gov	Cahuilla Luiseno	Imperial,Los Angeles,Orange,Riverside,San Bernardino,San Diego	7/14/2023

This list is current only as of the date of this document. Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resource Section 5097.98 of the Public Resources Code.

This list is only applicable for contacting local Native Americans with regard to cultural resources assessment for the proposed Canoga Park High School Major Modernization Project, Los Angeles County.

Record: PROJ-2023-003992
Report Type: List of Tribes
Counties: Los Angeles
NAHC Group: All

Natural History Museum
of Los Angeles County
900 Exposition Boulevard
Los Angeles, CA 90007
tel 213.763.DINO
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NATURAL HISTORY MUSEUM
LOS ANGELES COUNTY

Research & Collections

e-mail: paleorecords@nhm.org

July 16, 2023

Envicom Corporation
Attn: Samantha Renta

re: Paleontological resources for the Canoga Park High School Major Modernization Project (Envicom Project #2023-073-01)

Dear Samantha:

I have conducted a thorough search of our paleontology collection records for the locality and specimen data for proposed development at the Canoga Park High School Major Modernization project area as outlined on the portion of the Canoga Park USGS topographic quadrangle map that you sent to me via e-mail on July 11, 2023. We do not have any fossil localities that lie directly within the proposed project area, but we do have fossil localities nearby from the same sedimentary deposits that occur in the proposed project area, either at the surface or at depth.

The following table shows the closest known localities in the collection of the Natural History Museum of Los Angeles County (NHMLA).

Locality Number	Location	Formation	Taxa	Depth
LACM VP 5878	Along Long Valley Road just north of Hidden Hills	Unknown formation (Pleistocene)	Mastodon (*Mammut*)	Unknown
LACM VP 1817	Southeast corner of Plummer & Farralone; Chatsworth	Unknown formation (Pleistocene)	Horse (*Equus*)	3 feet bgs
LACM VP 3822	Calvert St, S of Sylvan Park School, Van Nuys	Unnamed lacustrine deposit (Pleistocene)	Bison (*Bison*)	75-100 feet bgs
LACM VP 6208	Burbank Blvd. & Kester Ave. in Van Nuys	Unknown formation (Pleistocene)	Bison (*Bison*)	20 feet bgs
LACM VP 3263	5112 Kester Ave	Unknown (Pleistocene)	Horse family (Equidae)	11-20 feet bgs (sewer excavations)

VP, Vertebrate Paleontology; IP, Invertebrate Paleontology; bgs, below ground surface

This records search covers only the records of the NHMLA. It is not intended as a paleontological assessment of the project area for the purposes of CEQA or NEPA. Potentially fossil-bearing units are present in the project area, either at the surface or in the subsurface. As

such, NHMLA recommends that a full paleontological assessment of the project area be conducted by a paleontologist meeting Bureau of Land Management or Society of Vertebrate Paleontology standards.

Sincerely,



Alyssa Bell, Ph.D.
Natural History Museum of Los Angeles County

enclosure: invoice

APPENDIX C
Resume of Dr. Wayne Bischoff (Principal)

DR. WAYNE BISCHOFF
Director of Cultural Resources
wbischoff@envicomcorporation.com

Years of Experience
Over 25 years

Education
Ph.D. Anthropology, Michigan State University

B.A. Anthropology, Purdue University

Certifications
Registry of Professional Archaeologists RPA

Professional Affiliations
Society of Historical Archaeology

Society for California Archaeology

Society for American Archaeology

Specialized Training
AB 52/Tribal Consultation

Paleontological Assessments

Built Environment Assessments

Ethnographic Reports

Dr. Bischoff has over 25 years of experience in managing cultural resource projects and ensuring compliance with the California Environmental Quality Act (CEQA), Section 106 of the National Historic Preservation Act NHPA , the National Environmental Protection Act NEPA , and state, county, city, and local government cultural laws, guidelines, and procedures. He has managed cultural, paleontological, ethnographic, and built environment projects throughout Southern California, including the Counties of Ventura, Los Angeles, Kern, Imperial, San Diego, Orange, Santa Barbara, Riverside, and San Bernardino. Dr. Bischoff has been the principal or project manager for hundreds of cultural resource projects in Southern California, including record searches, surveys, evaluations, and data recoveries, built environment and historic architectural inventories, HABS projects, paleontological surveys, ethnographic reports and Native American consultation, and historic structure evaluations. Dr. Bischoff has worked with all Tribal Groups of the Greater Los Angeles area and has provided expert consultation, including Assembly Bill AB 52 consultation, writing support, and coordination. He has also written, planned, and enforced cultural resource components of many forms of CEQA and NEPA documents and been a part of Memorandum of Agreement MOA, Memorandum of Understanding MOU , and Programmatic Agreement PA development teams.

Dr. Bischoff's experience includes residential and commercial development, public works, storm and sewer projects, environmental restoration, water resources, energy and transmission line, highway and bridge, telecommunication, educational facility, and park and trail project. Dr. Bischoff has been the principal or project manager for hundreds of cultural projects in California, including Phase I literature searches and surveys, Phase I b subsurface surveys, Phase II evaluations, and Phase III data recoveries. He has also completed built environment and standing structure architectural inventories, assessments, and historic structure evaluations in select municipalities.

Dr. Bischoff also has extensive experience consulting with state and federal agencies, including the State Historic Preservation Office SHPO, California Department of Transportation Caltrans , the Department of Defense, the General Services Agency GSA , California Department of Parks and Recreation, the U.S. Department of Agriculture USDA , many U.S. Army Corps of Engineers (ACOE) districts, Fish and Wildlife, the California Public Utilities Commission CPUC , the National Park Service, the USFS, the NTIA, Federal Highway Administration, and the Port Authorities of several cities.

REPRESENTATIVE PROJECT EXPERIENCE

Data Recovering & Monitoring, Gateway at The Oaks Project, Thousand Oaks, Ventura County, California

Principal and Project Manager for the upcoming recovery and monitoring tasks for development of Gateway at The Oaks on 8.8 acres. Envicom Corporation (Envicom) is scoped to provide project compliance with Environmental Impact Report (EIR) mitigation measures addressing: retention of a qualified archaeologist, data recover excavations, cultural resources sensitivity training, development and implementation of cultural resources monitoring and treatment plan, and protocols for unanticipated discovery of archaeological resources or human remains.

Phase I Survey, Latigo Hillcrest Project (2500 W. Hillcrest Drive), Thousand Oaks, Ventura County, California

Principal and Project Manager for the Phase I Survey for Cultural Resources. Project included a site visit and SCCIC/NAHC and NHM record searches and an impact assessment report for the 8.19-acre property. Dr. Bischoff is also scoped to provide support to the City in its outreach to the local Native American Tribe(s) to offer consultation on the issue of Tribal Cultural Resources under CEQA.

Phase I Survey, T.O. Ranch (325 and 391 Hampshire Road), Thousand Oaks, Ventura County, California

Principal and Project Manager for the Phase I Survey for Cultural Resources. Project included a site visit and SCCIC/NAHC and NHM record searches and an impact assessment report for the 10.97-acre property.

Phase I Survey of the Proposed California Lutheran University, School of Management Building, Thousand Oaks, California (with Samantha Renta)

Principal and Project Manager for this university project. Project included a SCCIC/NAHC record search and a site visit.

Phase II Evaluation of CA-LAN-41 within the Boundary of the Agoura Village project, City of Agoura Hills, Los Angeles County, California

Principal and Project Manager for the completion of an Evaluation Phase II of a complex prehistoric cultural resource within the boundary of the Agoura Village project. The Phase II involved the excavation of ten test units, dozens of shovel test pits, as well as more detailed mapping of the site.

Conrad N. Hilton Foundation Phase Ib of Proposed Phase II Building Locations, Agoura Hills, California

This project involved the excavation of 48 shovel test pits within the western periphery of cultural resource CA-LAN-320 on Foundation property. (Current)

Oakmont Senior Housing Archaeological, Paleontological, and Native American Monitoring Project, Agoura Hills, California

Principal and Project Manager for this archaeological, paleontological, and Native American monitoring project. (Current).

CA-LAN-320 Phased Evaluation Project, Agoura Hills, Los Angeles County, California

Principal and Project Manager for the phased evaluation Phase II of CA-LAN-320 in response to potential impacts from the construction of the Conrad N. Hilton Foundation Phase 2 Campus Building. The site is a prehistoric Chumash residential and ceremonial center of over 80 acres in size and that was used by prehistoric Native Americans from 300 B.C. to the late 1700s. Dozens of test units, hundreds of shovel test pits, surface collection, and surface feature mapping have been completed to date planned. (Current).

Conrad N. Hilton Foundation Geotech Boring Archaeological and Paleontological Monitoring, Agoura Hills, California

This project involved the monitoring of geotech trench and drilling sites within Foundation and Las Virgenes Water District properties within the City of Agoura Hills.

Hilton Property Phase 3 Construction Site Phase Ib Cultural Resources Survey, Agoura Hills, Los Angeles County, California

Principal and Project manager for this extensive preliminary survey project, including excavation of over 200 shovel test pits and 4 test units to define the boundaries of a prehistoric ceremonial site of over 80 acres in size, used by Chumash Native Americans from 400 A.D. to the late 1700s. Recordation of over 190 features and 11,500 artifacts.

Archaeological, Paleontological, and Native American Monitoring for the JPA/Las Virgenes Water District Solar Farm Expansion, Calabasas, California

Principal and Project Manager for this monitoring project. This project encountered elements of a very old prehistoric site at depth, which included lithic material, groundstone artifacts, and an intact multi episodic hearth feature. (Current).

Archaeological and Paleontological Monitoring for the Agoura Landmark Development Project, Agoura Hills, California

Principal and Project Manager for this monitoring project. A negative findings report was also completed and submitted to the City.

Cultural, Paleo, and Native American Monitoring for the Agoura Hills Marriott Development Project, Agoura Hills, California

Principal and Project Manager for this monitoring project. During monitoring, a prehistoric Chumash cultural resource was discovered (number not yet assigned), which led to artifact collection, analysis, and a final report of findings that was submitted to the City

Phase I Survey for the Agoura Kanan Village project, a 7.37 acre Commercial Subdivision in the City of Agoura Hills, Los Angeles County, California

Principal and Project Manager for the completion of a SCCIC/NAHC record search, NAHC scoping, and a Phase Ia site survey. The Phase Ia survey was followed by a Phase Ib subsurface survey and an updated site form for a previously known prehistoric cultural resource that includes the entire project area.

Phase II Evaluation of two cultural resources located on the Oakmont project property, City of Agoura Hills, Los Angeles County, California

Principal and Project Manager for the evaluation of a prehistoric cultural resource and a 1920s 1980s historic homestead cultural resource. Evaluation tasks included shovel test pits, and a test unit for the prehistoric cultural resource, and detailed mapping and documents research for the historic cultural resource. A combined report for both Oakmont projects was produced for the City.

Phase I Survey for the Oakmont commercial project, a 5.75 acre development in the City of Agoura Hills, Los Angeles County, California

Principal and Project Manager for the completion of NAHC record search, and a Phase Ia site survey. The Phase Ia survey identified two cultural resources; a 1920s historic homestead foundation, and a large prehistoric archaeological site.

CA-LAN-320 Project Compliance Plans, and Native American and Lead Agency Consultation, Agoura Hills, Los Angeles County, California

Tasks included the authoring of a cultural resource Treatment and Data Recovery Plan, a cultural resource Management Plan, and a Curation Plan for all artifacts, as well as the organization of meetings with the Chumash Tribal Groups and the Lead Agency.

Phase I Survey for the Massilia Spa Project, Triunfo Canyon, Los Angeles County, California

Principal and Project Manager for the completion of a SCCIC/NAHC record search, NAHC record search request, and a site survey. Project also includes an inventory and initial assessment of over a dozen 1930 through 1990 structures on the property.

Phase I Survey of the Butler Ranch, in Ventura County near west Simi Valley, California

Principal and Project Manager for the completion of a Phase I record search, NAHC record search request, and a site survey of this 332 acre low density residential development project.

North Canyon Ranch 170 acre Residential Subdivision in Simi Valley, Ventura County, California

Principal and Project Manager for the completion of a SCCIC/NAHC record search and project area site survey. A key issue for this project was a previously disturbed cultural resource within the project area, the destruction of which needed to be addressed in the final report.

Pepperdine University Campus Life Project: Phase I survey of new Baseball Field development, Los Angeles County, California.

Principal and Project Manager for the addition of the campus baseball field as part of the larger Pepperdine Campus Life housing, facilities, and trail development project.

Pepperdine University Campus Life Project: Debris Basin Excavation Cultural and Paleontological Resource Monitoring, Los Angeles County, California

Principal and Project Manager for cultural resource monitoring of Phase I of the Pepperdine Campus Life housing, facilities, and trail development project.

Phase I Survey of a property on Giles Road, Lake Sherwood, Ventura County, California (with Samantha Renta)

Principal and Project Manager for this project, which included an SCCIC record search and a site visit. Exploration of all rock shelters and cache openings on the property for historic artifacts was part of this project.

Phase I Survey of 6544 Wandermere Road, Malibu, Los Angeles County, California (with Samantha Renta)

Principal and Project Manager for this project, which included an SCCIC record search and a site visit.

Phase I Survey of 5841 Busch Drive, Malibu, Los Angeles County, California (with Samantha Renta)

Principal and Project Manager for this project, which included an SCCIC record search and a site visit.

Phase II Evaluation of CA-LAN 129 and CA-LAN 129a, two prehistoric sites, and CA-LAN 4363H, an early historic site located in Calabasas, California

Principal and Project Manager for the evaluation of these three sites as part of permitting with the Corps of Engineers. The evaluation was written to NRHP/SHPO standards.

Phase I Survey of the West Village Project, Calabasas, California

Principal and Project Manager for this Army Corps of Engineers (ACOE) permitting project. Project included a SCCIC/NAHC/NHM record search and a site visit, as well as SHPO review of the final report.

Phase I Survey of the JPA Solar Farm, Calabasas, Los Angeles County, California

Principal and Project Manager for the completion of a SCCIC/NAHC record search, NAHC record search request, and a site survey for the Los Virgenes Municipal Water District. This 20 acre solar project also addressed a large prehistoric Native American site located next to and partially on the property. Project included Native American consultation with the Lead Agency and the Tatatviam and the recordation of two prehistoric petroglyphs

Phase I Survey for the 17 acre Olivas Park Extension commercial development project in Ventura, Ventura County, California

Principal and Project Manager for the completion of a SCCIC/NAHC record search, NAHC record search request, and a site survey, followed by limited monitoring.

Phase I Survey for the Mulholland Senior Living Project, Los Angeles County, California

Principal and Project Manager for the completion of a SCCIC/NAHC record search, NAHC record search request, and a site survey.

Phase I Survey of the proposed Tapo at Alamo EIR for a mixed use development project, Simi Valley, Ventura County, California (with Samantha Whittington) and Debbie Balam

Principal and Project Manager for the completion of a SCCIC/NAHC record search, NAHC record search request, and a site survey.

Phase I Survey of roughly 50 acres for Improvements on the Saddlerock Ranch/Malibu Wines Property in the Santa Monica Mountains, Los Angeles County, California

Principal and Project Manager for the completion of a SCCIC/NAHC record search, NAHC scoping, and a site survey. This project involves upgrades to the winery existing structures and public buildings, as well as road and parking improvements. Part of this project is located near a National Register Chumash rock art site as well as other prehistoric resources

Phase I Survey for 34134 Mulholland Highway, Los Angeles County, California

Principal and Project Manager for the completion of a SCCIC/NAHC record search, NAHC record search request, and a site survey.

Manzanita School Phase Ia Survey for a 20.27 acre private school development in Topanga Canyon, California, Los Angeles County, California

Principal and Project Manager for the completion of an SCCIC and NAHC record search, and a site survey. This project also assessed built environment resources, which included early 1900s buildings, early 1900s water control features, culverts, and bridges, and 1950s landscaping elements.

Phase I Survey of the Proposed California Lutheran University, School of Management Building, Thousand Oaks, California (with Samantha Renta)

Principal and Project Manager for this university project. Project included a SCCIC/NAHC record search and a site visit.

APPENDIX D

Construction Energy Worksheets

Construction Electricity Use Worksheet
LAUSD Canoga Park High School Project

Total MT CO2 Emissions by Construction Phase

Phase 1		Construction Equipment	Mobile Worker	Mobile Hauling/Vendor
2025	Demolition	33.40	1.97	24.17
2026	Demolition	35.65	2.05	25.33
2026	Grading	12.12	0.81	3.24
2026	Construction	247.80	28.58	27.50
2026	Paving	93.54	14.7	0.00
2027	Construction	38.19	4.32	4.15
2027	Painting	2.67	1.09	0.00
Subtotals in Metric Tons:		**463.37**	**53.52**	**84.39**
Approximate Gallons of Fuel:		**45,605**	**6,020**	**8,306**

Phase 2		Construction Equipment	Mobile Worker	Mobile Hauling/Vendor
2027	Demolition	35.87	2.03	9.88
2027	Grading	20.21	1.32	3.18
2027	Construction	166.77	2.74	0.00
2028	Construction	84.18	1.36	1.30
2028	Paving	20.63	2.60	0.00
2028	Painting	1.22	0.07	0.00
Subtotals in Metric Tons:		**328.88**	**10.12**	**14.36**
Approximate Gallons of Fuel:		**32,369**	**1,138**	**1,413**

Grand Total Diesel	**87,693**
Grand Total Gasoline	**7,158**

Construction Equipment fuel is diesel fuel.
Mobile Worker fuel (worker trips) is calculated as 100% gasoline fuel.
Mobile Hauling/Vendor fuel is calculated as 100% diesel fuel, although medium-duty trucks comprise 50% of the trips assumed by CalEEMod, which may use gasoline fuel. Assuming 100% diesel use for fuel consumption purposes does not have any effect on analysis.

Conversion of metric tons of CO2 to gallons of diesel: MTCO2/0.01016047
Gallons of gasoline: MTCO2/0.00889041

Derived from 2016 USEIA figures: 1 gallon of diesel produces 22.4 lbs of CO2.

MTCO2 emissions for each phase as reported in CalEEMod "Annual" calculations.

Total MT CO2 Phase 1:	601.28
Total MT CO2 Phase 2:	353.36
Total:	954.64

Construction Fuel Consumption Worksheet
LAUSD Canoga Park High School Project

Water use during construction

Phase 1

	Acres (1)	Gallons Water (2)	Electricity kWh (3)
Total acres graded	9	27,180	144.22
Demolished Structures	1	3,020	16.02
		Subtotal	160.24

Phase 2

	Acres (1)	Water Used (2)	Electricity (3)
Total acres graded	15	45,300	240.36
Demolished Structures	1	3,020	16.02
		Subtotal	256.39
		Total water kWh	**416.63**

Mobile Office Energy Use (4)

	kWh/yr	Years in Use	Total kWh
Mobile Office yearly	3,590.00	4.00	**14,360.00**

Grand Total: **14,776.63** **Kwh**

1) Based on total acres of grading as calculated by CalEEMod. 1 acre is added to represent water used to suppress dust during demolition activities.
2) Water associated with dust control is based on a 3x daily application rate that amounts to 3,020 gal/acre. This rate is not the amount of water used per day while grading but the total cumulative amount of water used per acre graded. Source: Air & Waste Management Association, Air Pollution Engineering Manual (1992 Edition).
3) Each gallon of delivered water for outdoor use in Southern California is associated with 0.005306 kWh of electricity. Source: CalEEMod 2020 Appendix G Table G-32.
4) Assuming the project will employ a mobile office during the entire 4 year construction process. Usage is based upon a 2022 CalEEMod estimate of electricity use for one 1,300 sf "mobile home park" housing unit, calculated to use 3,590 kWh/yr. Actual mobile construction office electricity use would likely be lower

APPENDIX E

Preliminary Geotechnical Evaluations

PRELIMINARY GEOTECHNICAL EVALUATION
CANOGA PARK HIGH SCHOOL
MAJOR MODERNIZATION
6850 TOPANGA CANYON BOULEVARD
CANOGA PARK, CALIFORNIA

Prepared for:

Los Angeles Unified School District
333 S. Beaudry Avenue, 22nd Floor
Los Angeles, California 90017

Work Order: 2880-83-3-101
May 16, 2022

GORIAN & ASSOCIATES, INC.

TABLE OF CONTENTS

1.0 INTRODUCTION 1
Figure 1 - Vicinity Map 2
2.0 PROPOSED CONSTRUCTION 3
3.0 SCOPE OF SERVICES 3
3.1 ARCHIVAL REVIEW 3
3.2 SUBSURFACE EXPLORATION 3
3.3 LABORATORY TESTING 4
3.4 GEOTECHNICAL ENGINEERING ANALYSIS AND REPORT PREPARATION 4
4.0 SITE DESCRIPTION 5
4.1 REGIONAL GEOLOGIC SETTING 5
4.2 SITE GEOLOGIC UNITS 5
4.2.1 Pavements 5
4.2.2 Artificial Fill 5
Figure 2 – Regional Geologic Map 6
4.2.3 Alluvial / Alluvial Fan Deposits 7
4.3 GROUNDWATER 7
4.4 LANDSLIDES 7
4.5 FLOOD HAZARD ZONE 7
4.6 FAULTING AND SEISMICITY 7
Figure 3 - Regional Fault Map 8
4.7 LIQUEFACTION/DRY SAND SETTLEMENT POTENTIAL 9
Figure 4 - Seismic Hazards Map 10
4.8 CORRELATION CPT AND BORING 11
4.9 HYDRO-COLLAPSE 11
5.0 GEOTECHNICAL CONCLUSIONS AND RECOMMENDATIONS 11
5.1 SOIL EXPANSIVENESS 11
5.2 SOIL CORROSIVITY 12
5.3 GEOTECHNICAL SEISMIC DESIGN 12
5.4 SITE-SPECIFIC MCE_R RESPONSE SPECTRA 13
5.5 INFILTRATION FEASIBILITY 14
5.6 SITE PREPARATION 14
5.6.1 Site Cleanup 14
5.6.2 Soil Removals 14
5.6.3 In-Place Soil Processing 15
5.6.4 Fill Placement 15
5.6.5 Relative Compaction 15
5.6.6 Temporary Excavations 15
5.7 SHORING RECOMMENDATIONS 15
5.7.1 Shored Depth 16
5.7.2 Shoring Soil Pressure 16
5.7.3 Surcharge Loading 16
5.7.4 Soldier Beam Passive Pressure 16
5.7.5 Lagging 16
5.7.6 Pile Construction 16
5.7.7 Shoring Plan Review and Construction Inspection 17
5.8 SHALLOW FOUNDATION DESIGN 17
5.8.1 Conventional Footings 17
5.8.2 Conventional Footings - Retrofit 17
5.8.3 Mat Foundation 18

5.8.4 Resistance to Lateral Loads 18
5.8.5 Foundation Settlement 18
5.8.6 Footing Excavations 18
5.8.7 Moisture Penetration 18
5.9 FLAGPOLE FOOTINGS 18
5.9.1 Micropiles 19
5.9.2 Pile Construction 19
5.10 SLAB DESIGN 19
5.10.1 Slabs-On-Grade 19
5.10.2 Concrete Placement and Cracking 20
5.10.3 Under-Slab Treatment 20
5.10.4 Moisture Penetration 21
5.11 LANDSCAPING ADJACENT TO BUILDINGS 21
5.12 RETAINING WALLS 21
5.12.1 General 21
5.12.2 Retaining Wall Foundations 21
5.12.3 Lateral Earth Pressures 22
5.12.4 Lateral Seismic Pressure 22
5.12.5 Waterproofing 22
5.12.6 Drainage 22
5.12.7 Backfilling 22
5.13 EXTERIOR SLABS AND WALKWAYS 23
5.14 PRELIMINARY PAVING SECTION 23
5.14.1 Structural Section 23
5.14.2 Subgrade Preparation 23
5.14.3 Aggregate Base Preparation 23
5.15 SITE DRAINAGE 23
6.0 PLAN REVIEW 24
7.0 CLOSURE 24
8.0 REFERENCES 26

Attachments:

Appendix A:	Logs of Subsurface Data
Appendix B:	Laboratory Test Results
Appendix B-1:	Corrosion Report
Appendix C:	Seismically Induced Settlement Analyses
Appendix D:	Micropile Capacity
Plate 1:	Geotechnical Exploration Map
Plate 2:	Geotechnical Cross Sections

GORIAN & ASSOCIATES, INC.

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May 16, 2022

Los Angeles Unified School District
333 S. Beaudry Avenue, 22nd Floor
Los Angeles, California 90017

Work Order: 2880-83-3-101

Attention: Cristina Cho

Subject: **Preliminary Geotechnical Evaluation, Canoga Park High School Major Modernization, 6850 Topanga Canyon Boulevard, Canoga Park, California**

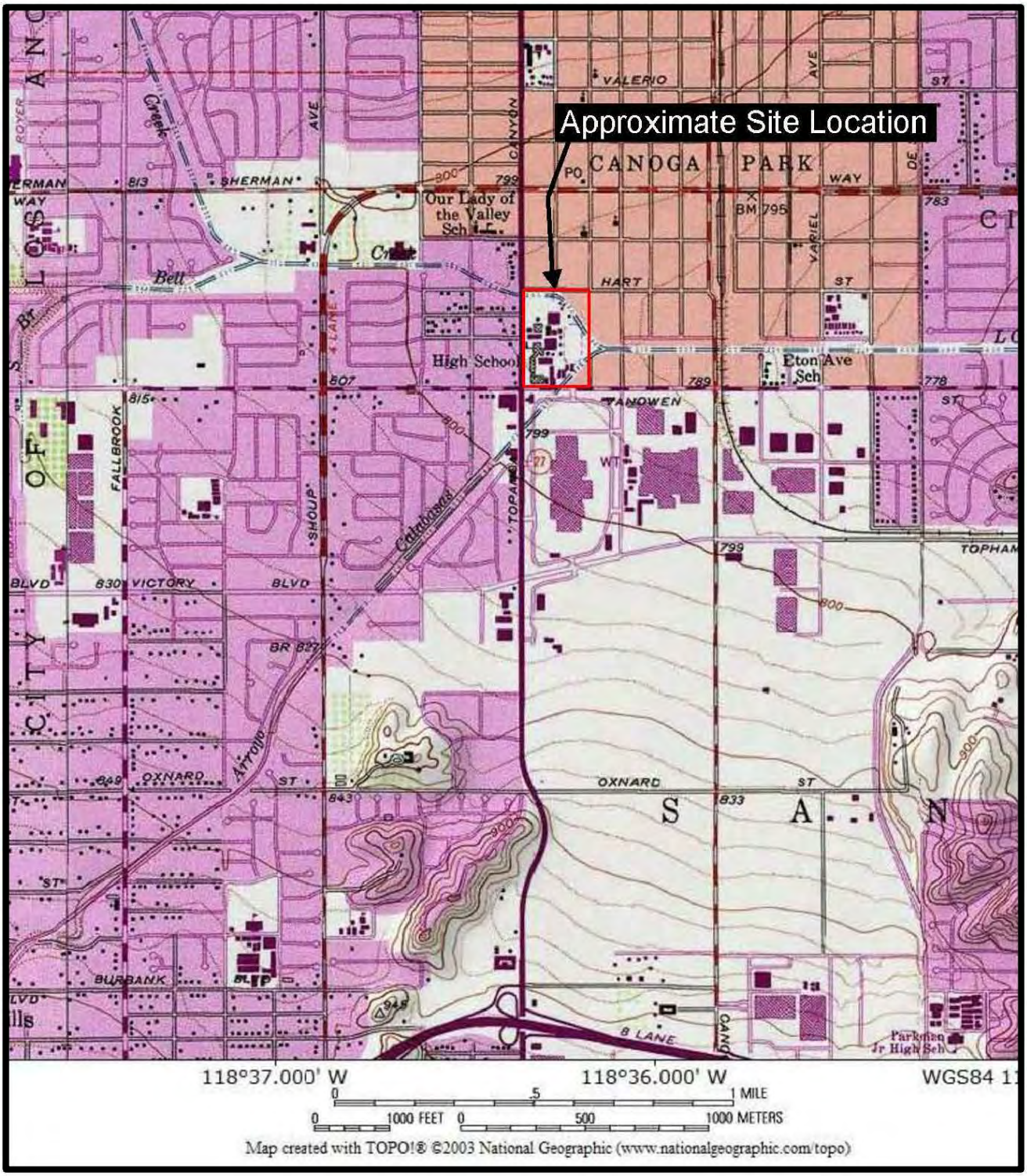
1.0 INTRODUCTION

Presented herein are the results of our preliminary geotechnical site evaluation for major modernization at Canoga Park High School at 6850 Topanga Canyon Boulevard, in the Canoga Park area as shown on Figure 1. Modernization may include demolition and construction of new buildings as well as seismic retrofit of some existing buildings.

For the current evaluation six exploratory borings were drilled and six Cone Penetrometer Test (CPT) Soundings were advanced near the locations proposed by Los Angeles Unified School District (LAUSD) personnel and/or their consultants. The approximate locations of our exploratory points are shown on the attached Geotechnical Exploration Map, Plate 1. Also shown are the locations of four prior explorations (Gorian and Associates, Inc. 2019).

The existing school (hereafter, Site) falls within a State of California designated Liquefaction Seismic Hazard Zone (CGS, 1998). To evaluate the potential for seismic settlement, select borings and CPT soundings were extended to a depth of 50 feet as required in California Geological Survey (CGS) Special Publication 117A for the evaluation of seismically induced ground settlement. During our subsurface exploration, groundwater was encountered at depths varying from approximately 17 to 20½ feet below the existing ground surface (bgs). In addition, the historical high groundwater level is shown at roughly 10 feet below the Site (CGS, 1997-rev. 2005).

The subsurface exploration found the area of the school evaluated for this report to be underlay by native soils referred to as alluvial basin or fan deposits (Holocene) locally mantled with artificial fill, grass, and pavement. General descriptions of the materials encountered in the subsurface exploration are presented in the text of this report with boring specific detail presented on the attached Logs of Subsurface Data (Appendix A).



Source
United States Geological Survey, *Canoga Park Quadrangle, California-Los Angeles County*. 7.5 Minute Series (Topographic)

SITE VICINITY MAP

Canoga Park High School
6850 Topanga Canyon Blvd.
Canoga Park, California

Gorian & Associates, Inc. *Applied Earth Sciences*		
Job No: 2880-83-3-101		Date: May 2022
Scale: 1" = 2000'	Drawn by:	Figure 1
	Approved by:	

The Site was found to have a potential for seismic settlement of 0 to 1-2/3 inch during a design level (2,475-year return period) earthquake as addressed later herein with a potential for differential settlement of ¾ inches. Calculated lateral spread was less than ½ inch. Based on the CGS Special Publication 117A, structural mitigation may be used within this range of seismic induced settlement. Our geotechnical evaluation for the comprehensive modernization project has found that with proper design and construction practices, the Site is suitable for future development/modernization.

2.0 PROPOSED CONSTRUCTION

The proposed major modernization project at Canoga Park High School may include new buildings, retrofit buildings, portable buildings, and modernization of buildings. It is anticipated that buildings will not be more than three stories and will be similar to the existing buildings onsite. Evaluation of existing soil conditions was performed on the main campus and on the other side of both flood control channels (Bell Creek and Calabasas Creek).

3.0 SCOPE OF SERVICES

Our geotechnical evaluation was performed in accordance with generally accepted geotechnical engineering practices under the direction of a state Registered Geotechnical Engineer and Certified Engineering Geologist and included the following:

3.1 ARCHIVAL REVIEW

Pertinent geotechnical data available in our office was reviewed for this report.

3.2 SUBSURFACE EXPLORATION

Recently, six geotechnical borings (B-11 through B-16) were drilled to depths of 31 to 51½ feet below the existing ground surface (bgs) to evaluate the underlying soil conditions. [note: Location 15 has both a CPT sounding and a hollow-stem auger boring]. A subcontractor supplied and operated truck-mounted hollow-stem auger drill rig was used to advance the borings to the indicated depths. Standard Penetration Testing (SPT) of the encountered in-situ earth materials was performed at various depths within the exploratory borings. Additionally, six Cone Penetrometer Test (CPT) Soundings (CPT-15 and CPT-17 through CPT-21) were advanced to depths of approximately 50 feet bgs utilizing a subcontractor supplied and operated cone penetrometer test rig. Shear wave measurements were measured at the bottom of each CPT. Field exploration activities described above were observed by an engineer or geologist from this office, who logged the underlying materials and obtained bulk and relatively undisturbed drive soil samples for laboratory analyses.

Previously, in 2019 four geotechnical borings (B-1 through B-4) were drilled to depths of approximately 16 to 51½ feet bgs utilizing a subcontractor supplied and operated truck-mounted hollow-stem auger drill rig. Field exploration activities described above were observed by a geologist from this office, who logged the underlying materials and obtained bulk and relatively undisturbed drive soil samples for laboratory analyses. In addition, Standard Penetration Testing (SPT) was performed at various depths within the deeper (51± feet bgs) exploratory boring.

Prior to site exploration, the points of exploration were marked in the field and a utility locator subcontractor was contacted to identify the surface trace of detectable underground utilities and abandoned piping in an effort to explore away from subsurface utilities. Additionally, Underground Service Alert (USA) was contacted per State mandated protocol.

At the end of exploration, the borings and CPTs were backfilled with Portland Cement and water and patched with asphalt cold patch in drive areas within existing asphalt, and a grass patch in the

landscaped area. Boring backfills may settle with time and a LAUSD representative should fill any depression that may occur, as necessary.

3.3 LABORATORY TESTING

A program of geotechnical laboratory testing was performed to evaluate properties of selected soil samples obtained during the subsurface exploration. The following tests were conducted for this preliminary site evaluation:

- Moisture and Density Testing of Undisturbed Soil Samples
- Maximum Density and Optimum Moisture Content Relationships
- Direct Shear Testing
- Consolidation Testing
- Atterberg Limits
- Expansion Index Testing
- Hydrometer Analyses
- Corrosivity Analyses
- R-Value Testing

3.4 GEOTECHNICAL ENGINEERING ANALYSIS AND REPORT PREPARATION

This report was prepared to present the results of our archival research, field subsurface exploration and laboratory testing programs, and engineering analyses including the findings, conclusions, and recommendations of our geotechnical site evaluation. The report includes:

a) A description of subsurface conditions as encountered in the exploratory excavations, including Logs of Subsurface Data and Cone Penetration Test Data (Appendix A), Geotechnical Exploration Map (Plate 1), and Geotechnical Cross Section (Plate 2).

b) A description of the laboratory testing program, including test results (Appendix B).

c) Discussion and recommendations regarding:

- Geologic hazards including seismic setting of the site and faulting;
- Seismic design criteria for new and retrofit/modernization buildings;
- Seismic Design Parameters from ASCE 41-17 and ASCE 7-16;
- Site Specific MCE_R Response Spectra;
- Liquefaction and Seismically Induced Settlement and Lateral Spread (Appendix C);
- Soil collapse and expansion potential;
- Site preparation and remedial grading;
- Foundation design recommendations including shallow, mat, and flagpole foundations;
- Shoring recommendations;
- Estimated settlements;
- Percolation feasibility, based on soil characteristics;
- Retaining wall design parameters (restrained and cantilever walls) and earthquake loading;
- Preliminary pavement and hardscape design; and
- Soil chemistry analysis, by subcontract.

4.0 SITE DESCRIPTION

Canoga Park High School is on a relatively flat, roughly rectangular parcel bounded on the north by Hart Street, on the west by Topanga Canyon Boulevard, on the south by Vanowen Street, and on the east by Jordan Street. The Bell Creek Flood Control Channel and the Arroyo Calabasas (Calabasas Flood Control Channel) bisect the northeast and southeast portions of the site, respectively. Portable Classroom buildings are located across Bell Creek and agricultural greenhouses are located across Arroyo Calabasas. Both channels have footbridges for crossing within the school property. The main parking lot is in the southwest portion of the site, with faculty parking east of that. The stadium is in the eastern portion of the site between the two flood control channels with the gymnasium, basketball courts and grass baseball field in the northwest portion of the site. Grass and landscaping are present in the front of the school along Topanga Canyon and scattered between the buildings both directly adjacent to some buildings as well as in separated planters. The topography slopes gently to the south. The site is surrounded by existing residential and commercial development.

Construction began at Canoga Park High School (formerly Owensmouth High School) circa 1924. Since that time, construction has continued with buildings being added, removed and/or repurposed. In general, it appears the foundations are on the order of 3 to 4 feet below adjacent grade and some fill was placed below the slabs.

4.1 REGIONAL GEOLOGIC SETTING

The Site is in the southwestern portion of the San Fernando Valley, an east trending structural trough within the Transverse Ranges geomorphic province of Southern California. This geomorphic province is dominated by active compressional tectonics (crustal shortening) and is characterized by east west trending ranges and ridges with intervening canyons and valleys. The San Fernando Valley has been filled from the sides with sediments from drainages of the San Gabriel Mountains (mainly) and Santa Susana Mountains to the north, the Santa Monica Mountains to the south, and the Simi Hills and Verdugo Mountains to the west and east, respectively. Being on the southwestern portion of the Valley, the Site is on a broad apron of alluvial fans deposited at the mouths of drainages of the Santa Monica Mountains south of the site as well as basin alluvium (see Figure 2).

4.2 SITE GEOLOGIC UNITS

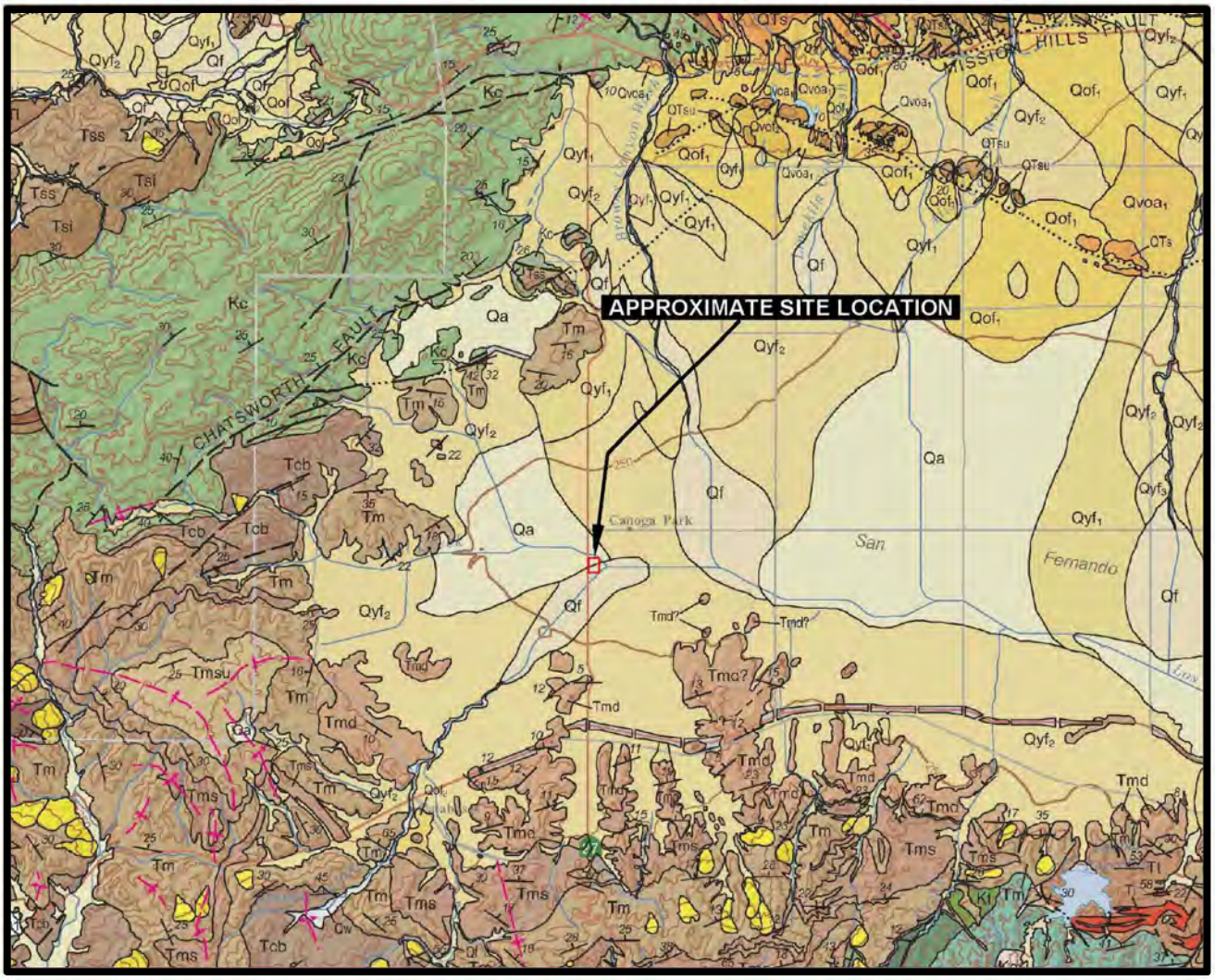
The Site is underlain by native soils referred to as alluvial / alluvial fan deposits (Holocene) locally mantled with artificial fill, grass, and pavement. General descriptions of the pavement, artificial fill, and alluvial fan (alluvium on boring logs) as encountered in our exploratory borings are presented below with boring specific detail presented on the attached Logs of Subsurface Data (Appendix A).

4.2.1 Pavements

Asphaltic concrete pavement was encountered in borings B-1, B-3, B-4, B-12, and B-15 and is underlain by fill or native soils. The encountered asphaltic concrete varied in thickness from 2½ to 3½ inches in pedestrian traffic areas and 5 to 8½ inches in vehicle traffic areas.

4.2.2 Artificial Fill

Artificial fill was not identified in the current borings, although thin, shallow fill deposits may have been present in a few of the CPTs. During the previous evaluation, fill soils were encountered in borings B-1 through B-4 to depths of 1½ feet near the Dance Studio and 2½ feet around the Assembly Building. The fill generally consists of clayey sand or silty clay in a damp to very moist and loose to very stiff condition. Given the developed nature of the Site other areas of fill are likely to exist.



Geologic Explanation

Qa = Alluvium (late Holocene) - Unconsolidated gravel, sand, and silt in active or recently active floodplains, locally including related alluvial fans and streambeds where those are not mapped separately; chiefly stream deposited, but includes some debris-flow deposits. Locally corresponds with or encompasses areas of historic flooding, including deposits behind flood-control structures.

Qf = Alluvial fan (Holocene) - Unconsolidated bouldery, cobbly, gravelly, sandy, or silty alluvial deposits on active or recently active alluvial fans and in some connected headward channel segments.

Qyf_2 = Young alluvial-fan deposits, Unit 2 (Holocene to late Pleistocene) - Older young fan deposits, older than Unit 3, younger than Unit 1.

Source

Campbell, Russell H.,Wills, Chris J., Irvine, Pamela J., and Swanson, Brian J., Compilers, 2014, *Geologic Map Of The Los Angeles 30' x 60' Quadrangle, California - Version 2.1*. California Geological Survey, Regional Geologic Map Series 1:100,000 Scale

REGIONAL GEOLOGIC MAP

Canoga Park High School
6850 Topanga Canyon Blvd.
Canoga Park, California

Gorian & Associates, Inc. *Applied Earth Sciences*		
Job No: 2880-83-3-101		Date: May 2022
Scale:1" = 2 mi	Drawn by:	Figure 2
	Approved by:	

4.2.3 Alluvial / Alluvial Fan Deposits

Beneath the pavement, grass, or artificial fill, alluvial / alluvial fan deposits were encountered to the maximum depth explored of 51½ feet bgs. In general, the site soils consist of silty and sandy clays with isolated layers of silty sands and clayey sands. The upper approximately 15 to 42 feet consist of clay soils, with borings B-11 and B-14 only extending to 31 feet and encountering only clay soils. The clay soils are stiff to hard and damp to very moist above groundwater and very moist to saturated below the encountered groundwater. Below the silty and sandy clay are thin, approximately 1 to 3½ feet of silty or clayey sands interlayered with clay soils. The sands are generally very moist to saturated and medium dense.

4.3 GROUNDWATER

Groundwater was encountered at 17 to 20½ feet bgs in the geotechnical borings and CPTs; during the previous investigation groundwater was encountered at 19 feet. Historic high groundwater for the school site is approximately 10 feet bgs (CGS, 2000 rev. 2012).

4.4 LANDSLIDES

No landslides are present within or near the site nor are any shown on regional geologic maps.

4.5 FLOOD HAZARD ZONE

The Site is not in a Federal Emergency Management Agency (FEMA) mapped flood hazard zone (FEMA FIRM Map, 2008). In addition, it is not in a dam or tsunami inundation zone (City of Los Angeles Department of City Planning, 1996).

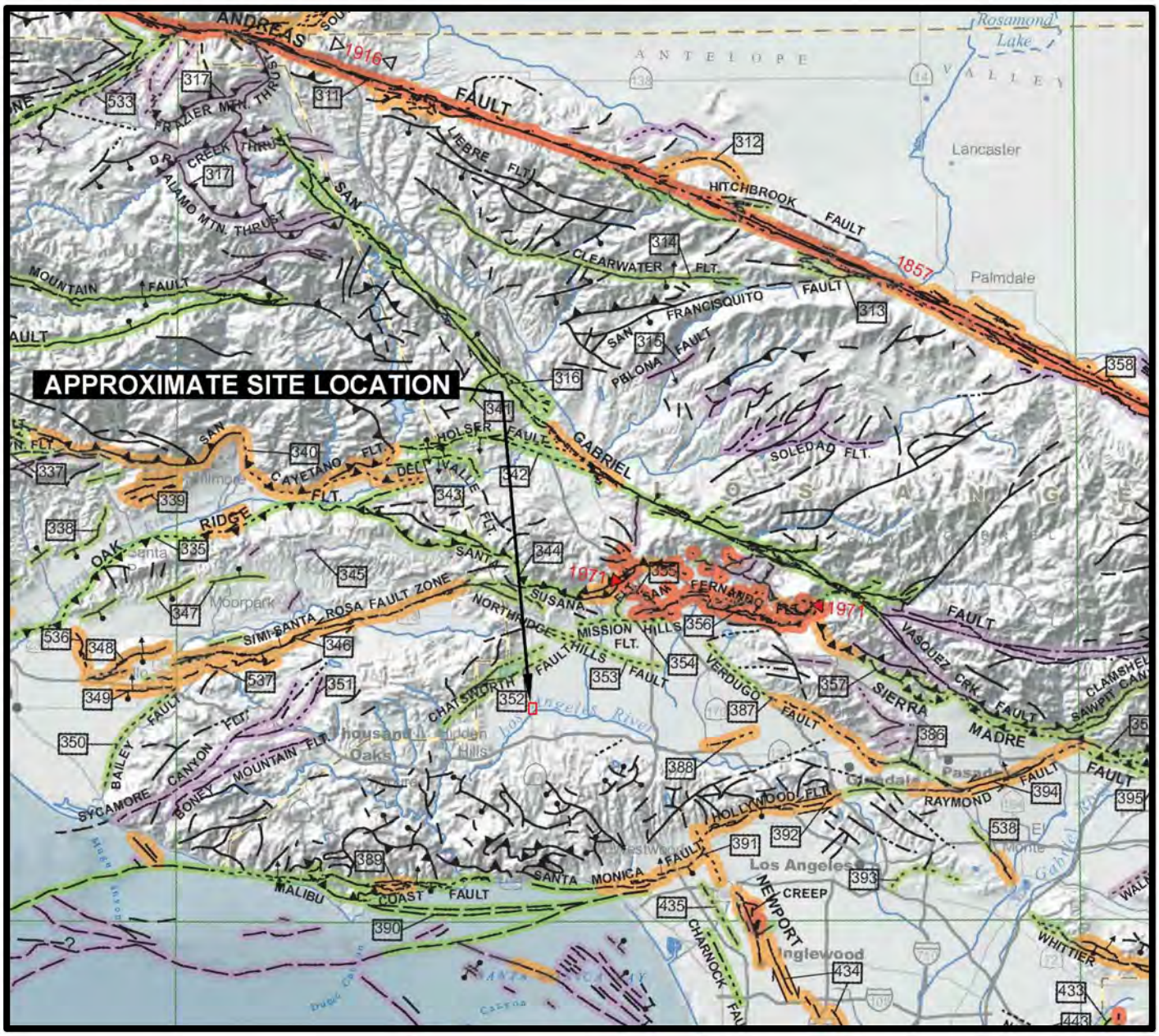
4.6 FAULTING AND SEISMICITY

Canoga Park High School, like other sites in the San Fernando Valley, is in a seismically active region prone to occasional damaging earthquakes. The destructive power of earthquakes can be grouped into fault-rupture, ground shaking (strong motion), and secondary effects of ground shaking (such as tsunami, liquefaction, settlement, landslides). The hazard of fault-rupture is generally thought to be associated with a relatively narrow zone along well-defined pre-existing active or potentially active faults. No doubt there are and will be exceptions to this, because it is not possible to predict the precise location of a new fault where none existed before (CDMG, 1975).

Holocene-active faults are not known to cross the Site and the Site is not currently within an Alquist-Priolo (A-P) Earthquake Fault Zone as defined by the State Geologist (CGS 2018).

The closest Historically-active surface fault is the San Fernando fault which ruptured February 9, 1971 and is approximately 9 miles northeast of the Site. The Holocene-active Simi-Santa Rosa Fault zone is approximately 9 miles northwest of the Site. The active Hollywood fault, part of the Santa Monica-Hollywood-Raymond fault system lies approximately 13½ miles southeast of the Site and the active Verdugo fault is approximately 15 miles east of the Site (see Figure 3). The potential for ground rupture on site due to faulting during the life expectancy of the project is considered remote.

Although no Holocene-active faults are known to exist on or in close proximity to the Site, the area will be subject to strong ground motion from occasional earthquakes in the region. Four significant earthquakes have occurred centered within 40 miles of the Site within the last eight decades; the March 11, 1933 Long Beach earthquake (6.4 magnitude), the February 9, 1971 San Fernando earthquake (6.6 magnitude) with its epicenter about 18½ miles northeast of the Site, the October 1, 1987 Whittier Narrows earthquake (6.0 magnitude), and the January 17, 1994 Northridge earthquake (6.7 magnitude) with its epicenter located approximately 4 miles northeast of the Site.



Geologic Time Scale			Years Before Present (Approx.)	Fault Symbol	Recency of Movement	DESCRIPTION	
						ON LAND	OFFSHORE
Quaternary	Late Quaternary	Historic				Displacement during historic time (e.g. San Andreas fault 1906). Includes areas of known fault creep.	
		Holocene	200			Displacement during Holocene time.	Fault offsets seafloor sediments or strata of Holocene age.
		Pleistocene	11,700			Faults showing evidence of displacement during late Quaternary time.	Fault cuts strata of Late Pleistocene age.
	Early Quaternary		700,000			Undivided Quaternary faults - most faults in this category show evidence of displacement during the last 1,600,000 years; possible exceptions are faults which displace rocks of undifferentiated Plio-Pleistocene age.	Fault cuts strata of Quaternary age.
Pre-Quaternary			1,600,000*			Faults without recognized Quaternary displacement or showing evidence of no displacement during Quaternary time. Not necessarily inactive.	Fault cuts strata of Pliocene or older age.
			4.5 billion				

Source

Jennings, Charles W. and Bryant, William A., Compilers, with Assistance from Saucedo, George J., 2010, *FAULT ACTIVITY MAP OF CALIFORNIA*. California Geological Survey Geologic Data Map Series - Map No. 6.

REGIONAL FAULT MAP

Canoga Park High School
6850 Topanga Canyon Blvd.
Canoga Park, California

Gorian & Associates, Inc. *Applied Earth Sciences*		
Job No: 2880-83-3-101		Date: May 2022
Scale: 1" = 10 mi	Drawn by:	Figure 3
	Approved by:	

It is estimated during the Northridge event, the general area of the school experienced maximum horizontal accelerations on the order of 0.45g on the alluvial soil site condition. This is based upon ground motion data obtained from ground motion contours presented in Chapter 3 of the *Preliminary Report on the Principal Geotechnical Aspects of the January 17, 1994 Northridge Earthquake* (Chang et al., 1994). Significant earthquakes will likely occur in this area within the life expectancy of the project and the site will experience strong ground shaking from these events.

Based on the latest U.S. Geological Survey (USGS) interactive web application, *Unified Hazard Tool* <https://earthquake.usgs.gov/hazards/interactive/> probabilistic seismic hazard analyses (PSHA) predict the Design Basis Earthquake (475-year return period) peak horizontal ground acceleration will be on the order of 0.52g for the alluvial soil conditions of the Site D (average V_S=722 ft/sec). The mean magnitude from this PSHA is 6.5(Mw) with a mean distance of 14.13 km from the property. Utilizing a 2% probability of exceedance in 50 years (2,475-year return period) the peak ground acceleration is estimated to be 0.85g based on a seismic event with a mean magnitude of 6.51(Mw) at a mean distance of 11.04 km. The modal magnitude from this analysis is 6.3(Mw) and the modal distance is 11.02 km from the property. Additional seismic data is presented in later sections and in Appendix C.

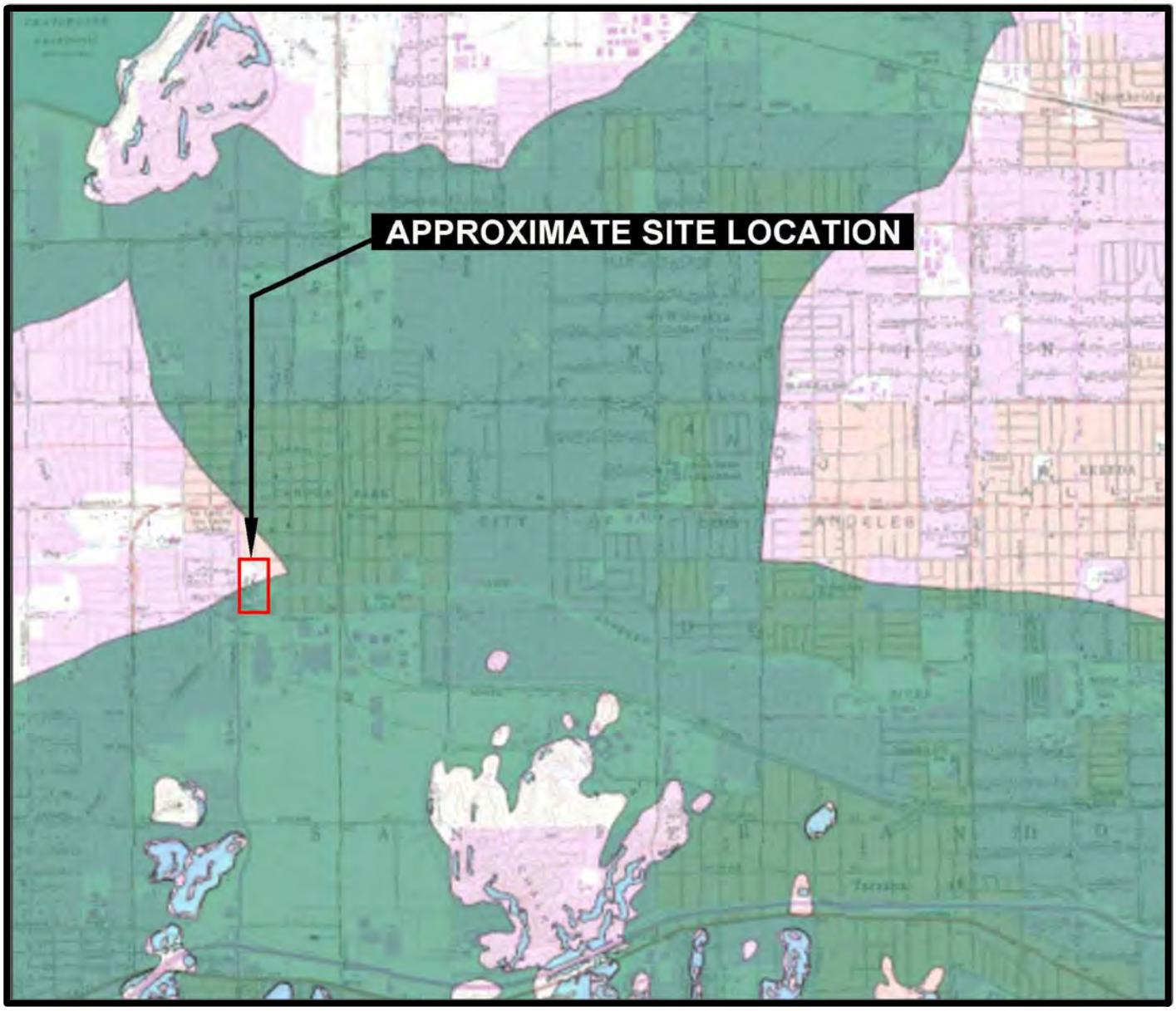
Secondary effects of strong ground motion include Tsunami, seiche, liquefaction, settlement, landslides, etc. Tsunami (seismic sea wave and seiche (standing wave) are not hazards inherent to the site due to its distant proximity to the ocean and any large bodies of water. Likewise, seismically induced landsliding is not a hazard inherent to the relatively flat site. Earthquake induced liquefaction and seismic settlement affecting the proposed site development are discussed below.

4.7 LIQUEFACTION/DRY SAND SETTLEMENT POTENTIAL

Liquefaction is a seismic phenomenon in which saturated cohesionless soils (sands and non-plastic silts) lose strength when severely shaken during an earthquake and develop excess water pore pressures. As stated in the CDMG (1997) report, “In order to be susceptible to liquefaction, potentially liquefiable soils should be saturated or nearly saturated. In general, liquefaction hazards are most severe in the upper 50 feet of the surface…”. Dry sand settlement or seismic settlement is the dynamic compaction due to seismic shaking of dry, loose, sandy soils with little to no cohesion.

The Site is in an area zoned by the State as being susceptible to liquefaction (CGS, 1998, see Figure 4). A seismic settlement analyses was performed using the computer program GeoSuite Liquefaction. For liquefaction/seismic settlement evaluations, the 2019 CBC / ASCE/SEI 7-16 designates a ground motion with a 2% chance of being exceeded in 50 years (2475 return period) be utilized in the analyses. The site modified peak ground acceleration (PGA_M) in accordance with ASCE 7-16 is 0.648g. The ASCE 7-16 parameters were utilized in our current seismically induced settlement analyses (including recent and previous exploration points) and yielded seismically induced settlement on the order of 0 to 1-2/3 inches; see Appendix C. Settlement can be separated into dry sand settlement of 0 to ¼ inch and liquefaction settlement of 0 to 1-2/3 inches.

Differential seismic settlement is typically anticipated to be one-half of the total seismic settlement. Based on the estimated seismic settlement at the surface, and the uniformity thereof, the estimated differential seismic settlement will be on the order of ½ to ¾ inch across 30 feet. The analyses were conducted using CPT sounding data and SPT data from the truck mounted hollow-stem auger borings. The SPT tests were performed using a 140-pound automatic trip hammer dropped 30 inches. The SPT sampler, machined for a liner, did not have a liner during testing. Field N-value blow counts were normalized to 1 ton/square foot and corrected for the rig efficiency, hammer type, sampler type (no liner), rod length, and fines content (where applicable) as described in the Recommended Procedures for Implementation of CDMG Special Publication 117 (SCEC 1999).



SEISMIC HAZARD ZONES

Liquefaction Zones
Areas where historical occurrence of liquefaction, or local geological, geotechnical and ground water conditions indicate a potential for permanent ground displacements such that mitigation as defined in Public Resources Code Section 2693(c) would be required.

Source
California Geological Survey, *Seismic Hazard Zones Map, Canoga Park Quadrangle, Official Maps Released February 1, 1998.*

SEISMIC HAZARDS MAP

Canoga Park High School
6850 Topanga Canyon Blvd.
Canoga Park, California

Gorian & Associates, Inc.
Applied Earth Sciences

Job No: 2880-83-3-101		Date: May 2022
Scale: 1" = 5000'	Drawn by:	Figure 4
	Approved by:	

Potential lateral spread was calculated using Youd, Hansen, and Bartlett for the CPTs closest to the Bell Creek and Arroyo Calabasas Los Angeles County Flood Control Channels. The channels were assumed to be 15 feet deep. Boring B-13, B-16, CPT-17, CPT-20, and CPT-21 when subjected to the 2,475-year return period event yielded lateral spread of less than ¼ to ½ inch toward the channels.

4.8 CORRELATION CPT AND BORING

Boring B-15 and CPT-15 were excavated in the same general area. The subsurface profile for both explorations consisted generally of clay materials with scattered silty sand to sandy silt layers. In B-15 the sandier layers were encountered from 19½ to 23 feet and 28½ to 29½ feet bgs. In CPT-15 the sandier layers were encountered from 19 to 19½ feet and 41½ to 42½ feet bgs. Groundwater was encountered at 18½ feet in the boring and 19 feet in the CPT. The calculated seismic settlement was 0.69 in the boring and 0.14 in the CPT. This is likely due to the thicker layer assumed in the boring due to discrete sampling rather than continuous logging in the CPT.

4.9 HYDRO-COLLAPSE

Based on the cohesive and expansive nature of the onsite soils and consolidation testing, soils at the site are not susceptible to hydro-collapse.

5.0 GEOTECHNICAL CONCLUSIONS AND RECOMMENDATIONS

From a geotechnical standpoint, our geotechnical evaluation for the comprehensive modernization project has found that with proper design and construction practices, the Site is suitable for future development/modernization. Geotechnical recommendations presented in the following sections of this report should be incorporated into the design and construction of the project. Recommendations concerning site preparation, grading and foundations are provided in the following sections. The presence of existing improvements adjacent the construction areas should be considered during all design and construction activities.

5.1 SOIL EXPANSIVENESS

Soil expansion tests were performed on three representative soil samples from the current evaluation to supplement the two previous expansion tests at the site. Test results indicate the underlying near surface materials have a low to medium to high expansion potential, in the 21-50, 51-90, and 91-130 Expansion Index ranges.

Expansive soils contain clay particles that change in volume (shrink or swell) due to a change in the soil moisture content. The amount of volume change depends upon the soil swell potential (amount of expansive clay in the soil), availability of water to the soil, and the soil confining pressure. Swelling occurs when soils containing clay become wet due to excessive water from poor surface drainage, over-irrigation of lawns and planters, and sprinkler or plumbing leaks. Swelling clay soils can cause distress to structures, walks, drains, and patio slabs.

Swelling clay soils can cause distress to construction (generally as uplift). Construction on expansive soil has an inherent risk that should be acknowledged and understood by the developer/property owner. The geotechnical recommendations presented herein are intended to reduce the potential for expansive soil action. However, these recommendations are not intended, nor designed to provide complete and full mitigation of expansive soil conditions. The following should be maintained within the site.

a) Positive drainage should be continuously maintained away from structures and slopes. Ponding or trapping of water in localized areas near the foundations can cause differential moisture levels in subsurface soils. Plumbing leaks should be immediately repaired so that the subgrade soils underlying the structure do not become saturated.

b) Trees and large shrubbery should not be planted where roots can grow under foundations and flatwork when they mature.

c) Landscape watering should be held to a minimum; however, landscaped areas should be maintained in a uniformly moist condition and not allowed to dry-out. During extreme hot and dry periods, adequate watering should be provided to keep soil from separating or pulling back from the foundations.

5.2 SOIL CORROSIVITY

Five samples of on-site soils from the current evaluation were obtained and sent to Project X for soil chemistry analyses. Their report, attached in Appendix B-1, indicate the corrosion class of concrete in contact with the onsite soils is moderate to severe for sulfate and chloride exposure. Additionally, the onsite soils are corrosive to very corrosive to ferrous metals and corrosive to copper piping. See Appendix B-1 for recommendations.

5.3 GEOTECHNICAL SEISMIC DESIGN

The Site may experience strong ground shaking from seismic events generated on regionally active faults. Seismic ground motion parameters were evaluated using a simplified code-based approach and ground motion procedures for seismic design. The simplified code-based approach follows the procedures in ASCE/SEI 7-16 Section 11.4. Retrofit values were obtained from ASCE 41-17 using the standard of BSE-1E, BSE-2E, BSE-1N, and BSE-2N. The results are presented below and in Appendix C.

Seismic ground motion values based on ASCE/SEI 7-16 are adjusted to obtain the maximum considered earthquake (MCE) spectral acceleration values for the Site based on its site class of D. The seismic design parameters for the Site's coordinates (latitude 34.1955° North and longitude 118.6045° West) were obtained from the SEAOCC and OSHPD website that interfaces with and queries the U.S. Geological Survey (USGS) web servers to retrieve seismic design variables. https://seismicmaps.org.

Seismic Parameters based on ASCE/SEI 7-16

SEISMIC PARAMETER	VALUE PER ASCE/SEI 7-16
MCE_R ground motion (for 0.2 second period), S_s	1.5g
MCE_R ground motion (for 1.0 second period), S_1	0.6g
Site Class Definition	D
Site amplification factor at 0.2 second, F_a	1.0
Site amplification factor at 1.0 second, F_v	1.7*
Site-modified spectral acceleration value, $S_{MS} = F_a S_s$	1.5g
Site-modified spectral acceleration value, $S_{M1} = F_v S_1$	1.02*
Numeric seismic design value at 0.2 second, $S_{DS} = 2/3 S_{MS}$	1g
Numeric seismic design value at 1.0 second, $S_{D1} = 2/3 S_{M1}$	0.68*
Site amplification factor at PGA, F_{PGA}	1.1
Site Modified peak ground acceleration, PGA_M	0.648g
*The code-based values presented in the table above may be used in lieu of performing a ground motion hazard analysis only if the exceptions outlined in ASCE/SEI 7-16 Section 11.4.8 are followed.	

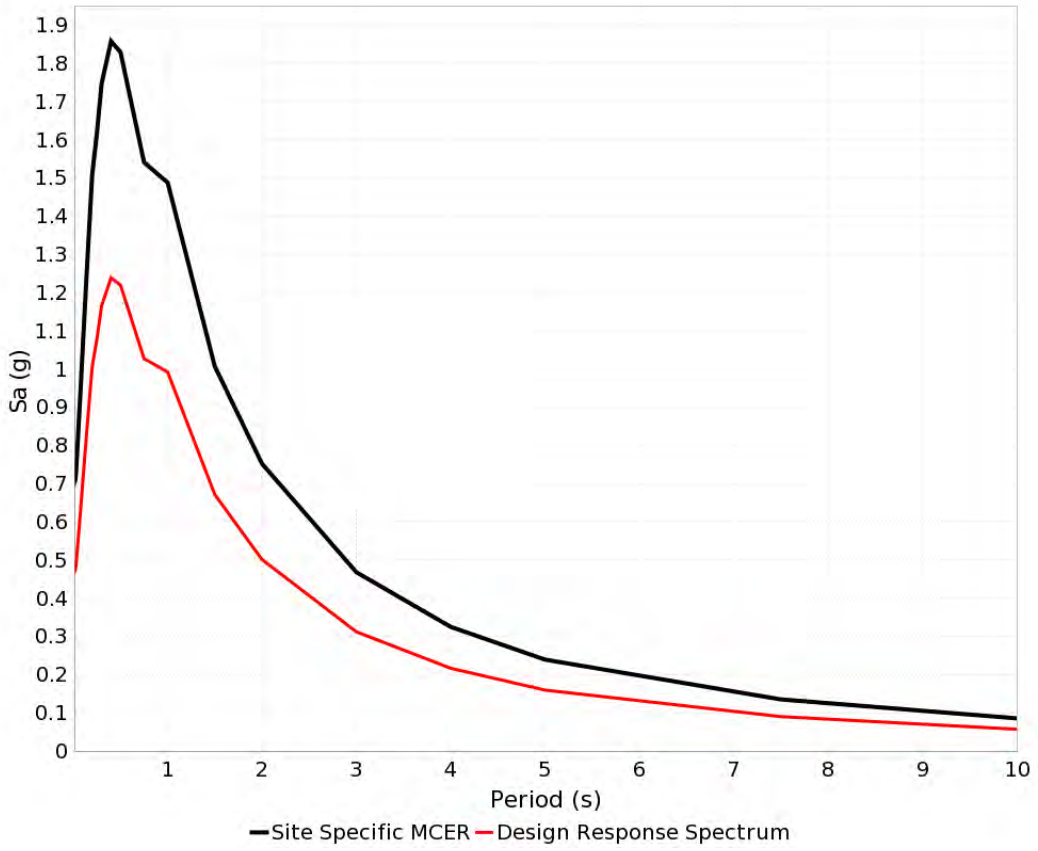
Seismic Parameters based on ASCE 41-17 Retrofit Standard, BSE

SEISMIC PARAMETER	VALUE BSE-1E	VALUE BSE-2E	VALUE BSE-1N	VALUE BSE-2N
Spectral response (0.2 s), S_S	0.756g	1.413g		1.5g
Spectral response (1.0 s), S_1	0.243g	0.488g		0.6g
Site Class Definition	D			
Site-Modified spectral response (0.2 s), S_{XS}	0.906g	1.413g	1g	1.5g
Site-Modified spectral response (1.0 s), S_{X1}	0.513g	0.884g	0.68g	1.02g
Site amplification factor (0.2 s), F_a	1.197	1		1
Site amplification factor (1.0 s), F_v	2.114	1.812		1.7

The purpose of the building code earthquake provisions is primarily to safeguard against major structural failures and loss of life, not to limit damage nor maintain function. Therefore, values provided in the building code should be considered minimum design values and should be used with the understanding site acceleration could be higher than addressed by code-based parameters. Cracking of walls and possible structural damage should be anticipated in a significant seismic event.

5.4 SITE-SPECIFIC MCE_R RESPONSE SPECTRA

A site-specific MCE_R Response Spectra was computed using the UGMS MCE_R tool developed by the Southern California Earthquake Center [SCEC] Committee for Utilization of Ground Motion Simulations (UGMS). An average V_{S30} value of 220 m/s was obtained from the CPT soundings. Presented below is the MCE_R Response Spectra. The output is provided in Appendix C.



5.5 INFILTRATION FEASIBILITY

As discussed above the upper soils and generally most of the soils at depth are clay soils. Hydrometer analyses and Atterberg Limit tests were further used to evaluate the soils. Based on the predominant clay soils present at the site, infiltration is considered to have a low feasibility.

5.6 SITE PREPARATION

Areas of new construction will require site preparation prior to foundation excavation or slab subgrade preparation. The following preliminary site preparation and grading recommendations are for the preparation of areas for construction of new buildings, retrofit buildings, and other exterior site improvements. These recommendations should be reviewed when more detailed plans are available for the modernization of the school.

The presence of the existing buildings should be considered during all design and construction activities. Care should be taken to protect existing foundations and their supporting soils at all times. All aspects of grading including site preparation, grading, and fill placement should be per the applicable Building Code.

5.6.1 Site Cleanup

Existing paving, debris, structures, etc. that are not a part of the final product should be removed from the construction area. Debris generated from the demolition should be hauled away. The exposed ground surface should be observed and tested by a field representative of this office to evaluate the consistency and similarity of the soils which will provide construction support.

5.6.2 Soil Removals

The soils below new buildings, or additions to existing buildings, and 5 horizontal feet beyond, as well as any non-engineered fill soils, where encountered, should be removed to firm in-place native soils. In addition, within the footprint of the structures and to a minimum distance of five feet beyond, at least three feet of newly compacted soils should be provided below shallow foundations. Where deep foundations (piles) are proposed, existing fill should be removed, where encountered, and a minimum of two feet of newly compacted fill soils should be provided for slab support.

In areas of paving, a minimum of two feet of newly compacted fill should be provided. Existing fill soils, where encountered, should be evaluated prior to placing new fill soils.

In areas of new retaining walls, a minimum of two feet of newly compacted fill should be provided below shallow foundations. Fill should be extended beyond the outside edge of the footings a horizontal distance equal to the depth of removal or five feet, whichever is greater. Existing fill soils, where encountered, should be evaluated prior to placing new fill soils.

Due to possible variations in the subsurface materials, local areas of deeper removals may be necessary. After these removals are completed as addressed above, the exposed ground surface should be observed by a field representative of this office to evaluate if it is suitable for placement of certified fill. Fill soils should not be placed until completion of the geotechnical observation.

Removals adjacent existing structures with shallow footings, if any, should not extend below a 2(horizontal):1(vertical) line extending down from the bottom of the footing or may need to be performed in slots to protect the existing foundations. Removals adjacent existing footings, as they are being made, and removal bottoms should be observed by a representative of this office.

The supporting soil for a new footing should be observed and recommendations for further removal, if necessary, will be made at that time.

Soil removal within existing buildings to be improved should be based on observations by a representative of this office of the existing soil conditions after being exposed by the general contractor. At this time, no significant soil removals are anticipated within existing buildings to be improved.

If soil removals are necessary within an existing building, removals within areas to receive fill or to provide support for the structure should expose competent materials (minimum 90 percent relative compaction). Removals adjacent existing structure footings should not extend below a 2(horizontal):1(vertical) line extending down from the bottom of the footing or may need to be performed in slots to protect the existing foundations. Removal bottoms should be observed by a representative of this office. In addition, removals adjacent footings should be observed by a representative of this office as the removals are made. The supporting soil for the new footing should be observed and recommendations for further removal, if necessary, will be made at that time.

5.6.3 In-Place Soil Processing

Following removals, the underlying 6 to 8 inches should be scarified, moisture conditioned to slightly above the optimum moisture content, and recompacted to at least 90% relative compaction.

5.6.4 Fill Placement

On-site soils may be reused as fill soils providing the soils are free of major vegetation, trash, and debris. Rocks greater than 6 inches in diameter (or smallest dimension) should be excluded from all fills placed. Suitable fill soils should be placed in thin (6 to 8 inch maximum) lifts, brought to above optimum moisture content, and compacted to at least 90% relative compaction.

5.6.5 Relative Compaction

Relative Compaction is the ratio of in-place dry soil density to the maximum dry soil density determined in general conformance with ASTM test method D 1557.

5.6.6 Temporary Excavations

During construction, the contractor is responsible for the excavation and maintenance of safe and stable slope angles considering the subsurface conditions and methods of operations. Temporary excavations should be made per the applicable requirements of the current Cal/OSHA excavation regulations. Geotechnical evaluation of temporary excavations can be provided when the excavation location is known.

Shallow excavations for construction made in cohesive properly engineered fill or firm natural soils should stand with vertical sides to a depth of 4 feet. Temporary slopes, above groundwater, to a maximum height of 15 feet may be constructed at a maximum 1(horizontal):1(vertical) gradient. Surcharge loading, such as construction supplies or equipment or vehicle traffic, should be kept away from the top of slope 10 feet or the depth of excavation, whichever is more.

5.7 SHORING RECOMMENDATIONS

Shoring may be required where space is not available to layback excavations. Excavation shoring may consist of soldier beams that are cantilevered, or other recognized methods. Shoring should be designed by an engineer experienced in shoring design. Shoring will encounter soils as previously addressed herein. Lagging may be used to support the cut between the beams. Grouting is the

preferred method to fill voids between the cut and lagging. Shoring should be designed to include the lowest construction elevation and provide adequate space for foundation construction.

5.7.1 Shored Depth

To facilitate possible removals for building foundation support, shoring should be designed for at least three feet of soil removal and recompaction depth below the bottom of the proposed footing elevations.

5.7.2 Shoring Soil Pressure

Shoring should be designed for lateral earth pressure plus lateral pressure imposed by adjacent surcharges. Cantilevered shoring systems should be designed for an active earth pressure equal to 30 pounds per cubic foot for the onsite clay soils in a level condition. This value is an ultimate value without a factor of safety. The width of active pressure acting on the pile below the bottom of the excavation may be taken as the pile diameter. The width should be increased to two pile diameters for a cantilevered soldier pile.

5.7.3 Surcharge Loading

Construction surcharging should be maintained, as a minimum, a horizontal distance equal to the depth of excavation from the shoring unless the shoring is specifically designed for surcharge loading. Lateral pressure on the shoring due to a uniform area surcharge of intensity q (force/area) is equal to a uniform pressure of 0.4q over the entire height of the wall.

5.7.4 Soldier Beam Passive Pressure

A passive earth pressure of 300 pounds per cubic foot (pcf) below the base of excavation may be used for design of soldier beams spaced at least three diameters center to center. This value may be increased to a maximum of 3,000 pounds per square foot (psf). The surface area (pile diameter if encased in structural concrete) may be doubled for soldier beams a minimum of three diameters apart center to center in the evaluation of passive resistance.

5.7.5 Lagging

Lagging consisting of treated timber may be required depending on the depth of the shored excavation and the material encountered. Wood lagging should be new rough timber (full dimension) Douglas fir, straight, free of bends, and free from defects that might impair structural strength. Lagging to be left in-place shall be pressure treated for contact with soil. The upper two feet of shoring and lagging measured from the adjacent grade may be removed when the shoring is no longer needed for support of the excavation.

Lagging should be designed to resist an equivalent fluid pressure equal to 30 pcf measured below the ground surface. A maximum lagging pressure of 300 psf may be assumed where the maximum soldier beam spacing does not exceed 8 feet center to center.

5.7.6 Pile Construction

The shoring contractor should be prepared to provide methods to prevent caving where low cohesive soils or groundwater are encountered. Construction should be performed in general accordance with ACI (American Concrete Institute) Manual of Concrete Practice, Section ACI 336.3R Design and Construction of Drilled Piers. Slurry should be used to support the pile excavations when adding water to the excavations is not sufficient to prevent caving of the excavations. The slurry may consist of a mixture of water and chemical polymers. The method selected by the contractor for excavation and construction of the drilled shafts should be discussed with this office. Piles should be drilled and cast in the same day.

Care should be exercised when casting adjacent piles to avoid blowout from one excavation into the other. Excavated materials from drilled shaft construction should not be spread over any areas of construction unless properly placed and compacted. Drilled pile excavation should be observed by this office to verify the anticipated geotechnical conditions.

5.7.7 Shoring Plan Review and Construction Inspection

A structural engineer with shoring experience should prepare the shoring plans. Our office should be provided the proposed shoring plans and calculations for review. Variations in subgrade conditions or construction techniques exercised by the Shoring Contractor should be reviewed by this office. This office should also perform geotechnical observations during the shoring construction.

5.8 SHALLOW FOUNDATION DESIGN

Geotechnical recommendations for conventional foundation systems are presented below based on soils with a medium to high expansion potential (51-130 Expansion Index range).

5.8.1 Conventional Footings

Continuous and isolated footings may be designed to impose an allowable bearing pressure of 2,000 pounds per square foot (psf). These bearing pressures apply for dead plus live loads and may be increased by one-third when considering wind or seismic loads.

Continuous and isolated footings should have minimum widths of 12 and 18 inches, respectively. The footings should be embedded a minimum of 30 inches. Embedment of exterior footings should be measured from the lowest adjacent exterior grade. Interior footings may be measured from the top of slab. Bearing values may be increased by 100 psf for each additional foot of depth above the minimum to a maximum of 3,000 psf. After excavation, footing bottoms should be observed by a representative of this office to evaluate if additional soil removal or recompaction is warranted.

Steel reinforcement should be per the structural engineer's recommendations; however, minimum continuous footing reinforcement should consist of two #5 bars in the top and bottom (total of 4 bars).

5.8.2 Conventional Footings - Retrofit

The seismic retrofit may be supported on continuous and isolated footings founded in suitable compacted fill soils or competent native soils and should be a minimum of 12 and 24 inches wide, respectively. Footings may be designed to impose an allowable soil bearing pressure of 2,000 psf provided they are a minimum of 30 inches below the lowest adjacent grade. This value includes a factor of safety of 3; so ultimate, without a factor of safety, soil bearing pressure of 6,000 psf may be used for existing buildings. The lowest adjacent grade is the lowest soil grade adjacent the footings, interior or exterior. The above net allowable bearing capacity may be increased by one-third for short-term wind and seismic loads.

Where the new footings are adjacent to existing footings they should be founded at the same depth, where possible. The new footings should not surcharge the existing footings, unless approved by the project structural engineer.

Steel reinforcement should be per the structural engineer's recommendations. However, minimum reinforcement for continuous footings should consist of two #5 bars in the top and bottom (minimum total of four bars).

5.8.3 Mat Foundation

Mat slabs may be designed using a modulus of subgrade reaction "k" of 90 pounds per cubic inch at the surface of a properly prepared building pad. A bearing pressure of 1,500 psf may be used at the surface of a properly prepared building pad.

5.8.4 Resistance to Lateral Loads

Passive soil pressure and friction may be used to resist lateral forces on the foundations. Lateral passive earth pressure may be considered equal to a fluid weighing 300 psf per foot to a maximum of 1,800 psf where the footing is on level ground. Base friction between the bottom of the footings and soil may be computed at 0.15 times the normal load. Lateral passive earth pressure and base friction have a factor of safety of 1.5 and may be combined without reduction. Ultimate values of 400 psf/ft for lateral passive earth pressure on level ground and 0.23 base friction may be used for retrofit.

5.8.5 Foundation Settlement

Settlements of new shallow footings due to static loading are anticipated to be minor with settlement on the order of ½ to 1-inch. This should be confirmed when the actual foundation loads become available. Differential settlements between adjacent columns with similar static loading are anticipated to be on the order of one half the total settlements. Differential settlement between new and existing foundations should be evaluated when the actual foundation locations and loads become available.

The potential for seismic induced settlement due to liquefaction has been previously discussed in this report.

All structures settle during construction and minor structure settlement can occur after construction during the life of the project. Minor wall or slab cracking may also be associated with settlement or expansive soil movement. Wall cracking can also occur associated with expansion and contraction of structural wood members due to thermal or moisture changes. Settlement or soil movement could occur if the soils become saturated due to excessive water infiltration generally caused by excessive irrigation, poor drainage, etc.

5.8.6 Footing Excavations

Footings should be cut square and level and cleaned of slough and soils silted into the excavations. A representative of this office should observe the footing excavations prior to placing reinforcing steel. The footings should be cast as soon as possible to avoid deep desiccation of the footing subsoils. Soil excavated from the footing trenches should not be spread over areas of construction unless properly compacted.

5.8.7 Moisture Penetration

Conventional footings subgrade soils should be premoistened to 3% over the optimum moisture content for a depth of 18 inches. However, the subgrade soils should not be flooded or soaked creating a saturated condition. A representative of this office should observe the subgrade soil premoistening prior to casting the concrete. Soils silted into the footing excavations during the premoistening operations should be removed prior to casting the concrete.

5.9 FLAGPOLE FOOTINGS

New, remodeled, or retrofit structures may be supported by flagpole footings. These footings (piles) may be designed using an allowable lateral bearing pressure of 300 psf per foot of depth for level ground (maximum pressure should not exceed 2,500 psf). This value has a factor of safety of 1.5. If deflection of pole foundations is a concern, deflection calculations can be provided when loads are known.

5.9.1 Micropiles

The axial load capacity of eight-inch diameter micropiles is based on the frictional resistance developed between the pile and the surrounding soils. The allowable downward axial capacity curve is presented in Appendix D, Figure D-1. The allowable capacities shown are based on friction only and have a factor of safety of 2. Uplift capacity may be taken as 2/3 of downward.

Piles should be spaced at least three pile diameters apart. For reduction in group capacity, the number of piles and spacing should be provided. However, in general, at 3 pile diameters (2') the downward capacity should be 80% of provided capacity and at 6 pile diameters the downward capacity is 100%; linear interpretation may be used in between. Preproduction and production testing of axial capacity should be performed.

Micropiles should not carry any horizontal loads. A passive pressure of 300 psf per foot to a maximum of 1,800 psf on level ground may be used for the pile cap.

5.9.2 Pile Construction

Depending upon the length of the pile and the groundwater level at the time of construction, seepage may be encountered during pile construction. As previously stated, groundwater was encountered in our exploratory borings at depths ranging from 17 feet to 20½ feet below ground surface.

Piles may be constructed below groundwater provided construction is performed in general accordance with ACI (American Concrete Institute) Manual of Concrete Practice, Section ACI 336.3R Design and Construction of Drilled Piers. Slurry may be used to support the pile borings. The slurry may consist of a mixture of water and chemical polymers or bentonitic materials. The method selected by the contractor for excavation and construction of drilled shafts should be discussed with this office. Piles which encounter groundwater should be drilled and cast in the same day. All other piles should be filled with concrete within a maximum period of 24 hours of being drilled.

Due to layers of sand, some caving or raveling should be anticipated during the pile construction. To minimize caving potential, piles should be filled with concrete in a timely manner and not left open overnight. The drilling contractor should be prepared to use casing or slurry in areas where excessive caving occurs.

Care should be exercised when casting adjacent piles to avoid blowout from one excavation into the other. From an engineering standpoint, the preferred method would be to excavate, cast, and let the concrete achieve initial set prior to excavating the adjacent pile. However, where spacing between adjacent piles is greater than three times the largest pile diameter, satisfactory results have been achieved by casting adjacent piles simultaneously, keeping the differential elevation of the concrete less than five feet between piles.

5.10 SLAB DESIGN

5.10.1 Slabs-On-Grade

The concrete slabs-on-grade within the building interiors should be a minimum of 4 inches thick and underlain by a minimum of 6 inches of aggregate as required by the applicable building code. Reinforcement should consist of a minimum of #4 bars at 18 inches on centers in both directions or per the structural engineer's design. The slab steel reinforcement should be extended into the foundations to within 3 inches of the footing bottom at 36 inches on center.

5.10.2 Concrete Placement and Cracking

Minor cracking of concrete slabs is common and is generally the result of concrete shrinkage continuing after construction. Concrete shrinks as it cures resulting in shrinkage tension within the concrete mass. Since concrete is weak in tension, development of tension results in cracks within the concrete. Concrete should be placed using procedures to minimize the cracking within the slab. Shrinkage cracks can become excessive if water is added to the concrete above the allowable limit and proper finishing and curing practices are not followed. Concrete mixing, placement, finishing, and curing should be performed per the American Concrete Institute Guide for Concrete Floor and Slab Construction (ACI 302.1R). Concrete slump during placement should not exceed the design slump specified by the structural engineer. Where shrinkage cracks would be unsightly, concrete slabs on grade should be provided with tooled crack control joints at 10-15 foot centers or as specified by the structural engineer.

5.10.3 Under-Slab Treatment

Where moisture sensitive floor coverings will be utilized, an appropriate moisture vapor retarder layer should be installed and maintained below the concrete slabs to reduce moisture vapor transmission through the slab. Ten-mil plastic sheeting is commonly used as a moisture vapor retarder layer. If a higher degree of moisture retarder is warranted, a retarder in general accordance with ASTM E 1745 *Standard Specification for Plastic Water Vapor Retarders Used in Contact with Soil or Granular Fill under Concrete Slabs* should be considered below the interior concrete slabs on-grade installed per ASTM E1643 *Standard Practice for Installation of Water Vapor Retarders Used in Contact with Earth or Granular Fill Under Concrete Slabs*.

Perforations through the moisture vapor retarder such as at pipes, conduits, columns, grade beams, and wall footing penetrations should be sealed per the manufacturer's specifications or the previously cited ASTM E1643. Proper construction practices should be followed during construction of the slab on-grade. Repair and seal tears or punctures in the moisture barrier that may result from the construction process prior to concrete placement.

Minimizing shrinkage cracks in the slab-on-grade can further minimize moisture vapor emissions. A properly cured slab utilizing low-slump concrete will reduce the risk of shrinkage cracks in the slab as described herein.

The concrete contractor should be made aware of the moisture vapor retarder and be required to protect the layer. Perforations made in the layer by the concrete contractor should be properly sealed prior to concrete placement. In addition, if the concrete is placed directly on top of the layer the concrete contractor should make the necessary changes in the concrete placement and curing. Placing the concrete directly on top of the moisture vapor retarder layer allows the layer to be observed for damage directly prior to concrete placement.

The slabs should be tested for moisture content prior to the selection of the flooring and adhesives. Moisture in the slabs should not exceed the flooring manufacturer's specifications. The concrete surface should be sealed per the manufacturer's specifications if the moisture readings are excessive.

Where cuts are made into the slab for future construction, the moisture vapor retarder layer should be repaired per the manufacturer's recommendation. Information regarding the need to repair the moisture vapor retarder layer and information on the selection of acceptable floor coverings should be conveyed to the school district personnel.

5.10.4 Moisture Penetration

Conventional footings and reinforced slab-on-grade subgrade soils should be premoistened to 3% over the optimum moisture content for a depth of 18 inches. However, the subgrade soils should not be flooded or soaked creating a saturated condition. A representative of this office should observe the subgrade soil premoistening prior to casting the concrete. Soils silted into the footing excavations during the premoistening operations should be removed prior to casting the concrete.

5.11 LANDSCAPING ADJACENT TO BUILDINGS

If planting is required up against or near a building, from the geotechnical point of view, the following should be maintained:

- Positive drainage should be continuously maintained away from structures
- Trees and large shrubbery should not be planted where roots can grow under foundations and flatwork when they mature
- Landscape watering should be held to a minimum; however, landscaped areas should be maintained in a uniformly moist condition and not allowed to dry-out
- If raised planter beds are utilized, they should be sealed and the building should be waterproofed
- Soil amendments should not be corrosive to the foundations or utilities
- Compacted soil adjacent to the building should be at 90% relative compaction

5.12 RETAINING WALLS

5.12.1 General

Retaining walls, if any, may be constructed within the Site using the following recommendations. Lateral pressures exerted on retaining walls by backfill material will depend on the type of backfill materials used (gravel, clay, etc.), and the ability of the wall to deflect or rotate at the top. Cantilever type retaining walls capable of deflecting and/or rotating may be designed for active pressure conditions. However, restrained retaining walls should be designed for at-rest earth pressures, which are higher than the active pressure.

Additional pressure may also be exerted on retaining walls besides the backfill pressure. For example, foundations located behind retaining walls will laterally surcharge the retaining wall. Furthermore, sloping backfill materials will exert more lateral pressure on retaining walls than level backfill.

Geotechnical recommendations for retaining wall design are provided below. All backfill materials are assumed to be low- to non-expansive granular materials. Onsite soils are generally not suitable for retaining wall backfill materials.

5.12.2 Retaining Wall Foundations

Shallow footings should be at least 24 inches wide and embedded at least 30 inches into firm soils. Footings of minimum size and embedment, placed in firm competent materials may be designed for a maximum bearing capacity of 2,000 pounds per square foot (psf). The bearing capacity may be increased by 100 psf for each additional foot increase in footing depth, up to a maximum bearing capacity of 3,000 psf. The allowable bearing capacity may be increased by one-third for short term loads associated with wind and seismic loading.

Footing excavations should be observed by a representative of this office prior to placing reinforcing steel. Loose or soft soils exposed in the excavation should be overexcavated and the area backfilled with fill compacted to at least 90 percent compaction, as directed by this firm.

5.12.3 Lateral Earth Pressures

Retaining walls should be backfilled with granular soils having a very low to low expansion potential (Expansion Index less than 50). Walls allowed to yield at the top may be designed for an active pressure of 40 and 62 pounds per cubic foot for a level and 2(horizontal):1(vertical) slope backfill condition, respectively. Retaining walls fixed at the top should be designed to resist an at-rest earth pressure equivalent to a fluid having a density of 60 pcf for level backfill. The above soil pressures are not designed to resist expansion of the backfill or hydrostatic pressures due to water. Therefore, backfill should be well drained. Wall heights are measured from the top of the retained material to the bottom of the foundation. Aerial surcharge may be treated as additional height of backfill where one foot of additional height is assumed for each 125 psf of aerial surcharge.

5.12.4 Lateral Seismic Pressure

Retaining walls greater than 6 feet in height should be designed for a seismic lateral pressure. Utilizing the County of Los Angeles design method indicates, for cantilevered walls the seismic equivalent fluid pressure may be taken as 10 pounds per cubic foot for level backfill. For restrained walls the seismic equivalent fluid pressure may be taken as 16 pounds per cubic foot. This force is added to the static earth pressures.

$\Delta P_{AE} = ½*\gamma*H^2*(.42*PGA/g) = ½*115*H^2*(.42*0.4) = 10$ pcf for level backfill

$\Delta P_{AE} = ½*\gamma*H^2*(.68*PGA/g) = ½*115*H^2*(.68*0.4) = 16$ pcf for basement / restrained wall

Where $PGA = S_{DS}/2.5 = 1.0/2.5 = 0.4$

5.12.5 Waterproofing

Retaining walls should be waterproofed prior to installing the drainage system and wall backfill.

5.12.6 Drainage

A drainage system should be constructed behind retaining walls over two feet high to mitigate possible buildup of hydrostatic pressures. The drainage system may consist of either a drainage composite or granular drain consisting of a minimum 12 inch wide zone of 3/4 ± inch rock separated from the native materials by a single layer of filter cloth. The drainage system should extend to within 2 feet of finish grade with the upper 2 feet backfilled with native material. The drainage system should be hydraulically connected to a perimeter pipe drain consisting of a minimum 4 inch diameter perforated PVC (Schedule 40) pipe or equivalent. The pipe may be laid horizontally on the footing with the pipe invert at least 6 inches below any adjacent top of slab-on-grade. The outlet pipe from the perimeter drain should be a non-perforated 4 inch diameter PVC (Schedule 40) pipe that is sloped to drain to an appropriate location. An as-built plan should be prepared detailing the location of the wall drainage system.

5.12.7 Backfilling

Retaining walls should be backfilled with soils having an Expansion Index of less than 50, which may require select grading or import. The backfill should be placed in 6-inch lifts at slightly over optimum moisture content and compacted to at least 90 percent relative compaction. If the backcut is flatter than ½(horizontal):1(vertical), the backfill should be benched into the backcut slope. Light equipment should be used immediately behind the walls to prevent possible over-stressing.

5.13 EXTERIOR SLABS AND WALKWAYS

Exterior concrete slabs-on-grade and walkways should be a minimum of 4 inches thick and underlain by a minimum of 4 inches of sand. Exterior slabs should be reinforced with a minimum of #3 bars on 24 inch centers in each direction. Slabs should have crack control joints (full depth joints) at intervals of 10 to 15 feet. Sidewalks may consist of unreinforced concrete provided the walks are provided with crack control joints at spacing equal to the walk width.

Concrete subgrade soils should be properly placed and compacted for support of the concrete flatwork. Prior to placing concrete, the subgrade soils should be premoistened to a minimum of 3% over the optimum moisture content for a minimum depth of 12 inches. Proper premoistening can reduce the risk of slab subgrade expansion, if used in addition to other preventive measures. Subgrade soil pre-moistening should be observed by this office prior to placing the concrete.

5.14 PRELIMINARY PAVING SECTION

5.14.1 Structural Section

Structural sections consisting of asphaltic concrete (AC) placed over a compacted layer of aggregate base are provided in the table below based on an R value for the subgrade soils of less than 5. The asphalt and base should be properly placed and compacted to a minimum of 95% relative compaction. The project civil engineer should determine the appropriate traffic index for the pavement area. If buses will be using any of the drive areas a higher traffic index and thicker pavement section should be considered.

Asphalt pavements should be maintained by filling cracks that appear and with periodic application of fog sealers to replace surface oils that are lost due to weathering and wear.

PRELIMINARY PAVEMENT SECTIONS	
Traffic Index	Assumed “R” Value ≤ 5
4.0 playground	3” AC / 7” AB
5.0 parking	3” AC / 10” AB
6.0 automobile traffic / fire lane	3” AC / 14” AB or 4” AC / 12”
AC = Asphaltic Concrete AB = Aggregate Base	

5.14.2 Subgrade Preparation

The subgrade soils within areas of proposed paving should be moistened to slightly above the optimum moisture content and compacted to at least 90% relative compaction prior to placing aggregate base.

5.14.3 Aggregate Base Preparation

The aggregate base materials should be moistened to slightly above the optimum moisture content and compacted to at least 95% relative compaction prior to placing concrete.

5.15 SITE DRAINAGE

Positive drainage should be consistently provided and maintained away from structures during and after construction per the grading plan and/or applicable building codes. In addition, drainage should not be changed creating an adverse drainage condition.

Water should not be allowed to gather or pond against foundations or hardscape allowing water migration into the subgrade. Therefore, landscape watering should be held to a minimum and irrigation systems maintained in good repair. Sprinkler or plumbing leaks should be immediately repaired. Trees should be spaced so that roots will not extend under foundations or slabs. Planters near a structure should be constructed so that irrigation water will not saturate footing and slab subgrade soils.

6.0 PLAN REVIEW

As the design process continues, this office should review the building location, grading plans, foundation plans and specifications prior to starting construction to review conformance to recommendations in this report. Additional geotechnical site evaluation may be necessary when plans are available for the modernization project. Additional analysis and recommendations may be necessary based for the plan review.

7.0 CLOSURE

This report was prepared under the direction of a registered geotechnical engineer and certified engineering geologist. No warranty, expressed or implied, is made as to conclusions and professional advice included in this report. Gorian and Associates, Inc. disclaims any and all responsibility and liability for problems that may occur if the recommendations presented in this report are not followed.

This report was prepared for Los Angeles Unified School District and their design consultants solely for design and construction of the development described herein. This report may not contain sufficient information for other uses or the purposes of other parties. The recommendations are based on interpretations of the subsurface conditions concluded from information gained from subsurface explorations and a surficial site reconnaissance. The interpretations may differ from actual subsurface conditions, which can vary horizontally and vertically across the site. Due to possible subsurface variations, a representative of this office should observe all aspects of field construction addressed in this report. Anyone using this report for bidding or construction purposes should perform such independent investigations as they deem necessary.

The scope of the services provided by Gorian and Associates, Inc. and its staff, excludes responsibility and/or liability for work conducted by others. Such work includes, but is not limited to, means and methods of work performance, quality control of the work, superintendence, sequencing of construction and safety in, on, or about the jobsite.

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Please contact our office if you have questions regarding this report or require additional information.

Respectfully,

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APPENDIX A

LOGS OF SUBSURFACE DATA

Project: LAUSD - Canoga Park High School

SUBSURFACE LOG

Work Order: 2880-83-3-100

Excavation Number: B-11

Page Number: 1

Date(s) Excavated 12/11/21	Logged By CHD	Excavation Location See Geotechnical Map	Approximate Surface Elevation 794.7'±
Excavation Dimension 8" Dia.	Equipment Contractor Choice Drilling	Equipment Type Hollow Stem Auger	Hammer Data 140#, 30"

Elevation / Depth (ft.)	Bulk	Sample Type	Blow Counts	Moisture Content (% dry weight)	Dry Density (pcf)	USCS	Soil / Lithology	Description	Remarks
0						CL		ALLUVIUM: Yellowish brown silty CLAY (damp, very stiff).	S:M:C
			25	11.4	107				@3' 33:35:32
790 – 5			52	25.2	97			At 5'; becoming moist, hard.	
			21	21.0	93			At 7'; becoming very moist, very stiff.	
785 – 10			34	24.3	97			At 10'; some calcium carbonate veinlets, beoming hard.	
			21	27.3	92			At 12'; becoming very stiff.	
780 – 15			19	21.6	97				
								At 18'; groundwater based on water line on rods.	
775 – 20			12	--	--				
						CL		Very dark gray sandy CLAY (saturated, very stiff).	
			20	25.2	100				
						CL		Yellowish brown sandy CLAY (saturated, very stiff).	
770 – 25			17	22.4	102				
765 – 30			17	22.8	102				
								Total Depth 31' No Caving Observed Groundwater encountered at 18' Backfilled with mixture of cement, MX80, and water.	
760 – 35									
755 – 40									

Project: LAUSD - Canoga Park High School

SUBSURFACE LOG

Work Order: 2880-83-3-100

Excavation Number: B-12

Page Number: 1

Date(s) Excavated 12/4/21	Logged By CHD	Excavation Location See Geotechnical Map	Approximate Surface Elevation 794.2'±
Excavation Dimension 8" Dia.	Equipment Contractor Choice Drilling	Equipment Type Hollow Stem Auger	Hammer Data 140#, 30"

Elevation / Depth (ft.)	Bulk Sample Type	Blow Counts	Moisture Content (% dry weight)	Dry Density (pcf)	USCS	Soil / Lithology	Description	Remarks
0							ASPHALTIC CONCRETE (2½") ON AGGREGATE BASE (5"). Damp, dense).	S:M:C
					CL		ALLUVIUM:	
		37	16.4	108			Brown silty CLAY (damp to moist, hard). Some calcium carbonate veinlets.	
		48	20.6	106				
790								
5		60	25.3	98				
		35	25.3	91	CL		Yellowish brown silty CLAY (moist, hard) . Some calcium carbonate veinlets.	
785								
10		25	22.8	95				
		4/4/5					At 12½'; becoming very moist, stiff.	@12.5' 27:34:39
780								
15		19	25.7	98				
					SC		Yellowish brown clayey fine SAND (very moist, medium dense).	
					SM		Yellowish brown silty fine to coarse SAND with fine to coarse gravel (very moist).	
		4/3/5			SC		Yellowish brown clayey fine to coarse SAND (very moist to wet, loose).	
					CL		Yellowish brown silty CLAY (wet, stiff).	
775					SM		Yellowish brown silty fine SAND (saturated, loose). Hole left open 5 minutes. Groundwater at 19½'.	
20		17	23.6	101	CL		MX80 drilling mud added inside auger prior to sample at 20'. Auger kept full.	
					SC		Yellowish brown sandy CLAY (saturated, very stiff).	
		5/9/9					Yellowish brown clayey fine SAND (saturated, medium dense).	
770					CL		Yellowish brown sandy CLAY (saturated, very stiff).	
25		28	--	--				
					CL		Yellowish brown silty CLAY, trace fine Sand (saturated, stiff to very stiff).	
		6/7/7						
765								
30		21	23.7	101				
					CL		Pale yellow silty CLAY (saturated, very stiff).	
		4/5/6					At 32½'; becoming stiff.	
760								
35					SC		Yellowish brown clayey fine SAND (saturated, medium dense).	
		4/6/9						
					CL		Yellowish brown mottled with gray sandy CLAY (saturated, very stiff).	
		6/8/9			CL		Yellowish brown silty CLAY (saturated, very stiff).	
755								
40		7/9/11						

Project: LAUSD - Canoga Park High School

SUBSURFACE LOG

Work Order: 2880-83-3-100

Excavation Number: B-12

Elevation / Depth (ft.)	Bulk Sample Type	Blow Counts	Moisture Content (% dry weight)	Dry Density (pcf)	USCS	Soil / Lithology	Description	Remarks
750 / 45		7/10/14						
		10/14/19					At 45'; some calcium carbonate veinlets. Becoming hard.	
745 / 50		7/9/10					At 47½'; becoming very stiff.	
		10/12/16			CL		Yellowish brown sandy CLAY (saturated, very stiff).	
740 / 55							Total Depth 51½' No Caving Observed Groundwater encountered at 19½' Backfilled with cement, MX80 and water mixture. A.C. Cold Patch on top.	
735 / 60								
730 / 65								
725 / 70								
720 / 75								
715 / 80								
710 / 85								

Project: LAUSD - Canoga Park High School

SUBSURFACE LOG

Work Order: 2880-83-3-100

Excavation Number: B-13

Page Number: 1

Date(s) Excavated 12/11/21	Logged By CHD	Excavation Location See Geotechnical Map	Approximate Surface Elevation 793.5'±
Excavation Dimension 8" Dia.	Equipment Contractor Choice Drilling	Equipment Type Hollow Stem Auger	Hammer Data 140#, 30"

Elevation / Depth (ft.)	Bulk Sample Type	Blow Counts	Moisture Content (% dry weight)	Dry Density (pcf)	USCS	Soil / Lithology	Description	Remarks
0					CL		ALLUVIUM: Brown to yellowish brown silty CLAY (damp, hard).	S:M:C
		43	12.1	101				@2' 13:41:46
790								
5		80	19.9	102			Below 5'; common calcium carbonate veinlets.	
		80	25.1	96				
785								
10		5/6/6					At 10'; becoming moist, stiff.	
		31	27.0	94				
780								
15		4/5/7					At 15'; becoming very moist to wet.	
					SC		Yellowish brown clayey SAND (saturated, medium dense).	
775		13	27.3	93	CL		Yellowish brown silty CLAY (saturated, stiff).	
20		4/5/6			CL		Dark brown silty CLAY (saturated, stiff). Hole left open 5 minutes. Groundwater at 18½'. MX80 added inside auger prior to advance to 22½'. Auger kept full.	
		17	25.1	99	CL		Yellowish brown sandy CLAY (saturated, very stiff).	
770								
25		5/6/7					At 25'; becoming stiff.	
		19	24.0	98			At 27½'; becoming very stiff.	
765								
30		7/9/19						
					SM		Yellowish brown silty fine SAND (saturated, medium dense).	
		6/8/10			CL		Yellowish brown silty CLAY (saturated, very stiff).	
760					CL		Pale yellow silty CLAY (saturated, very stiff).	
35		5/6/9						
		7/8/12						
755					CL		Yellowish brown mottled with gray silty CLAY (saturated, very stiff).	
40		9/10/13						

GORIAN & ASSOCIATES, INC.

Project: LAUSD - Canoga Park High School

Work Order: 2880-83-3-100

SUBSURFACE LOG

Excavation Number: B-13

Elevation / Depth (ft.)	Bulk Sample Type	Blow Counts	Moisture Content (% dry weight)	Dry Density (pcf)	USCS	Soil / Lithology	Description	Remarks
750 / 45		7/9/10						
745 / 50		6/8/9			CL		Yellowish brown silty CLAY (saturated, very stiff).	
		10/13/16						
		12/16/18					At 50'; becoming hard.	
740 / 55							Total Depth 51½' No Caving Observed Groundwater Encountered at 18½' Backfilled with mixture of cement, MX80, and water.	
735 / 60								
730 / 65								
725 / 70								
720 / 75								
715 / 80								
710 / 85								

Project: LAUSD - Canoga Park High School

SUBSURFACE LOG

Work Order: 2880-83-3-100

Excavation Number: B-14

Page Number: 1

Date(s) Excavated 12/18/21	Logged By CA	Excavation Location See Geotechnical Map	Approximate Surface Elevation 793.5'±
Excavation Dimension 8" Dia.	Equipment Contractor Choice Drilling	Equipment Type Hollow Stem Auger	Hammer Data 140#, 30"

Elevation / Depth (ft.)	Bulk	Sample Type	Blow Counts	Moisture Content (% dry weight)	Dry Density (pcf)	USCS	Soil / Lithology	Description	Remarks
0 / 790						CL		ALLUVIUM: Dark brown silty CLAY with fine Sand (very moist, very stiff).	S:M:C
			23	18.2	--				@3' 28:38:34
5 / 785			41	25.2	96			At 5'; becoming hard, moist.	
			36	26.3	95	CL		Yellowish brown silty CLAY with calcium carbonate veinlets (moist, hard).	
10 / 780			33	28.4	90				
			30	31.3	90				
15 / 775			24	28.3	90	CL		Yellowish brown silty CLAY (moist, very stiff).	
20 / 770			11	31.7	89	CL		Yellowish brown sandy CLAY (saturated, stiff). Hole left open 5 minutes, groundwater at 19'3".	
25 / 765			19	27.1	100			At 25'; becoming very stiff.	
30 / 760			18	25.1	101			Total Depth 31' No Caving Observed. Groundwater encountered at 19'3" Backfilled with mixture of cement, MX80, and water.	
35 / 755									
40									

Project: LAUSD - Canoga Park High School

SUBSURFACE LOG

Work Order: 2880-83-3-100

Excavation Number: B-15

Date(s) Excavated 12/4/21	Logged By CHD	Excavation Location See Geotechnical Map	Approximate Surface Elevation 794.5'±
Excavation Dimension 8" Dia.	Equipment Contractor Choice Drilling	Equipment Type Hollow Stem Auger	Hammer Data 140#, 30"

Elevation / Depth (ft.)	Bulk	Sample Type	Blow Counts	Moisture Content (% dry weight)	Dry Density (pcf)	USCS	Soil / Lithology	Description	Remarks
0								ASPHALTIC CONCRETE (8½")	S:M:C
						CL		ALLUVIUM: Yellowish brown silty CLAY (moist, very stiff).	
			18	20.3	98				
790 – 5			45	20.9	103			At 5'; becoming hard, some calcium carbonate veinlets.	
			28	25.5	94			At 7'; becoming very stiff, some calcium carbonate veinlets.	
785 – 10			26	26.1	92				
			4/7/9						
780 – 15			20	94				At 15'; becoming very moist.	
			3/2/3						
						CL		Yellowish brown sandy CLAY (saturated, medium stiff). Hole left open 5 minutes. Groundwater at 18½'. MX80 drilling mud added inside auger after sample at 17½'. Auger kept full.	
775 – 20			14	22.0	104	SC		Brown clayey fine SAND (saturated, medium dense).	@20' 52:26:22
			5/8/9			CL		Yellowish brown sandy CLAY (saturated, very stiff).	
770 – 25			16	24.4	105				
			4/5/ 11						
						SC		Yellowish brown clayey fine SAND (saturated, medium dense).	
765 – 30			28	25.6	99	CL		Yellowish brown sandy CLAY (saturated, very stiff).	
						CL		Pale yellow silty CLAY (saturated, stiff). Some calcium carbonate nodules.	
			5/5/7						
760 – 35			6/6/7						
			6/9/9						
						CL		Gray mottled with yellowish brown to yellowish brown mottled with gray silty CLAY (saturated, very stiff). Some calcium carbonate veinlets.	
755 – 40			7/8/ 11						

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SUBSURFACE LOG

Work Order: 2880-83-3-100

Excavation Number: B-15

Page Number: 2

Elevation / Depth (ft.)	Bulk Sample Type	Blow Counts	Moisture Content (% dry weight)	Dry Density (pcf)	USCS	Soil / Lithology	Description	Remarks
750 / 45		7/9/9						
		8/12/14						
		5/7/11			CL		Yellowish brown sandy CLAY (saturated, very stiff).	
745 / 50					CL		Yellowish brown silty CLAY (saturated, very stiff). Some calcium carbonate veinlets.	
		6/9/12			CL		Yellowish brown sandy CLAY (saturated, very stiff).	
740 / 55							Total Depth 51½' No Caving Observed Groundwater encountered at 18½' Backfilled with cement, MX80 and water mixture. A.C. Cold Patch on top.	
735 / 60								
730 / 65								
725 / 70								
720 / 75								
715 / 80								
710 / 85								

Project: LAUSD - Canoga Park High School

SUBSURFACE LOG

Work Order: 2880-83-3-100

Excavation Number: B-16

Page Number: 1

Date(s) Excavated 12/18/21	Logged By CA	Excavation Location See Geotechnical Map	Approximate Surface Elevation 795.0'±
Excavation Dimension 8" Dia.	Equipment Contractor Choice Drilling	Equipment Type Hollow Stem Auger	Hammer Data 140#, 30"

Elevation / Depth (ft.)	Bulk	Sample Type	Blow Counts	Moisture Content (% dry weight)	Dry Density (pcf)	USCS	Soil / Lithology	Description	Remarks
795 0						CL		ALLUVIUM: Yellowish brown silty CLAY (damp, very stiff).	S:M:C
			29	12.7	112				
790 5			37	20.8	102			At 5'; becoming hard, moist. Some calcium carbonate veinlets.	
			57	23.1	99				
785 10			27	27.0	87				
			3/6/8					At 12½'; becoming stiff.	
780 15			34	22.5	98			At 15'; becoming hard, very moist.	
			4/4/4					At 17½'; becoming stiff.	
775 20			16	30.8	90				
			4/4/4			CL		Dark brown silty CLAY (very moist, medium stiff).	
770 25			27	22.4	99	CL		Yellowish brown sandy CLAY (very moist, very stiff).	
			3/4/5			CL		Yellowish brown silty CLAY with trace fine Sand (saturated, stiff). Hole left open 5 minutes, groundwater at 20½'.	
765 30			27	21.7	103	CL		Yellowish brown silty CLAY with trace gravel and calcium carbonate (saturated, very stiff).	
			5/8/7						
760 35			4/5/5					At 35'; becoming stiff.	
			5/7/9			CL		Yellowish brown silty CLAY with fine Sand (saturated, very stiff).	
755 40			5/7/ 10			CL		Yellowish brown sandy CLAY (saturated, very stiff).	

GORIAN & ASSOCIATES, INC.

Project: LAUSD - Canoga Park High School

SUBSURFACE LOG

Work Order: 2880-83-3-100

Excavation Number: B-16

Elevation / Depth (ft.)	Bulk Sample Type	Blow Counts	Moisture Content (% dry weight)	Dry Density (pcf)	USCS	Soil / Lithology	Description	Remarks
		6/8/18			SM		Yellowish brown silty fine SAND (saturated, medium dense).	@42½' 68:16:16
750 — 45		12/16/22			CL		Yellowish brown sandy CLAY (saturated, hard).	
					SM		Yellowish brown silty fine to coarse SAND with gravel (saturated, dense).	
		13/15/19			SM		Yellowish brown silty fine to medium SAND (saturated, dense).	
745 — 50		18/30/48						
							Total Depth 51½' No Caving Observed Groundwater Encountered at 20½' Backfilled with mixture of cement, MX80, and water.	
740 — 55								
735 — 60								
730 — 65								
725 — 70								
720 — 75								
715 — 80								
710 — 85								

SUMMARY

OF

CONE PENETRATION TEST DATA

Project:

Canoga Park High School
Canoga Park, CA
November 23, 2021

Prepared for:

Mr. Diego Medina
Gorian & Associates, Inc.
3595 Old Conejo Road
Thousand Oaks, CA 91320-2122
Office (805) 375-9262 / Fax (805) 375-9263

Prepared by:



KEHOE TESTING & ENGINEERING
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TABLE OF CONTENTS

1. **INTRODUCTION**
2. **SUMMARY OF FIELD WORK**
3. **FIELD EQUIPMENT & PROCEDURES**
4. **CONE PENETRATION TEST DATA & INTERPRETATION**

APPENDIX

- CPT Plots
- CPT Classification/Soil Behavior Chart
- Summary of Shear Wave Velocities
- CPT Data Files (sent via email)

SUMMARY
OF
CONE PENETRATION TEST DATA

1. INTRODUCTION

This report presents the results of a Cone Penetration Test (CPT) program carried out for the Canoga Park High School project located in Canoga Park, California. The work was performed by Kehoe Testing & Engineering (KTE) on November 23, 2021. The scope of work was performed as directed by Gorian & Associates, Inc. personnel.

2. SUMMARY OF FIELD WORK

The fieldwork consisted of performing CPT soundings at six locations to determine the soil lithology. A summary is provided in **TABLE 2.1**.

LOCATION	DEPTH OF CPT (ft)	COMMENTS/NOTES:
CPT-15	50	
CPT-17	50	
CPT-18	50	
CPT-19	50	
CPT-20	50	
CPT-21	50	

TABLE 2.1 - Summary of CPT Soundings

3. FIELD EQUIPMENT & PROCEDURES

The CPT soundings were carried out by **KTE** using an integrated electronic cone system manufactured by Vertek. The CPT soundings were performed in accordance with ASTM standards (D5778). The cone penetrometers were pushed using a 30-ton CPT rig. The cone used during the program was a 15 cm^2 cone with a cone net area ratio of 0.83. The following parameters were recorded at approximately 2.5 cm depth intervals:

- Cone Resistance (qc)
- Sleeve Friction (fs)
- Dynamic Pore Pressure (u)
- Inclination
- Penetration Speed

At locations CPT-15, CPT-17, CPT-18, CPT-19, CPT-20 & CPT-21, shear wave measurements were obtained at termination depth. The shear wave is generated using an air-actuated hammer, which is located inside the front jack of the CPT rig. The cone has a triaxial geophone, which recorded the shear wave signal generated by the air hammer.

The above parameters were recorded and viewed in real time using a laptop computer. Data is stored at the KTE office for up to 2 years for future analysis and reference. A complete set of baseline readings was taken prior to each sounding to determine temperature shifts and any zero load offsets. Monitoring base line readings ensures that the cone electronics are operating properly.

4. CONE PENETRATION TEST DATA & INTERPRETATION

The Cone Penetration Test data is presented in graphical form in the attached Appendix. These plots were generated using the CPeT-IT program. Penetration depths are referenced to ground surface. The soil behavior type on the CPT plots is derived from the attached CPT SBT plot (Robertson, "Interpretation of Cone Penetration Test…", 2009) and presents major soil lithologic changes. The stratigraphic interpretation is based on relationships between cone resistance (qc), sleeve friction (fs), and penetration pore pressure (u). The friction ratio (Rf), which is sleeve friction divided by cone resistance, is a calculated parameter that is used along with cone resistance to infer soil behavior type. Generally, cohesive soils (clays) have high friction ratios, low cone resistance and generate excess pore water pressures. Cohesionless soils (sands) have lower friction ratios, high cone bearing and generate little (or negative) excess pore water pressures.

The CPT data files have also been provided. These files can be imported in CPeT-IT (software by GeoLogismiki) and other programs to calculate various geotechnical parameters.

It should be noted that it is not always possible to clearly identify a soil type based on qc, fs and u. In these situations, experience, judgement and an assessment of the pore pressure data should be used to infer the soil behavior type.

If you have any questions regarding this information, please do not hesitate to call our office at (714) 901-7270.

Sincerely,

KEHOE TESTING & ENGINEERING

Steven P. Kehoe
President

11/30/21-kk-3437

APPENDIX

Kehoe Testing and Engineering
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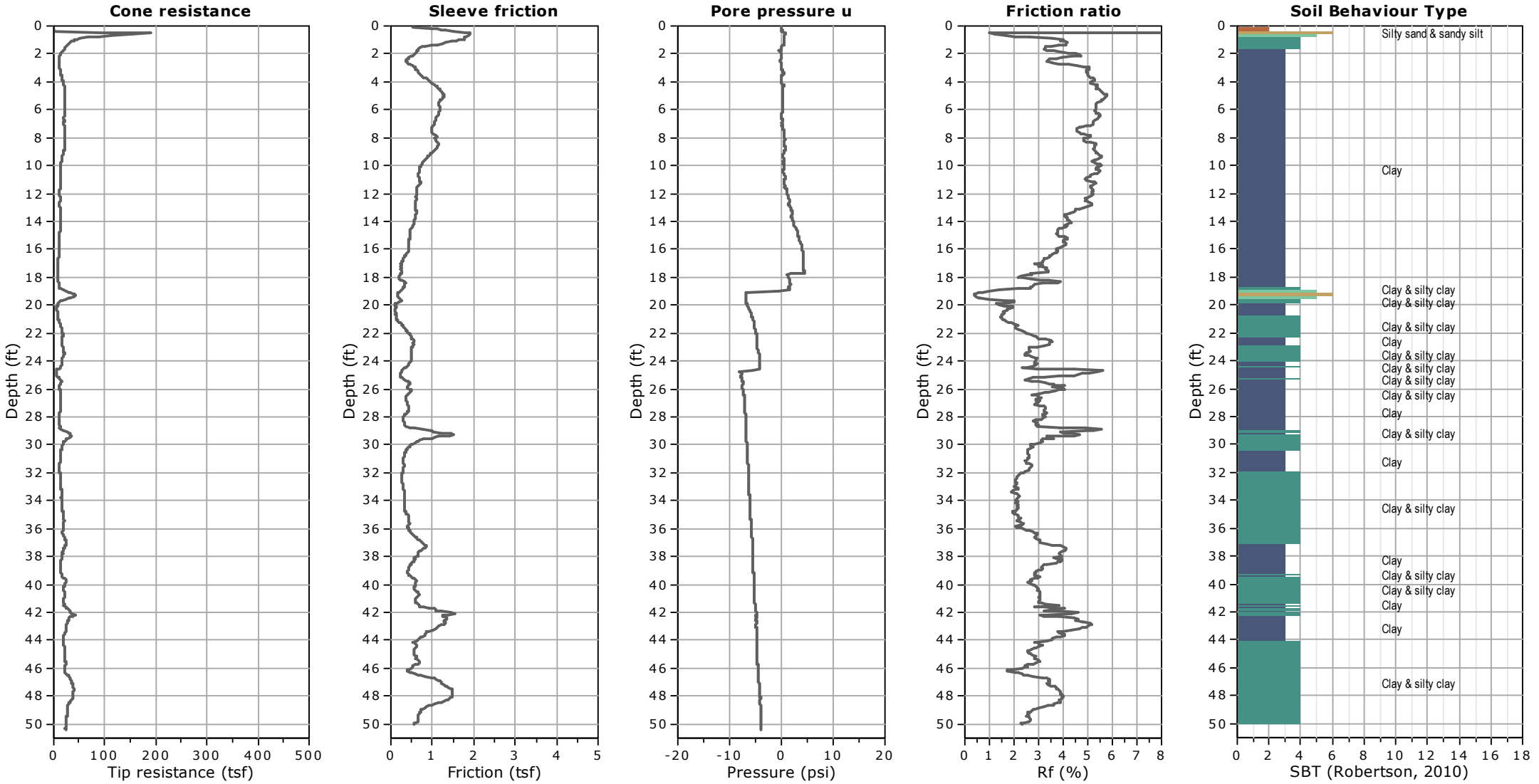
www.kehoetesting.com

Project: **Gorian & Associates / Canoga Park High School**
Location: **Canoga Park, CA**

CPT-15
Total depth: 50.42 ft, Date: 11/23/2021



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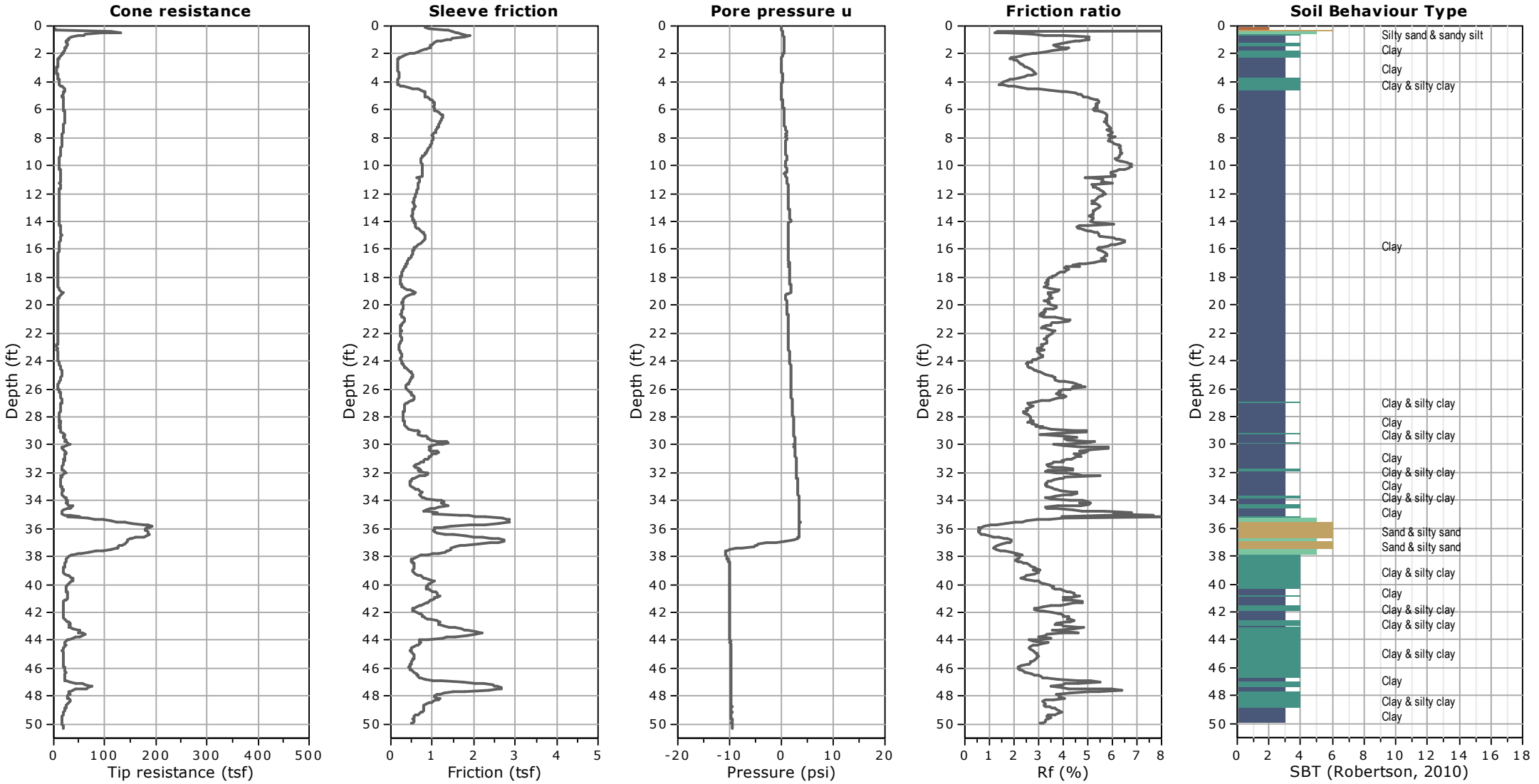
Project: **Gorian & Associates / Canoga Park High School**
Location: **Canoga Park, CA**

CPT-17
Total depth: 50.34 ft, Date: 11/23/2021



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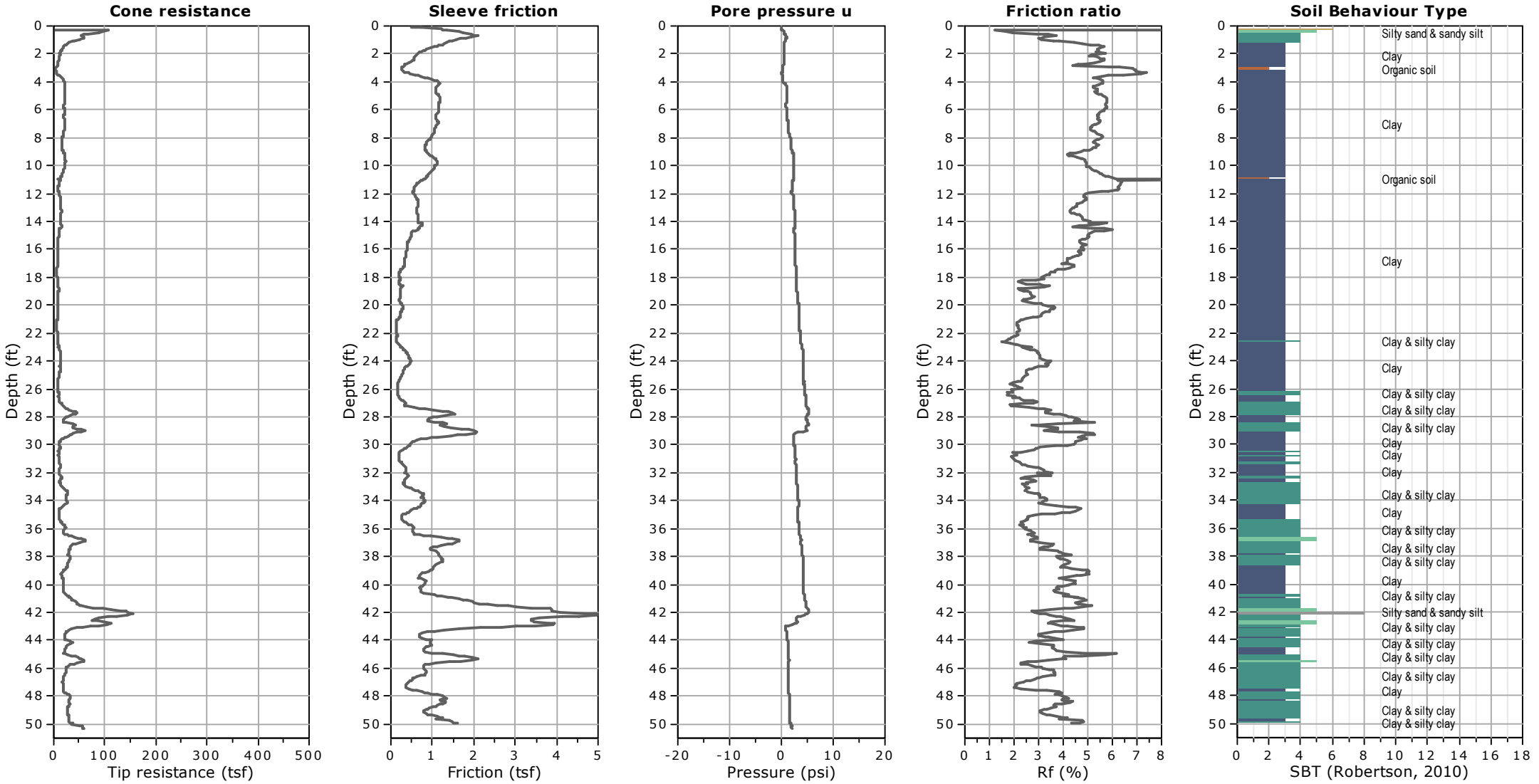
Project: **Gorian & Associates / Canoga Park High School**
Location: **Canoga Park, CA**

CPT-18
Total depth: 50.35 ft, Date: 11/23/2021



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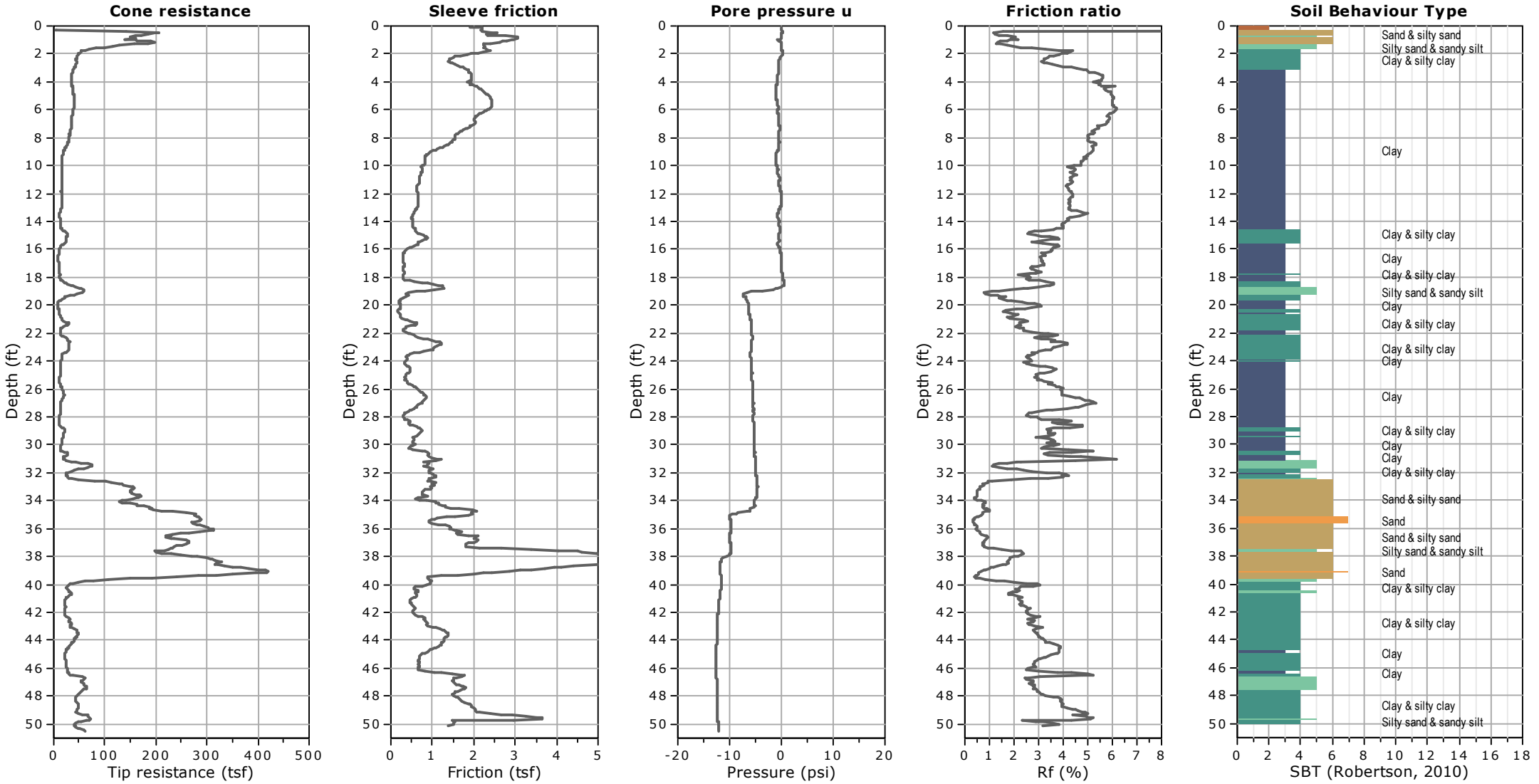
Project: **Gorian & Associates / Canoga Park High School**
Location: **Canoga Park, CA**

CPT-19
Total depth: 50.47 ft, Date: 11/23/2021



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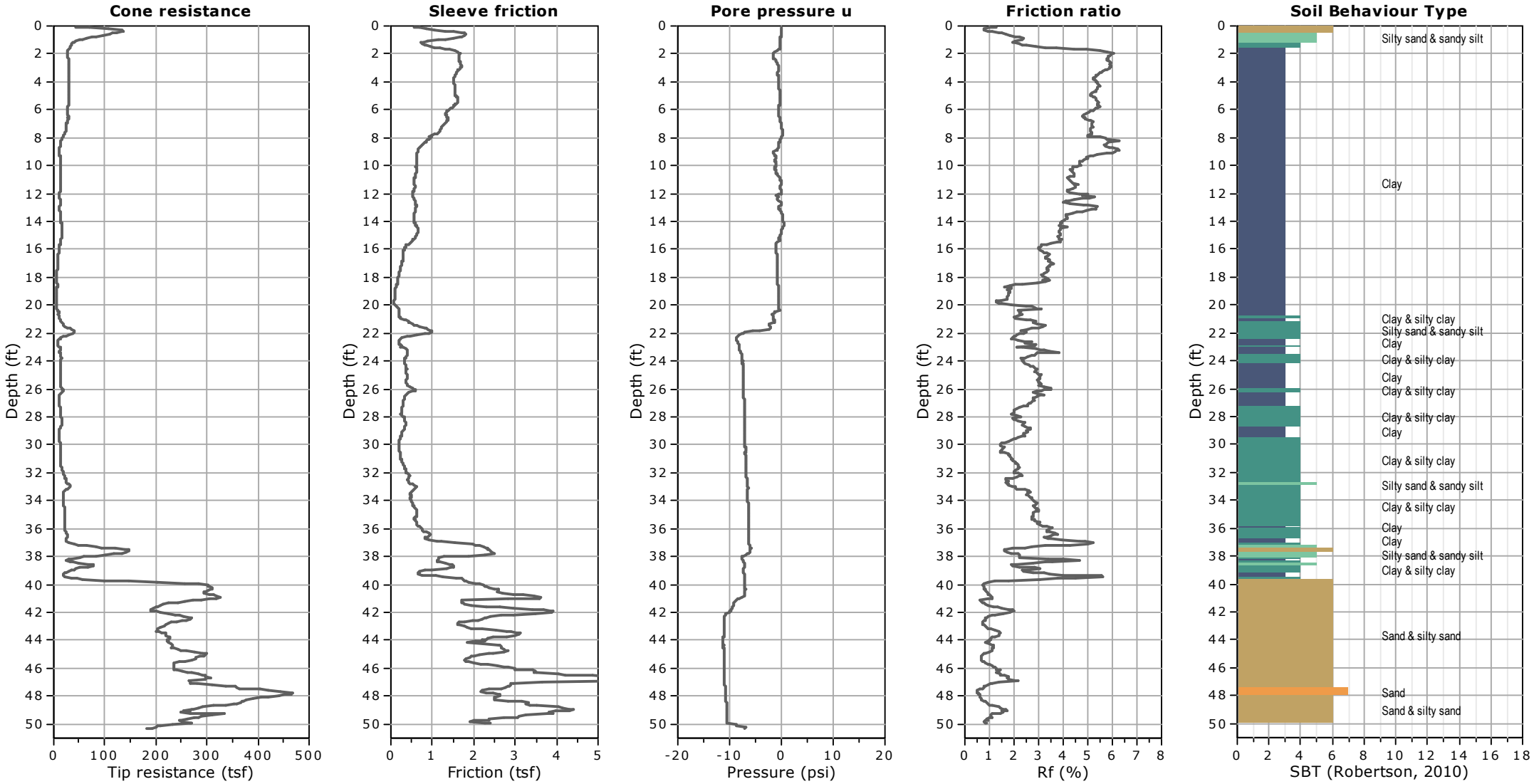
Project: **Gorian & Associates / Canoga Park High School**
Location: **Canoga Park, CA**

CPT-20
Total depth: 50.34 ft, Date: 11/23/2021



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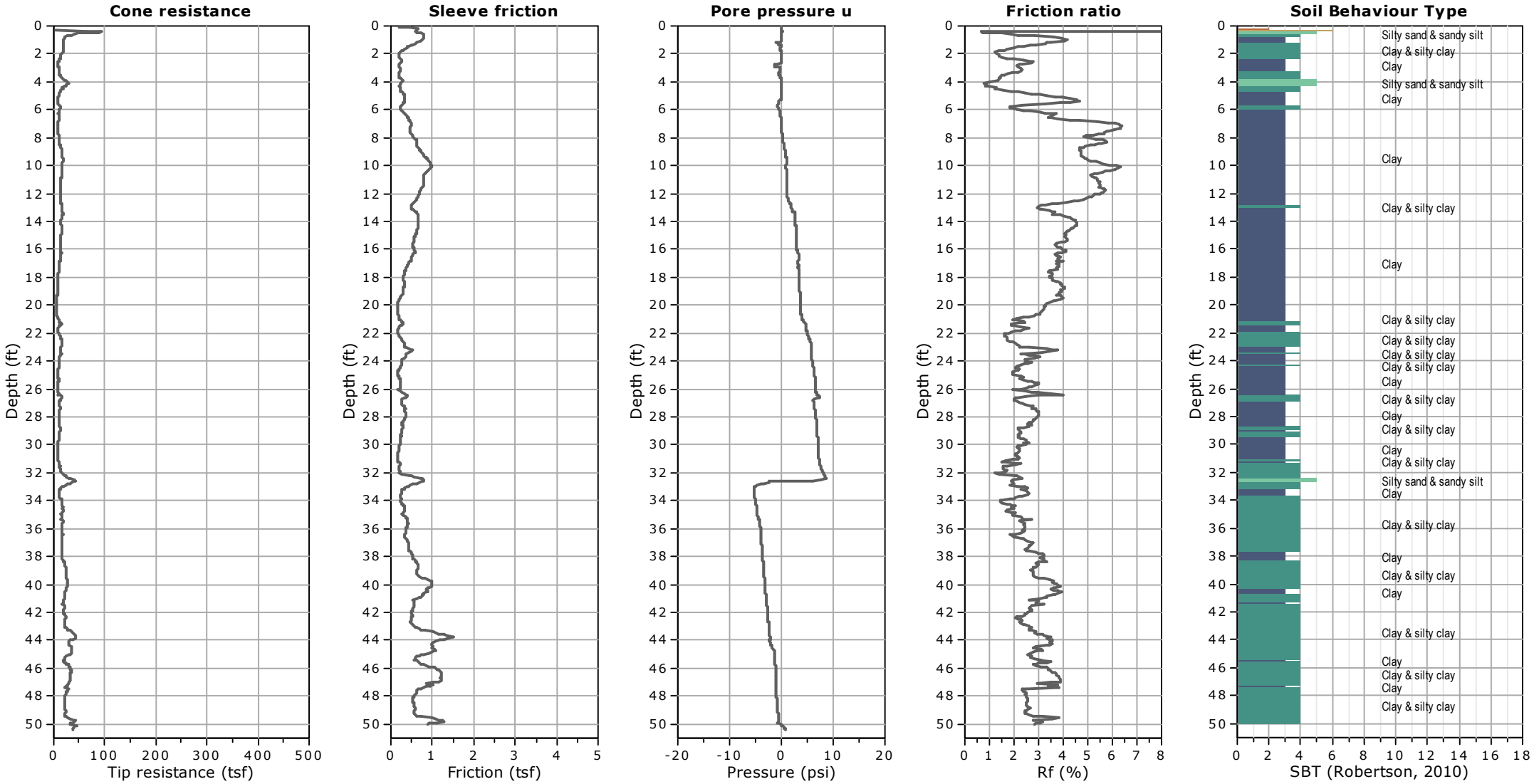
Project: **Gorian & Associates / Canoga Park High School**
Location: **Canoga Park, CA**

CPT-21
Total depth: 50.40 ft, Date: 11/23/2021



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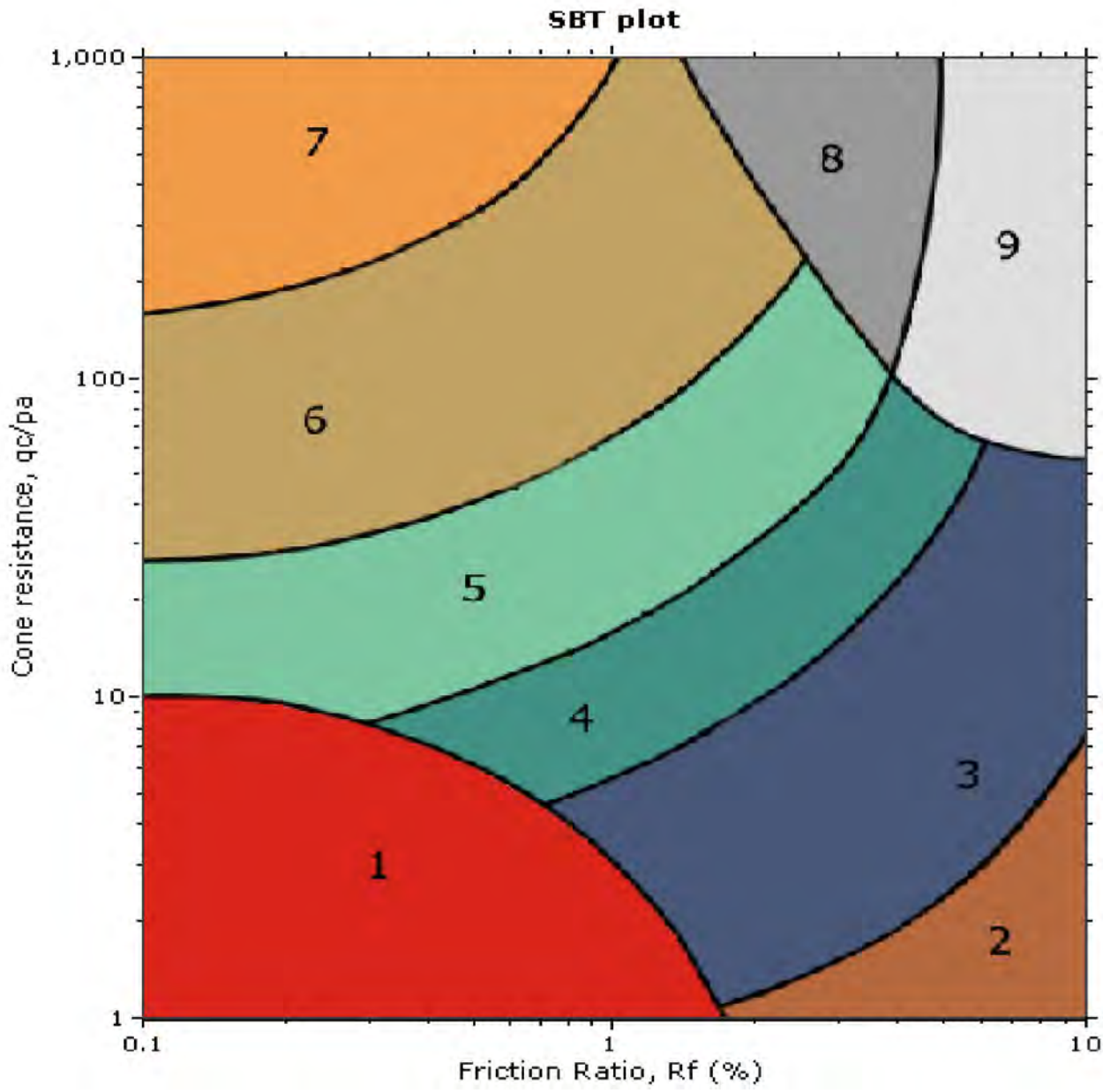


SBT legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty clay
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to clayey sand
9. Very stiff fine grained

Gorian & Associates
Canoga Park High School
Canoga Park, CA

CPT Shear Wave Measurements

Location	Tip Depth (ft)	Geophone Depth (ft)	Travel Distance (ft)	S-Wave Arrival (msec)	S-Wave Velocity from Surface (ft/sec)
CPT-15	50.03	49.03	49.07	67.24	730
CPT-17	50.00	49.00	49.04	70.88	692
CPT-18	50.00	49.00	49.04	70.32	697
CPT-19	50.00	49.00	49.04	64.24	763
CPT-20	50.00	49.00	49.04	66.48	738
CPT-21	50.03	49.03	49.07	69.04	711

Shear Wave Source Offset - 2 ft

S-Wave Velocity from Surface = Travel Distance/S-Wave Arrival
Interval S-Wave Velocity = (Travel Dist2-Travel Dist1)/(Time2-Time1)

Project: LAUSD, Canoga Park High School

SUBSURFACE LOG

Work Order: 2880-83-0-100

Excavation Number: B-1

Page Number: 1

Date(s) Excavated 6/20/19	Logged By CHD	Excavation Location See Location Map	Approximate Surface Elevation 794'±
Excavation Dimension 8" Dia.	Equipment Contractor 2R Drilling	Equipment Type CME 75, Hollow Stem Auger	Hammer Data 140#, Auto 30" Drop

Elevation / Depth (ft.)	Bulk	Sample Type	Blow Counts	Moisture Content (% dry weight)	Dry Density (pcf)	USCS	Soil / Lithology	Description	Remarks
0								ASPHALTIC CONCRETE (5")	
						SC		ARTIFICIAL FILL: Olive clayey fine to coarse SAND (moist, medium dense). Mottled.	
			15	26.2	93	CL		ALLUVIUM: Brown silty CLAY (very moist, very stiff). Slight petroleum odor.	
790									
5			20	27.6	92				
						CL/ CH		Yellowish brown silty CLAY (very moist, very stiff). Common calcium carbonate veinlets.	
			17	24.7	93				
785									
10			13	28.1	88			At 10'; becoming stiff.	
780									
15								At 15'; getting sandier.	
			8	18.4	100	SC		Yellowish brown clayey fine to medium SAND (very moist).	
								Total Depth 16'	
								No Caving Observed	
								No Groundwater Encountered	
775									
20								Cuttings placed in 55 gal drum (1)	
								Boring backfilled with cement slurry. A.C. Cold Patch on top.	
770									
25									
765									
30									
760									
35									
755									
40									

Project: LAUSD, Canoga Park High School

SUBSURFACE LOG

Work Order: 2880-83-0-100

Excavation Number: B-2

Page Number: 1

Date(s) Excavated 6/20/19	Logged By CHD	Excavation Location See Location Map	Approximate Surface Elevation 797'±
Excavation Dimension 8" Dia.	Equipment Contractor 2R Drilling	Equipment Type CME 75, Hollow Stem Auger	Hammer Data 140#, Auto 30" Drop

Elevation / Depth (ft.)	Bulk Sample Type	Blow Counts	Moisture Content (% dry weight)	Dry Density (pcf)	USCS	Soil / Lithology	Description	Remarks
0 / 795		17	12.8	90	CL		ARTIFICIAL FILL: Brown to yellowish brown silty CLAY (damp, very stiff). Some concrete debris. Roots. Metal debris. Modelo like tabs of siltstone. At 2'; some fine sand.	
5 / 790		24	21.5	100	CL		ALLUVIUM: Brown silty CLAY with trace sand (moist, very stiff). At 5'; some calcium carbonate veinlets and masses.	
		16	22.7	94				
10 / 785		19	28.3	89	CL/ CH		Yellowish brown silty CLAY (very moist, very stiff). Common calcium carbonate veinlets and masses.	
15 / 780		12	23.7	96			At 15'; becoming stiff. No calcium carbonate.	
20 / 775		6	--	--			At 19'; groundwater. Drilled to 20'; knock out plug wet. Waited 5 minutes, groundwater level recorded. Total Depth 21' No Caving Observed Groundwater at 19' Cuttings placed in 55 gal drum (1) Boring backfilled with cement slurry.	
25 / 770								
30 / 765								
35 / 760								
40								

Project: LAUSD, Canoga Park High School

SUBSURFACE LOG

Work Order: 2880-83-0-100

Excavation Number: B-3

Page Number: 1

Date(s) Excavated 6/20/19	Logged By CHD	Excavation Location See Location Map	Approximate Surface Elevation 796'±
Excavation Dimension 8" Dia.	Equipment Contractor 2R Drilling	Equipment Type CME 75, Hollow Stem Auger	Hammer Data 140#, Auto 30" Drop

Elevation / Depth (ft.)	Bulk	Sample Type	Blow Counts	Moisture Content (% dry weight)	Dry Density (pcf)	USCS	Soil / Lithology	Description	Remarks
0 / 795								ASPHALTIC CONCRETE (3½")	
			9	16.3	99	CL/ SC		ARTIFICIAL FILL: Brown to yellowish brown silty CLAY with fine to medium gravel (very moist, stiff).	
						CL		ALLUVIUM: Brown silty CLAY (very moist, very stiff).	
5 / 790			15	25.2	95			At 5'; common calcium carbonate veinlets /masses. Becoming very stiff.	
			21	25.2	94				
						CL/ CH		Yellowish brown silty CLAY (very moist, very stiff). Commom calcium carbonate veinlets and masses.	
10 / 785			17	26.9	90				
15 / 780			15	23.8	96				
								Total Depth 16' No Caving Observed No Groundwater Encountered	
								Cuttings placed in 55 gal drum (1)	
20 / 775								Boring backfilled with cement slurry. A.C. Cold Patch on top.	
25 / 770									
30 / 765									
35 / 760									
40 / 755									

Project: LAUSD, Canoga Park High School

SUBSURFACE LOG

Work Order: 2880-83-0-100

Excavation Number: B-4

Page Number: 1

Date(s) Excavated 6/20/19	Logged By CHD	Excavation Location See Location Map	Approximate Surface Elevation 796'±
Excavation Dimension 8" Dia.	Equipment Contractor 2R Drilling	Equipment Type CME 75, Hollow Stem Auger	Hammer Data 140#, Auto 30" Drop

Elevation / Depth (ft.)	Bulk Sample Type	Blow Counts	Moisture Content (% dry weight)	Dry Density (pcf)	USCS	Description	Remarks
795 / 0					SC	ASPHALTIC CONCRETE (3")	
		9	7.4	95		ARTIFICIAL FILL: Yellowish brown clayey fine to coarse SAND with fine to medium gravel (moist). Some fine sand.	
			19.9	85	CL	ALLUVIUM: Brown silty CLAY (moist, stiff).	
790 / 5		4/7/9				At 5'; becoming very stiff.	
					CH	Yellowish brown silty CLAY (very moist, very stiff).	
		26	24.3	94		At 8'; common calcium carbonate veinlets.	
785 / 10		4/7/9					
		20	21.3	100		At 13'; trace fine sand.	
780 / 15		3/5/5				At 15'; becoming stiff. Below 16'; becoming wet.	
		11	29.4	92		After sample at 18'; drilling mud (Quik- Gel) added inside auger. Kept full. At 19'; groundwater.	
775 / 20		1/2/2			CL/ ML	Brown sandy SILT to sandy CLAY (saturated, soft).	@20' Sand= 44% Silt= 35% Clay= 21%
					SC	Yellowish brown clayey fine to coarse SAND, some fine gravel (saturated).	
		8	--	--			
770 / 25		3/3/4			CL/ CH	Brown to yellowish brown silty CLAY (saturated, medium stiff). Common calcium carbonate.	
		22	24.2	102		At 28'; becoming very stiff.	
					SM	Yellowish brown silty fine SAND (saturated, medium dense).	
765 / 30		2/3/5			SC	Yellowish brown clayey silty fine SAND (saturated). Iron and manganese oxide staining.	@30' Sand= 53% Silt= 32% Clay= 15%
					CH	Pale yellow silty CLAY with abundant white calcium carbonate (moist to saturated, very stiff). @31' highly calichified @33' less calichified	
		26	20.1	109			
760 / 35		3/5/6			CL/ CH	Yellowish brown silty CLAY, trace fine sand (saturated, stiff). Some calcium carbonate.	
		22	20.2	107	SC/ CL	Yellowish brown to gray clayey fine SAND to sandy CLAY (saturated, medium dense to dense).	
755 / 40		8/11/ 16			ML	Yellowish brown clayey sandy SILT (saturated, medium dense).	@40' Sand= 49%

Project: LAUSD, Canoga Park High School

SUBSURFACE LOG

Work Order: 2880-83-0-100

Excavation Number: B-4

Elevation / Depth (ft.)	Bulk Sample Type	Blow Counts	Moisture Content (% dry weight)	Dry Density (pcf)	USCS	Soil / Lithology	Description	Remarks
								Silt= 33% Clay= 18%
		30	23.5	98				
					SM		Yellowish brown silty fine to coarse SAND with some fine to medium gravel (saturated, dense).	
45		13/ 26/ 24+					Below 45'; becoming very dense.	
750								
		30+/ 6"	18.6	104				
50		11/8/ 17					At 50'; becoming medium dense.	
745								
							Total Depth 51½' No Caving Observed Groundwater at 19' Cuttings placed in 55 gal drums (3)	
55							Boring backfilled with cement slurry . A.C. Cold Patch on top.	
740								
60								
735								
65								
730								
70								
725								
75								
720								
80								
715								
85								
710								

APPENDIX B

LABORATORY TESTING

General

Laboratory test results on selected samples are presented below. Test were performed to evaluate the physical and engineering properties of the encountered earth materials, including in-situ moisture and dry density, compaction characteristics, expansion potential, consolidation characteristics, shear strength parameters, grain size distribution, Atterberg limits. R-value testing was performed under subcontract by a materials testing laboratory. Soil corrosivity testing was performed under subcontract by a corrosion engineer. Laboratory testing from previous explorations (borings B-1 through B-4) at the site is included herein.

Field Density and Moisture Tests

In-situ dry density and moisture content were determined from the relatively undisturbed drive samples obtained during exploratory operations. The test results and a detailed description of the earth materials encountered are shown on the attached Logs of Subsurface Data, Appendix A.

Soil Expansion Test

Expansion Index tests were performed per ASTM D4829 on selected bulk samples of the encountered materials. The results are as follows:

Sample	Expansion Index	Expansion Index Range	Expansion Potential
B-1 @ 2’	83	51 - 90	Medium
B-4 @ 4’	106	91 - 130	High
B-12 @ 3’	96	91 - 130	High
B-13 @ 3’	117	91 - 130	High
B-16 @ 1’	43	21 - 50	Low

Optimum Moisture-Maximum Density Curve

Maximum density/optimum moisture tests (compaction characteristics) were performed per ASTM D1557 on selected bulk samples of the encountered materials. The results are as follows:

Sample	Visual Soil Classification	Maximum Dry Density (pcf)	Optimum Moisture Content (%)
B-1 @ 2’	Brown silty clay	117.9	13.3
B-2 @ 5’	Brown silty clay w/ calcium carbonate	113.7	15.7
B-12 @ 5’	Dark yellow brown silty clay	108.3	16.8
B-16 @ 5’	Yellow brown silty clay	113.7	14.4

Direct Shear Tests

Strain controlled direct shear testing was performed (currently and previous evaluations) on six relatively undisturbed samples and four remolded sample sets. The sample sets were saturated prior to shearing under axial loads ranging from 920 to 3,680 psf. The shear strength results are presented as graphic summaries.

Load Consolidation Testing

Load consolidation tests were conducted on nine relatively undisturbed drive samples (current and prior evaluation). Test loads were added in increments to a maximum of 8,000 psf. Water was added at the approximate overburden pressure to study the effect of moisture infiltration on potential consolidation behavior. The consolidation results are presented on the attached figures as graphic summaries.

Atterberg Limit Tests

Atterberg Limit tests were performed on a representative sample of the fine-grained material onsite.

Sample	Liquid Limit	Plasticity Index	Soil Classification
B-4 @ 10'	57	35	CH
B-15 @ 17½'	36	16	CL

Grain Size Distribution

Grain size distribution analyses were performed on several bulk samples. The grain size was evaluated using a hydrometer and 3/8", #4 and #10 sieves. The percentage sand, percentage silt, and percentage clay were evaluated. A table summarizing the results is presented below.

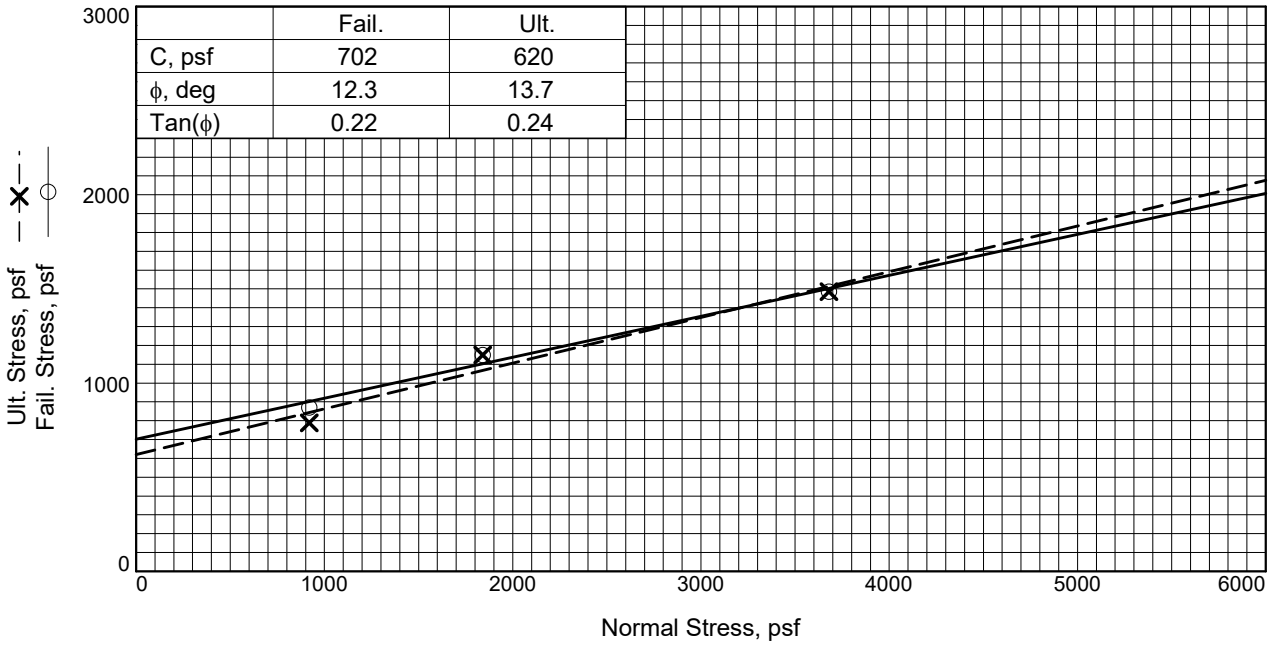
HYDROMETER RESULTS							
Boring	Depth (feet)	% Gravel	% Sand	% Silt	% Clay	% Fines (silt and clay)	Classification
B-4	20	2	42	35	21	56	CL
B-4	30	1	52	32	15	47	SC
B-4	40	--	49	33	18	51	SC/CL
B-11	3	--	33	35	32	67	CL
B-12	12½	--	27	34	39	73	CL
B-13	2	--	13	41	46	87	CL
B-14	3	--	28	38	34	72	ML/CL
B-15	20	--	52	26	22	48	SC/CL
B-16	42½	--	68	16	16	32	SM/SC

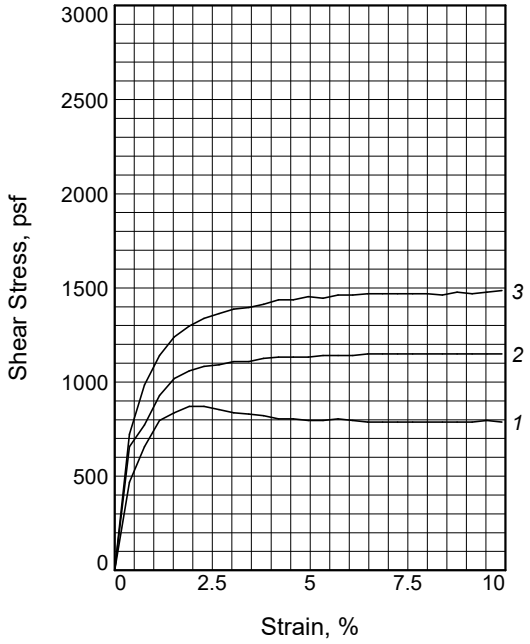
R-Value Determination

An R-Value determination was conducted by a subcontractor on a composite of the soils encountered in the proposed pavement area. The test was performed in general accordance with the California State Test Method No. 301-F. An R-Value of less than 5 is indicated. The test results are attached.

Corrosion Testing

Five soil samples from the current evaluation were sent under separate contract to be tested for corrosive properties. The test results and report from the Corrosion Engineer are presented in Appendix B-1.





Sample No.		1	2	3
Initial	Water Content, %	N/A	N/A	N/A
	Dry Density, pcf	N/A	N/A	N/A
	Saturation, %	N/A	N/A	N/A
	Void Ratio	N/A	N/A	N/A
	Diameter, in.	2.63	2.63	2.63
	Height, in.	1.00	1.00	1.00
At Test	Water Content, %	33.3	33.3	33.3
	Dry Density, pcf			
	Saturation, %			
	Void Ratio			
	Diameter, in.			
	Height, in.			
Normal Stress, psf		920	1840	3680
Fail. Stress, psf		870	1150	1486
Strain, %		2.3	9.9	9.9
Ult. Stress, psf		788	1150	1486
Strain, %		9.9	9.9	9.9
Strain rate, in./min.		0.020	0.020	0.020

Sample Type: Remolded to 90%
Description: Brown silty CLAY

Specific Gravity=
Remarks: 12/14/21

Client: LAUSD

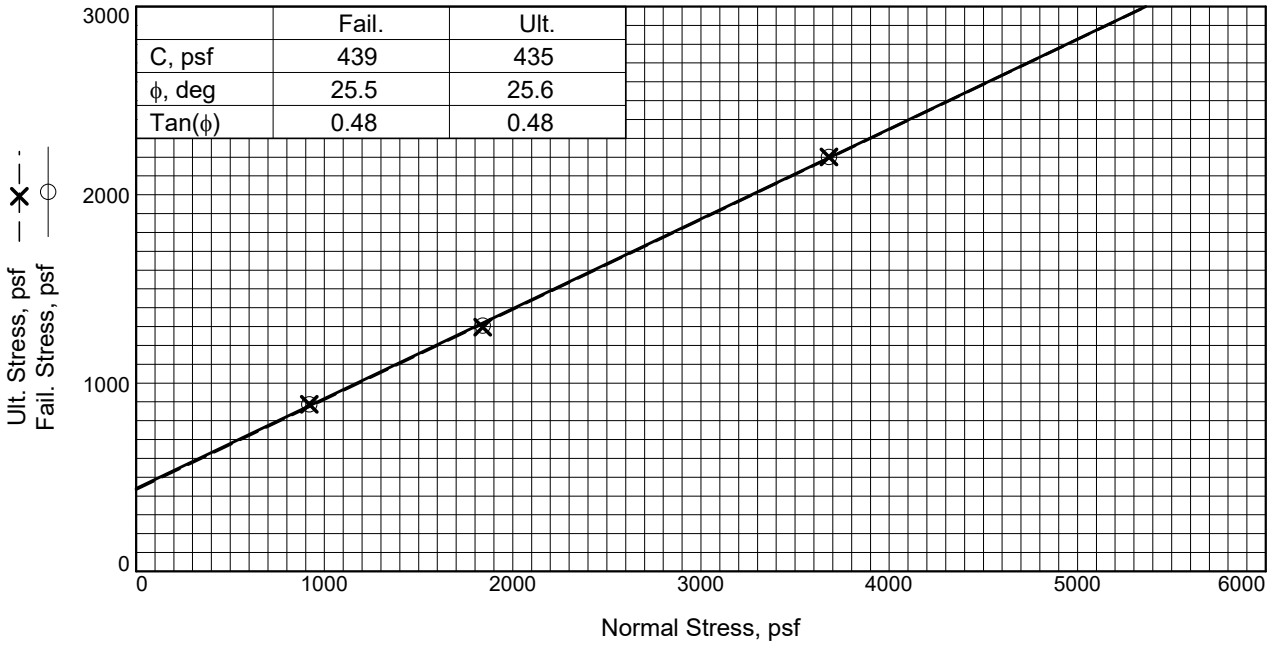
Project: LAUSD - Canoga Park High School

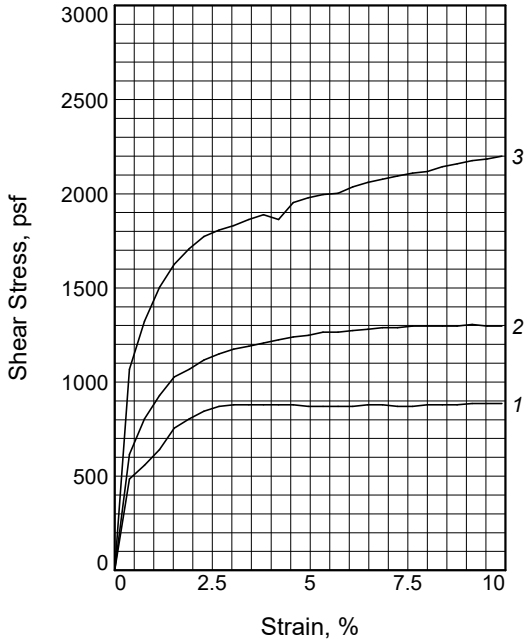
Location: B-12
Depth: 5'
Proj. No.: 2880-83-3-100 **Date Sampled:** 12/4/2021

DIRECT SHEAR TEST REPORT
Gorian & Associates
Thousand Oaks, CA

Figure 1

Tested By: CD





Sample No.		1	2	3
Initial	Water Content, %	N/A	N/A	N/A
	Dry Density, pcf	N/A	N/A	N/A
	Saturation, %	N/A	N/A	N/A
	Void Ratio	N/A	N/A	N/A
	Diameter, in.	2.63	2.63	2.63
	Height, in.	1.00	1.00	1.00
At Test	Water Content, %	24.2	24.2	24.2
	Dry Density, pcf			
	Saturation, %			
	Void Ratio			
	Diameter, in.			
	Height, in.			
Normal Stress, psf		920	1840	3680
Fail. Stress, psf		887	1306	2201
Strain, %		9.9	9.1	9.9
Ult. Stress, psf		887	1297	2201
Strain, %		9.9	9.9	9.9
Strain rate, in./min.		0.020	0.020	0.020

Sample Type: Remolded to 90%
Description: Yellowish brown silty CLAY

Specific Gravity=
Remarks: 12/28/21

Client: LAUSD

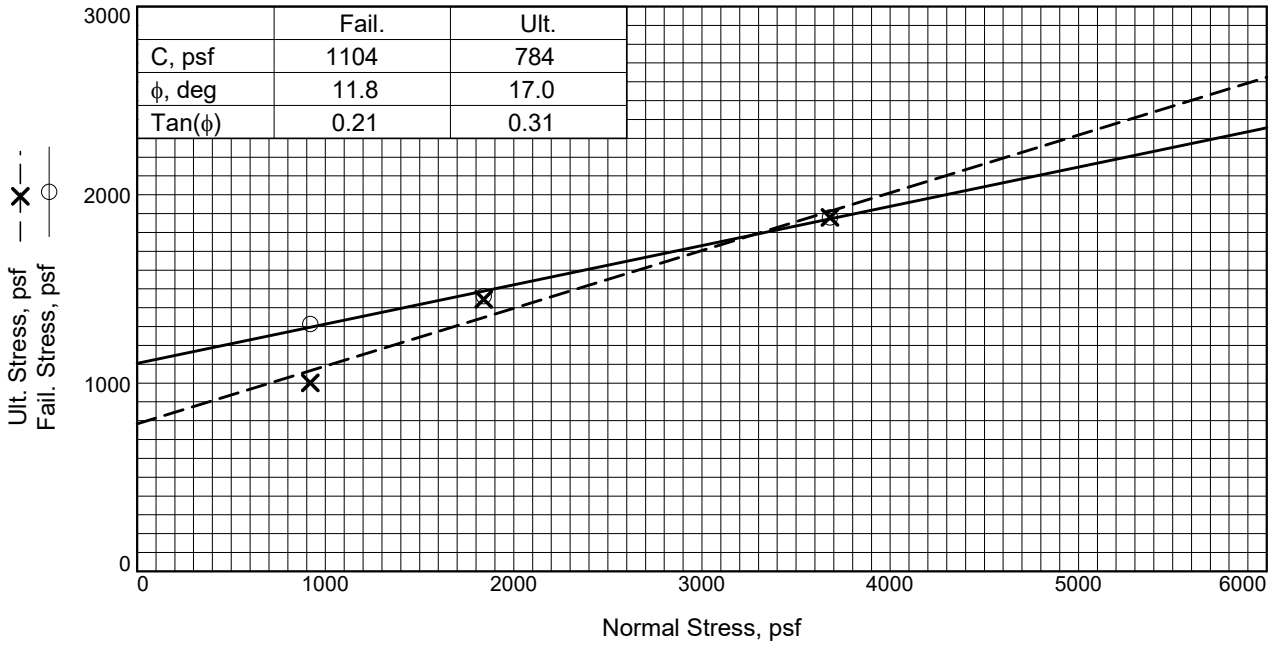
Project: LAUSD - Canoga Park High School

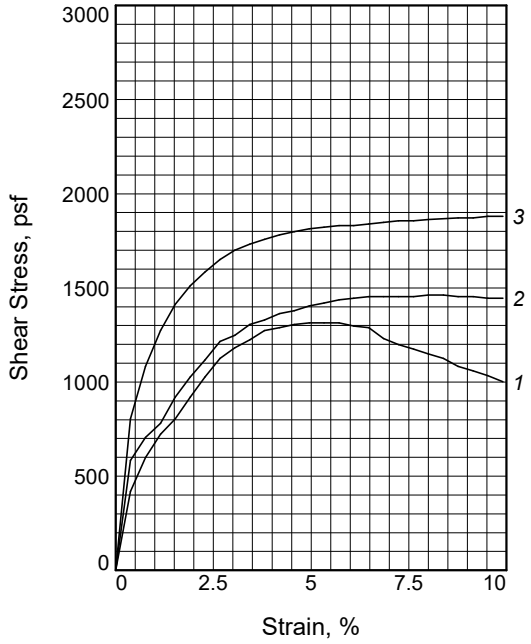
Location: B-16
Depth: 5'
Proj. No.: 2880-83-3-100 **Date Sampled:** 12/18/2021

DIRECT SHEAR TEST REPORT
Gorian & Associates
Thousand Oaks, CA

Figure 2

Tested By: CD





Sample No.		1	2	3
Initial	Water Content, %	N/A	N/A	N/A
	Dry Density, pcf	N/A	N/A	N/A
	Saturation, %	N/A	N/A	N/A
	Void Ratio	N/A	N/A	N/A
	Diameter, in.	2.63	2.63	2.63
	Height, in.	1.00	1.00	1.00
At Test	Water Content, %	32.5	32.5	32.5
	Dry Density, pcf			
	Saturation, %			
	Void Ratio			
	Diameter, in.			
	Height, in.			
Normal Stress, psf		920	1840	3680
Fail. Stress, psf		1314	1462	1880
Strain, %		5.7	8.4	9.9
Ult. Stress, psf		1002	1445	1880
Strain, %		9.9	9.9	9.9
Strain rate, in./min.		0.020	0.020	0.020

Sample Type: Relatively Undisturbed
Description: Yellowish brown silty CLAY

Specific Gravity=
Remarks: 12/17/21

Client: LAUSD

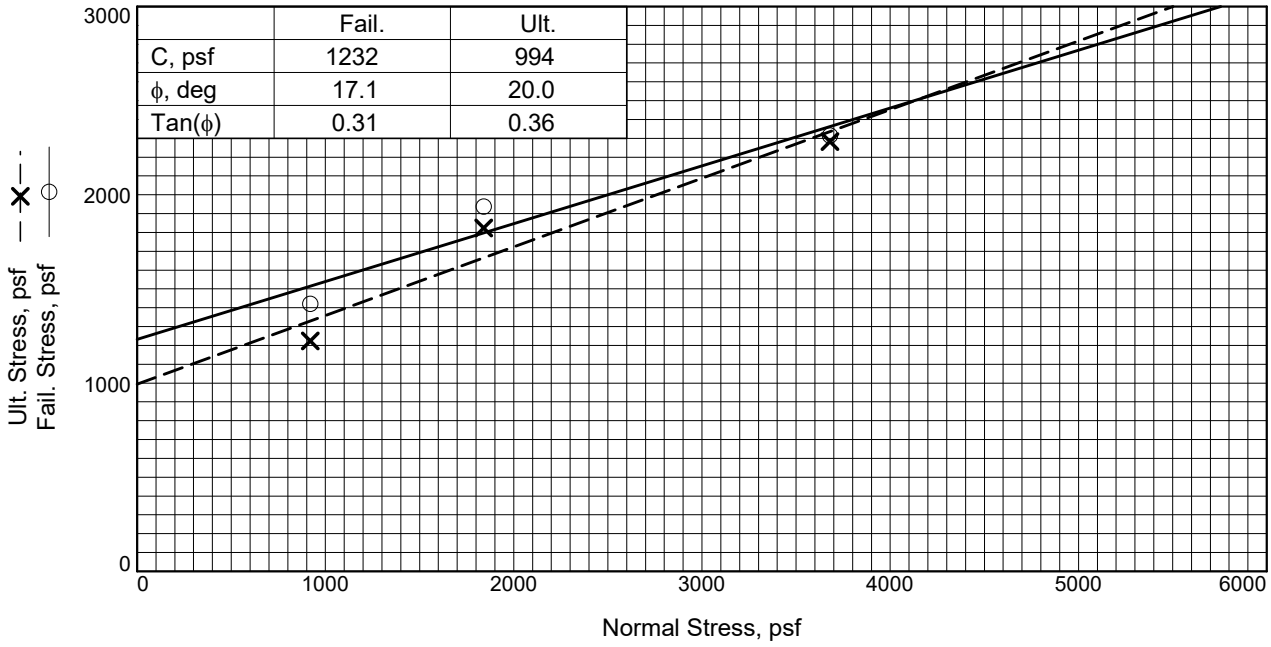
Project: LAUSD - Canoga Park High School

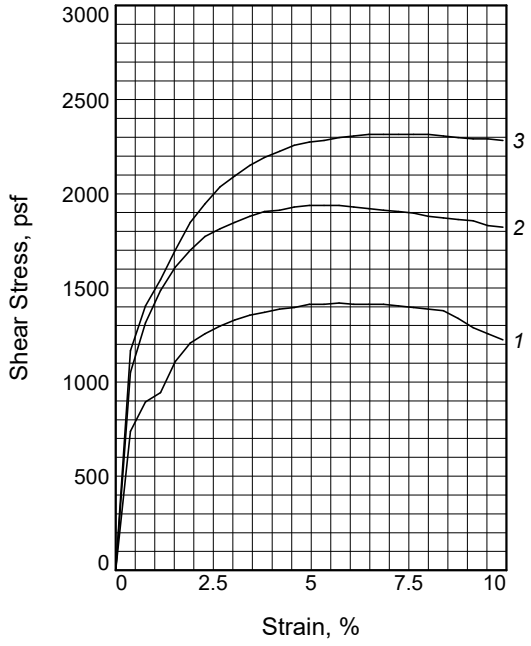
Location: B-11
Depth: 7'
Proj. No.: 2880-83-3-100 **Date Sampled:** 12/11/2021

DIRECT SHEAR TEST REPORT
Gorian & Associates
Thousand Oaks, CA

Figure 3

Tested By: CA





Sample No.		1	2	3
Initial	Water Content, %	N/A	N/A	N/A
	Dry Density, pcf	N/A	N/A	N/A
	Saturation, %	N/A	N/A	N/A
	Void Ratio	N/A	N/A	N/A
	Diameter, in.	2.63	2.63	2.63
	Height, in.	1.00	1.00	1.00
At Test	Water Content, %	28.7	28.7	28.7
	Dry Density, pcf			
	Saturation, %			
	Void Ratio			
	Diameter, in.			
	Height, in.			
Normal Stress, psf		920	1840	3680
Fail. Stress, psf		1421	1938	2316
Strain, %		5.7	5.7	8.0
Ult. Stress, psf		1223	1823	2283
Strain, %		9.9	9.9	9.9
Strain rate, in./min.		0.020	0.020	0.020

Sample Type: Relatively Undisturbed
Description: Dark brown silty CLAY

Specific Gravity=
Remarks: 12/27/21

Client: LAUSD

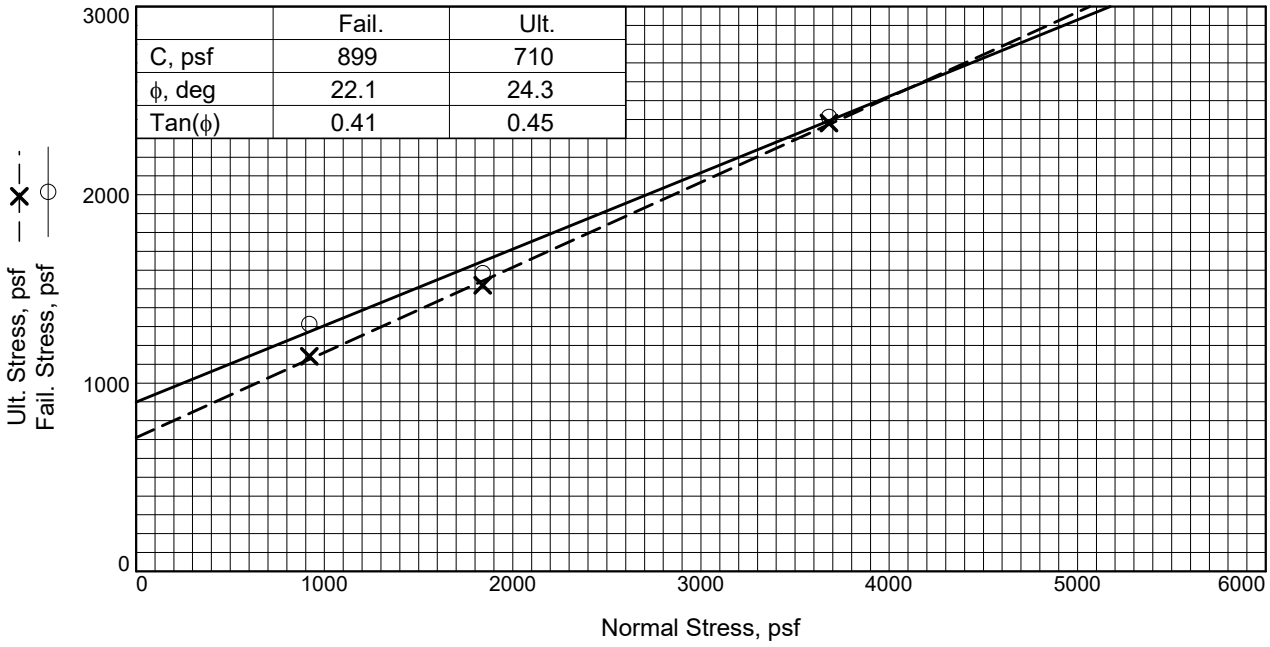
Project: LAUSD - Canoga Park High School

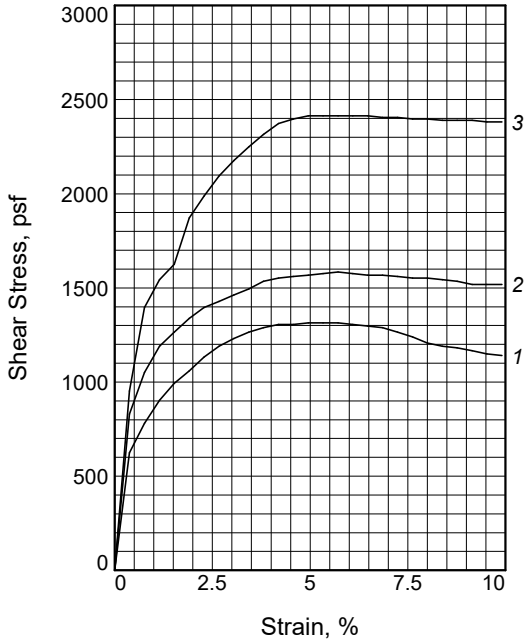
Location: B-14
Depth: 5'
Proj. No.: 2880-83-3-100 **Date Sampled:** 12/18/2021

DIRECT SHEAR TEST REPORT
Gorian & Associates
Thousand Oaks, CA

Figure 4

Tested By: CD





Sample No.		1	2	3
Initial	Water Content, %	N/A	N/A	N/A
	Dry Density, pcf	N/A	N/A	N/A
	Saturation, %	N/A	N/A	N/A
	Void Ratio	N/A	N/A	N/A
	Diameter, in.	2.63	2.63	2.63
	Height, in.	1.00	1.00	1.00
At Test	Water Content, %	29.0	29.0	29.0
	Dry Density, pcf			
	Saturation, %			
	Void Ratio			
	Diameter, in.			
	Height, in.			
Normal Stress, psf		920	1840	3680
Fail. Stress, psf		1314	1585	2414
Strain, %		5.7	5.7	6.5
Ult. Stress, psf		1141	1519	2381
Strain, %		9.9	9.9	9.9
Strain rate, in./min.		0.020	0.020	0.020

Sample Type: Relatively Undisturbed
Description: Yellowish brown silty CLAY

Specific Gravity=
Remarks: 12/9/21

Client: LAUSD

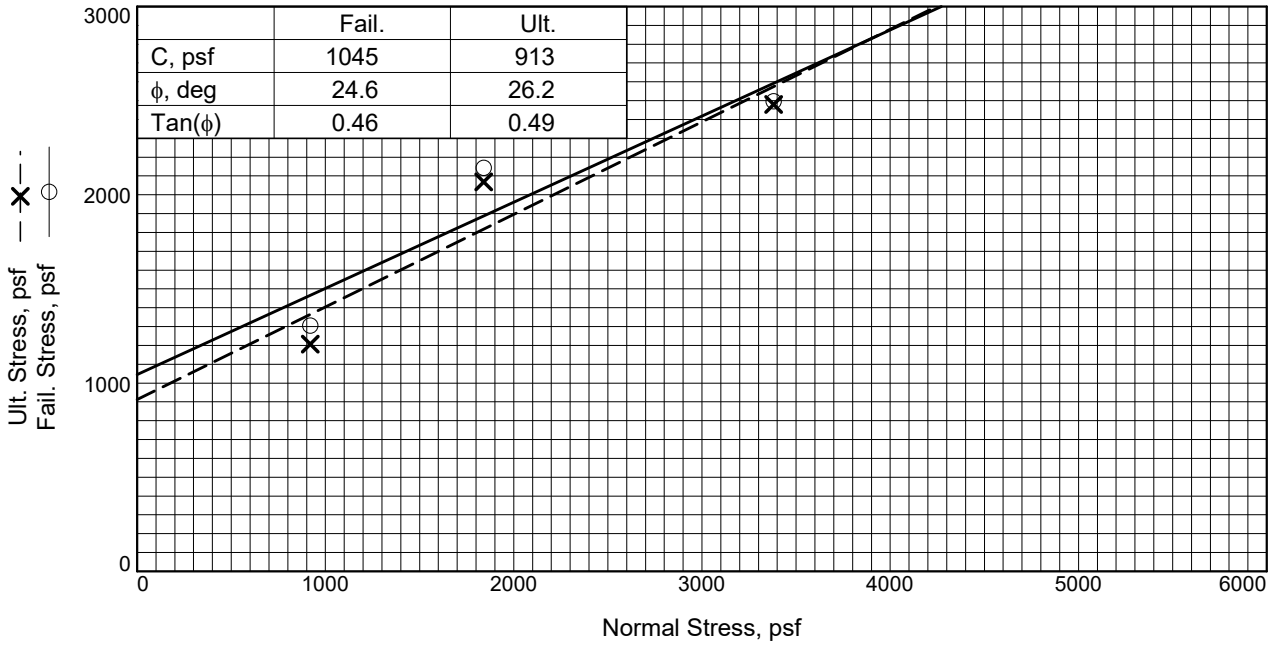
Project: LAUSD - Canoga Park High School

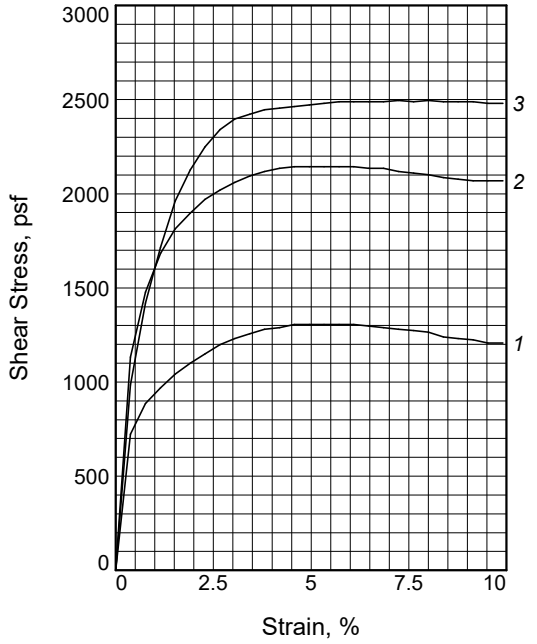
Location: B-15
Depth: 7'
Proj. No.: 2880-83-3-100 **Date Sampled:** 12/4/2021

DIRECT SHEAR TEST REPORT
Gorian & Associates
Thousand Oaks, CA

Figure 5

Tested By: CA





Sample No.		1	2	3
Initial	Water Content, %	N/A	N/A	N/A
	Dry Density, pcf	N/A	N/A	N/A
	Saturation, %	N/A	N/A	N/A
	Void Ratio	N/A	N/A	N/A
	Diameter, in.	2.63	2.63	2.63
	Height, in.	1.00	1.00	1.00
At Test	Water Content, %	29.0	29.0	29.0
	Dry Density, pcf			
	Saturation, %			
	Void Ratio			
	Diameter, in.			
	Height, in.			
Normal Stress, psf		920	1840	3380
Fail. Stress, psf		1306	2143	2496
Strain, %		6.1	6.1	8.0
Ult. Stress, psf		1207	2069	2480
Strain, %		9.9	9.9	9.9
Strain rate, in./min.		0.020	0.020	0.020

Sample Type: Relatively Undisturbed
Description: Yellowish brown silty CLAY

Specific Gravity=
Remarks: 12/28/21

Figure 6

Client: LAUSD

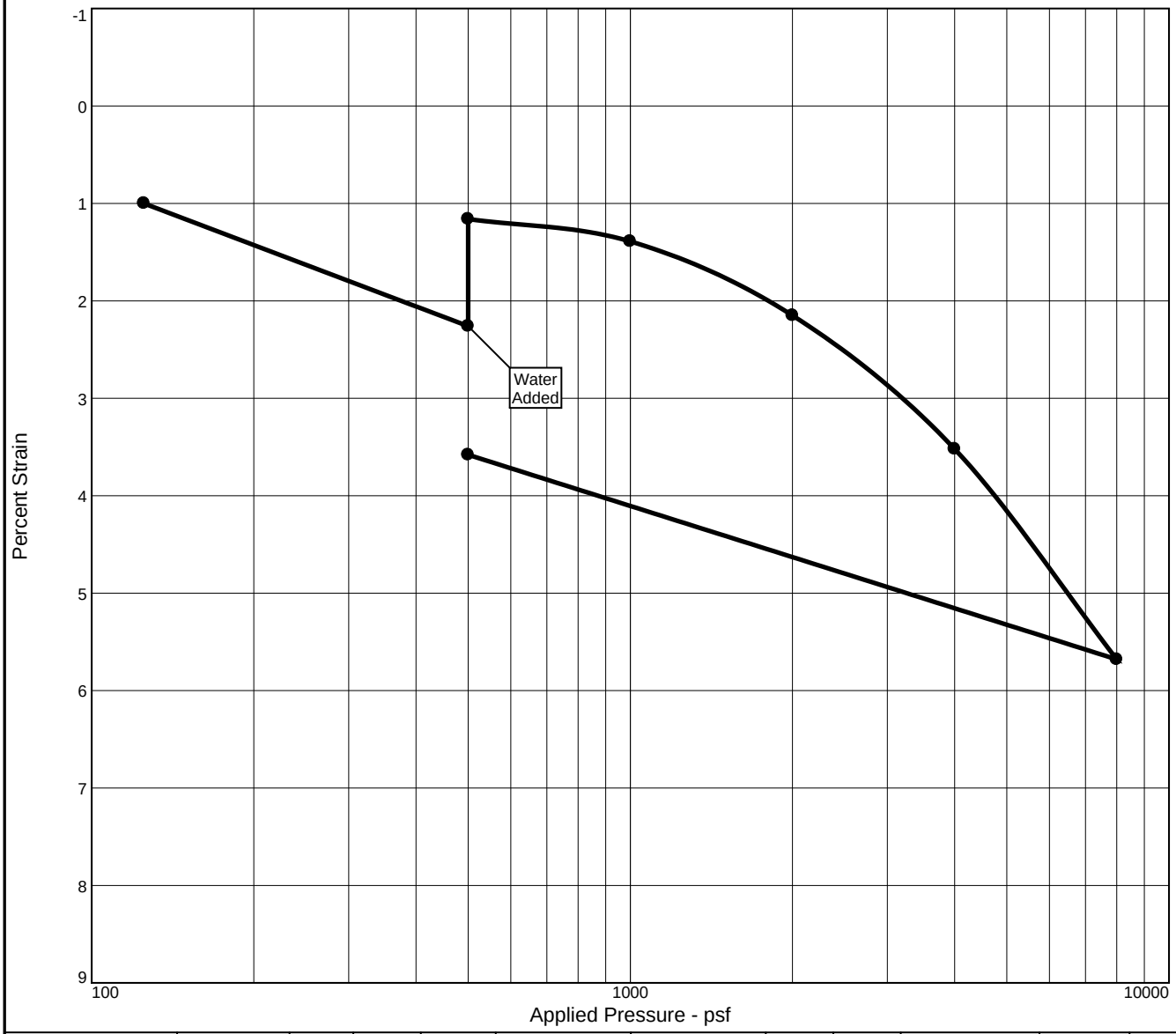
Project: LAUSD - Canoga Park High School

Location: B-16
Depth: 7'
Proj. No.: 2880-83-3-100 **Date Sampled:** 12/18/2021

DIRECT SHEAR TEST REPORT
Gorian & Associates
Thousand Oaks, CA

Tested By: CA

CONSOLIDATION TEST REPORT



Natural		Dry Dens. (pcf)	LL	PI	Sp. Gr.	Overburden (psf)	P_c (psf)	C_c	C_r	Swell Press. (psf)	Swell %	e_o
Sat.	Moist.											
							2269			2145	1.1	

MATERIAL DESCRIPTION	USCS	AASHTO
Silty CLAY		

Project No. 2880-83-3- **Client:** LAUSD

Project: LAUSD - Canoga Park High School

Location: B-11 **Depth:** 12'

Remarks:
12/29/21

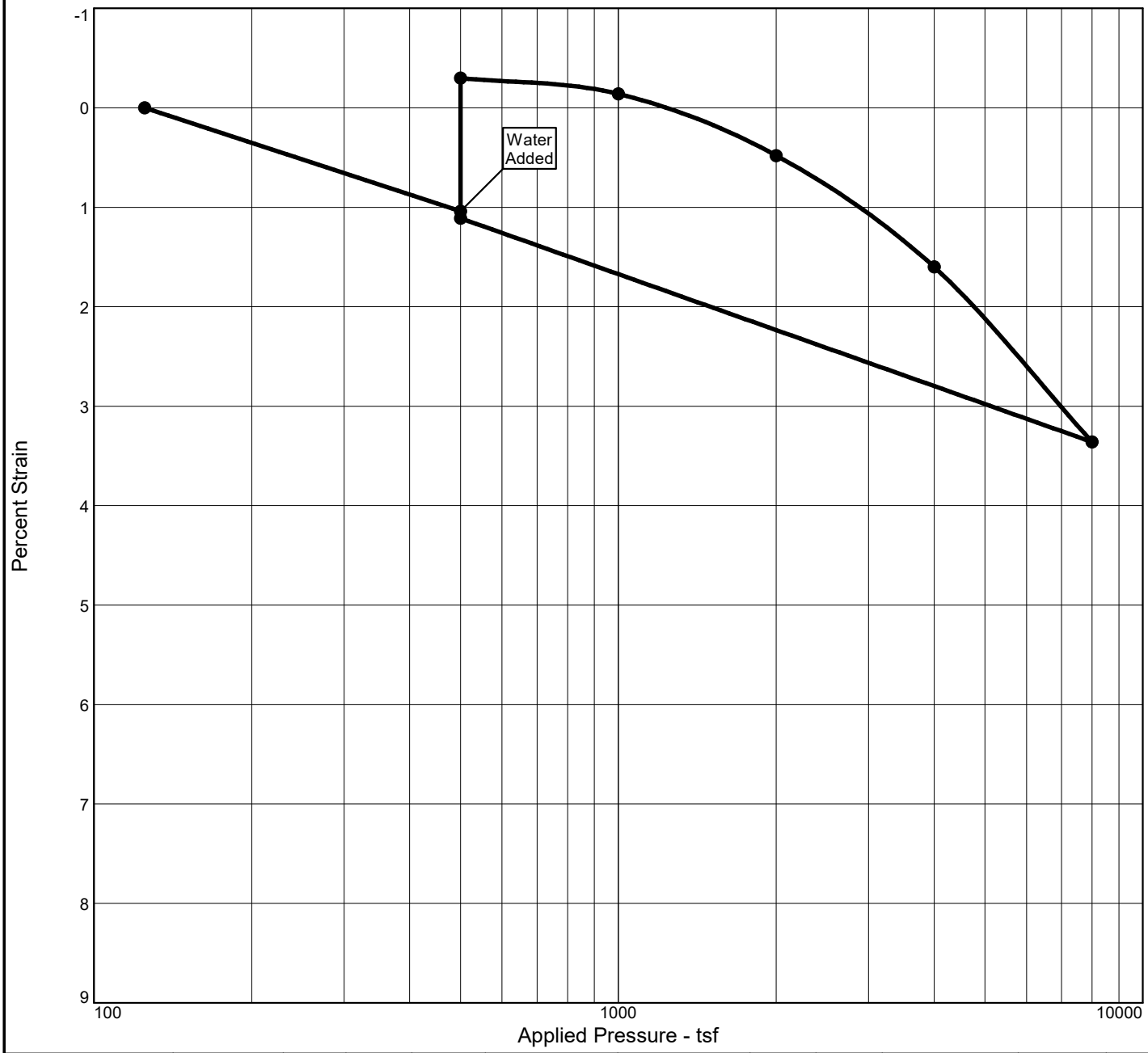
Gorian & Associates

Thousand Oaks, CA

Figure 7

Tested By: CA

CONSOLIDATION TEST REPORT



Natural Sat.	Natural Moist.	Dry Dens. (pcf)	LL	PI	Sp. Gr.	Overburden (tsf)	P_c (tsf)	C_c	C_r	Swell Press. (tsf)	Swell %	e_o
							2256.4			2955.8	1.3	

MATERIAL DESCRIPTION	USCS	AASHTO
Silty CLAY		

Project No. 2880-83-3- **Client:** LAUSD

Project: LAUSD - Canoga Park High School

Location: B-12 **Depth:** 7'

Remarks:
12/17/21

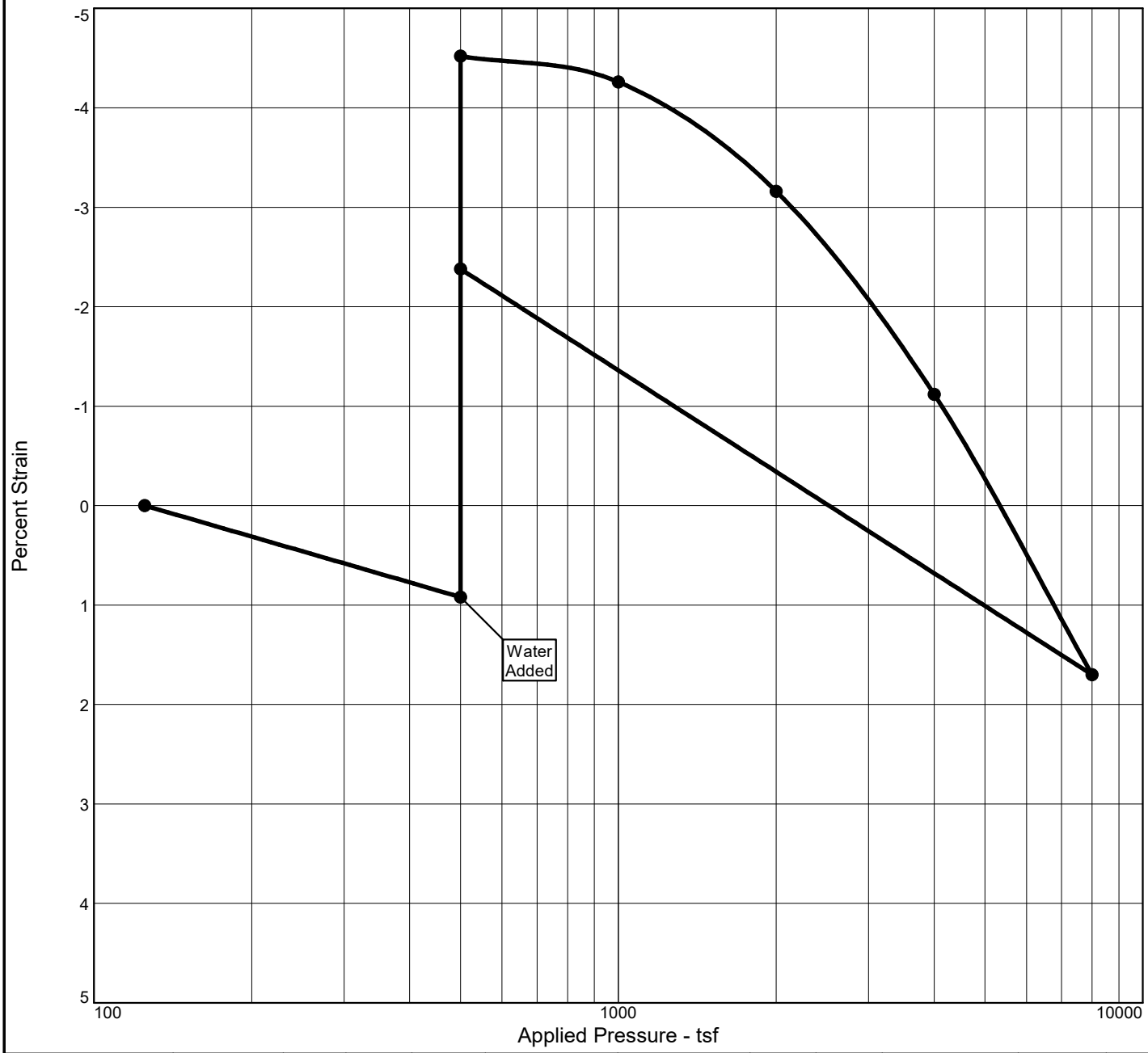
Gorian & Associates

Thousand Oaks, CA

Figure 8

Tested By: CA

CONSOLIDATION TEST REPORT



Natural Sat.	Natural Moist.	Dry Dens. (pcf)	LL	PI	Sp. Gr.	Overburden (tsf)	P_c (tsf)	C_c	C_r	Swell Press. (tsf)	Swell %	e_o
							2040.5			6637.9	5.4	

MATERIAL DESCRIPTION	USCS	AASHTO
Silty CLAY		

Project No. 2880-83-3- **Client:** LAUSD

Project: LAUSD - Canoga Park High School

Location: B-13 **Depth:** 7

Remarks:
1/4/22

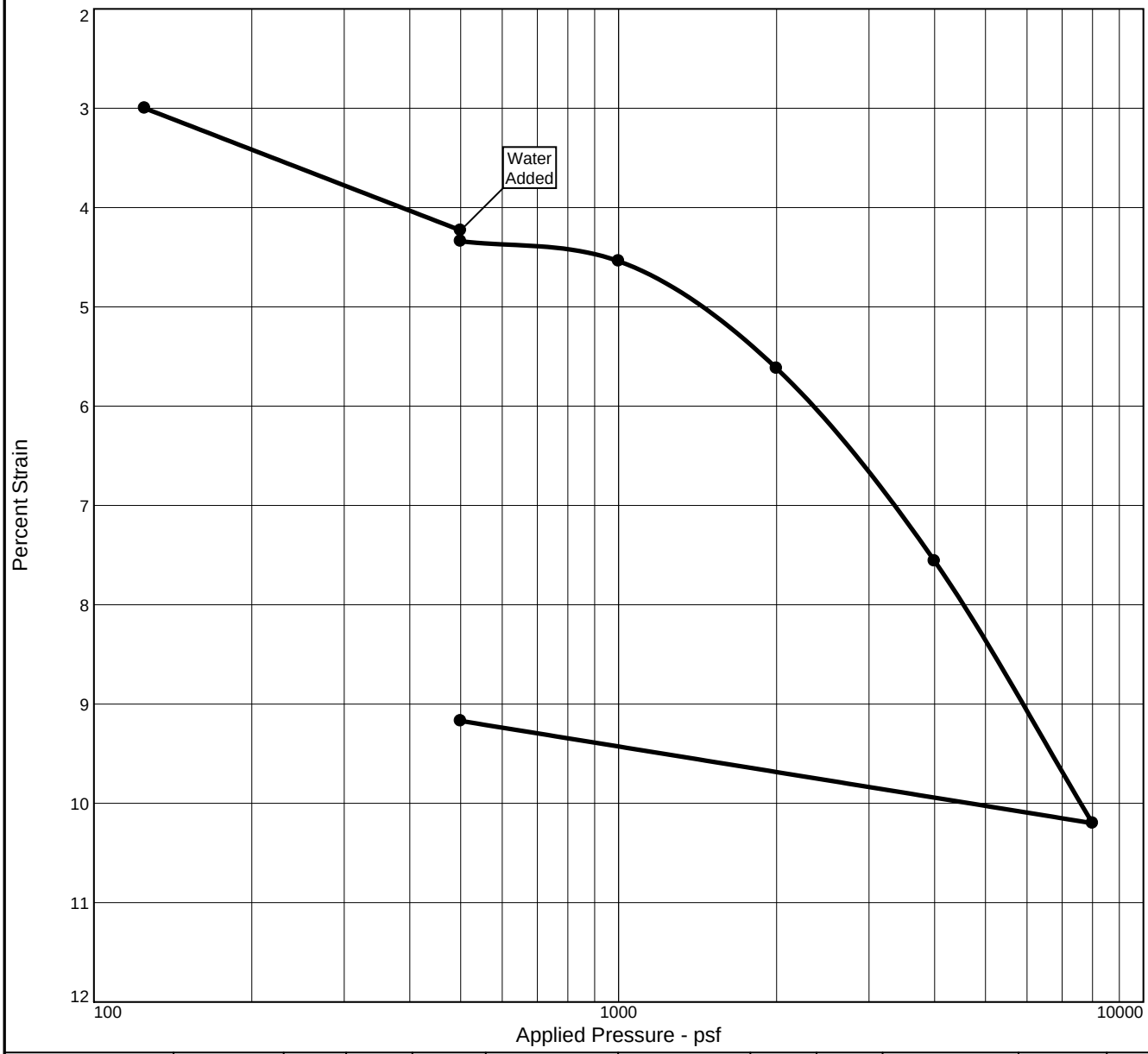
Gorian & Associates

Thousand Oaks, CA

Figure 9

Tested By: CA

CONSOLIDATION TEST REPORT



Natural		Dry Dens. (pcf)	LL	PI	Sp. Gr.	Overburden (psf)	P_c (psf)	C_c	C_r	Swell Press. (psf)	Clpse. %	e_o
Sat.	Moist.											
							1994				0.1	

MATERIAL DESCRIPTION	USCS	AASHTO
Clayey SAND		

Project No. 2880-83-3- **Client:** LAUSD

Project: LAUSD - Canoga Park High School

Location: B-13 **Depth:** 17.5

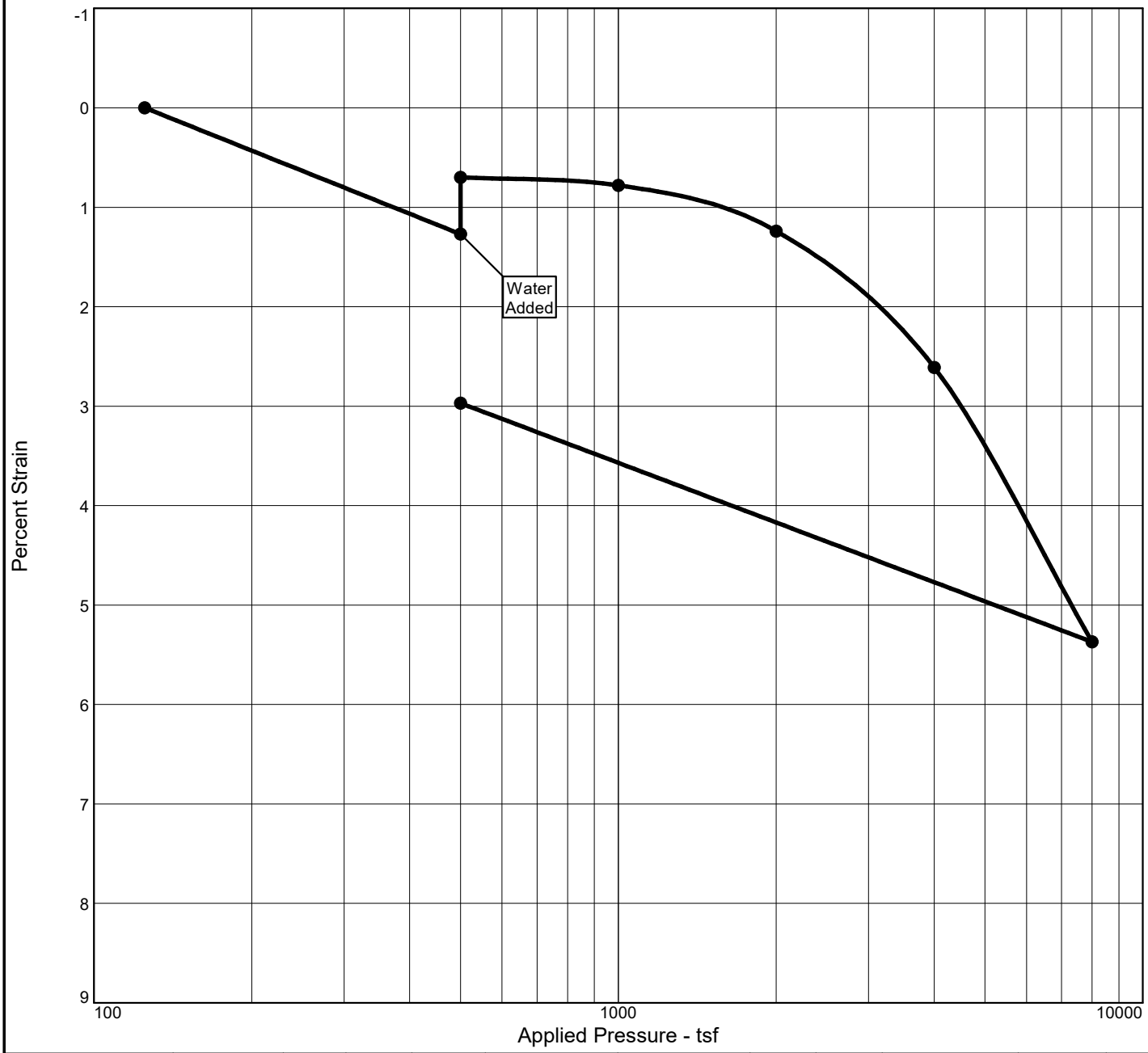
Remarks:
1/4/22

Gorian & Associates

Thousand Oaks, CA

Figure 10

CONSOLIDATION TEST REPORT



Natural Sat.	Natural Moist.	Dry Dens. (pcf)	LL	PI	Sp. Gr.	Overburden (tsf)	P_c (tsf)	C_c	C_r	Swell Press. (tsf)	Swell %	e_o
							2962.0			2045.6	0.6	

MATERIAL DESCRIPTION	USCS	AASHTO
Silty CLAY		

Project No. 2880-83-3- **Client:** LAUSD

Project: LAUSD - Canoga Park High School

Location: B-15 **Depth:** 15'

Remarks:
12/17/21

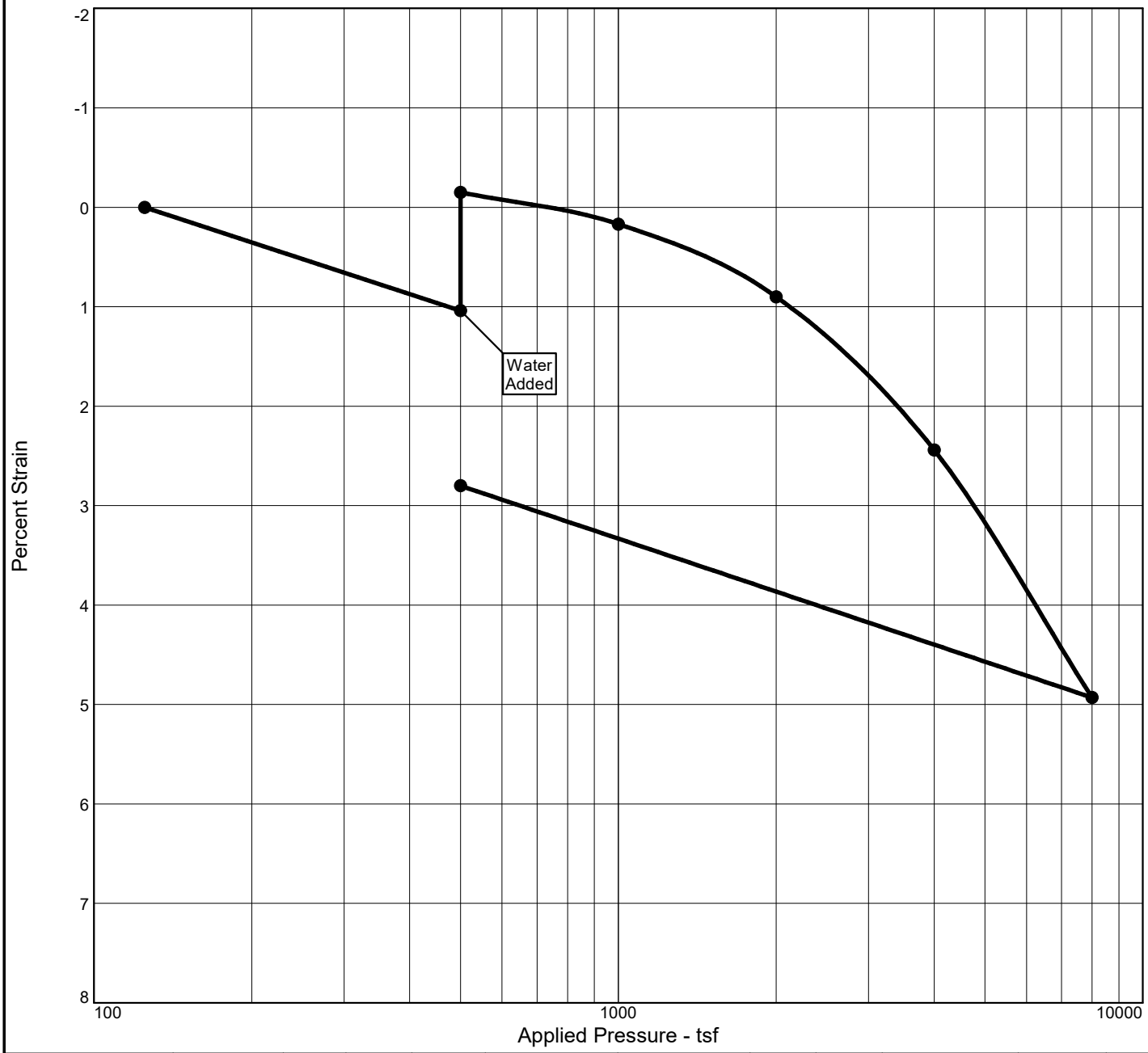
Gorian & Associates

Thousand Oaks, CA

Figure 11

Tested By: CA

CONSOLIDATION TEST REPORT



Natural		Dry Dens. (pcf)	LL	PI	Sp. Gr.	Overburden (tsf)	P_c (tsf)	C_c	C_r	Swell Press. (tsf)	Swell %	e_o
Sat.	Moist.											
							2600.1			2172.1	1.2	

MATERIAL DESCRIPTION	USCS	AASHTO
Silty CLAY		

Project No. 2880-83-3- **Client:** LAUSD

Project: LAUSD - Canoga Park High School

Location: B-16 **Depth:** 10

Remarks:
1/4/22

Gorian & Associates

Thousand Oaks, CA

Figure 12

Tested By: CA

NV5 WEST, INC.
1868 Palma Drive, Suite A, Ventura, CA 93003
Telephone (805) 656-6074; Fax (805) 650-6264

RESISTANCE "R" VALUE TEST
(ASTM D2844/CTM301)

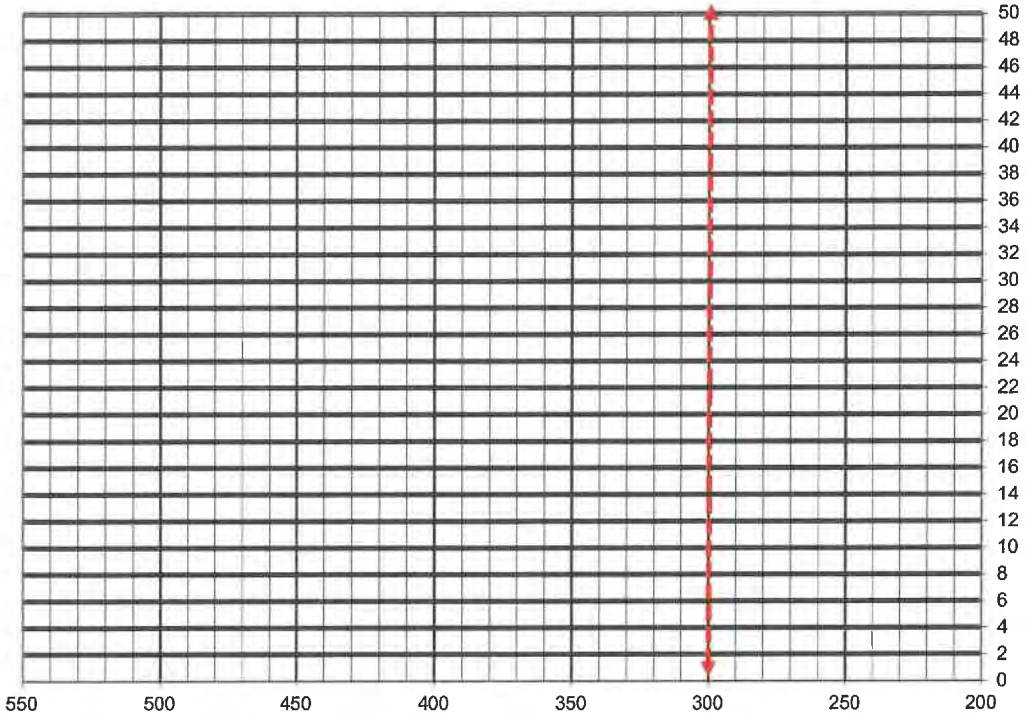
January 4, 2022

Gorian & Associates, Inc.
3595 Old Conejo Rd.
Thousand Oaks, CA 91360

NV5 JOB No: 10-000938
LAB No: 88930

Project: **Gorian & Associates, Inc. - W.O. 2880-83-3-100**
LAUSD Canoga Park HS
Material: **Dark Brown Silty CLAY (CH)**
Location: **Composite: B-12@3', B-12@5', B-15@2', & B15@5'**
Sampled By: Client
Date Received: 12/17/21

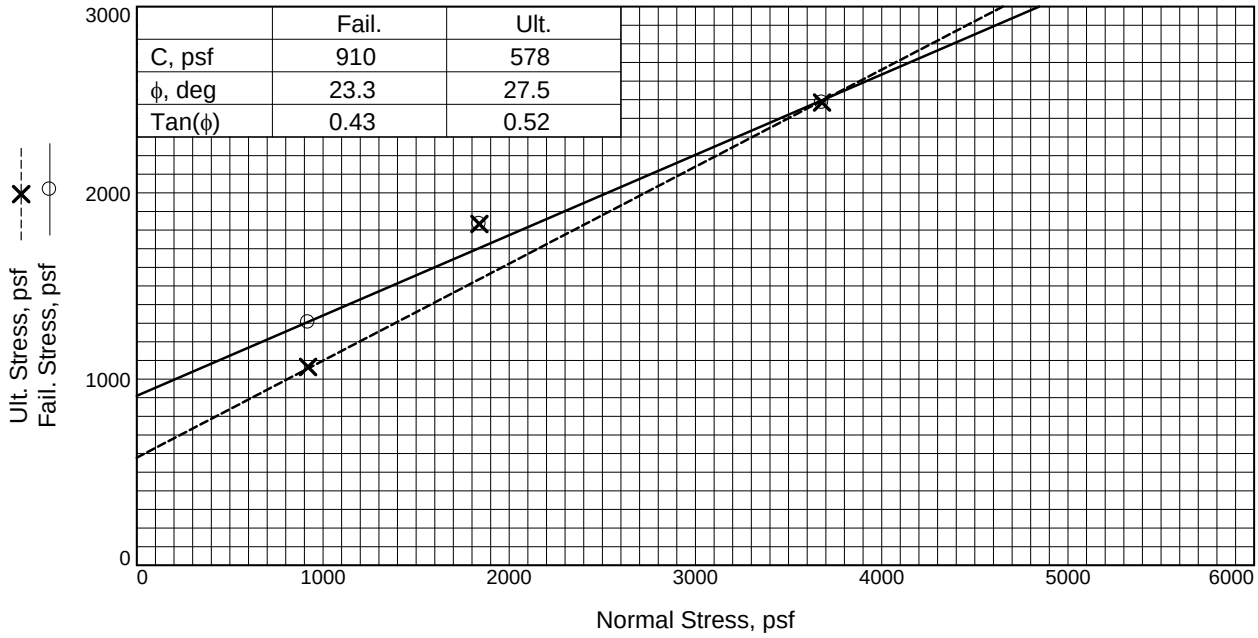
"R" VALUE BY EXUDATION GRAPH

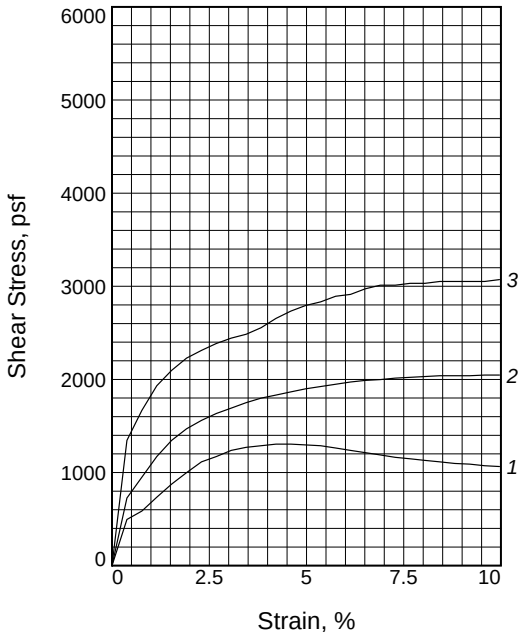


TEST SPECIMEN	A	B	C	D
COMP. FOOT PRESSURE, psi	N/A	N/A	N/A	
INITIAL MOISTURE %	N/A	N/A	N/A	
MOISTURE @ COMPACTION %	N/A	N/A	N/A	
DRY DENSITY, pcf	N/A	N/A	N/A	
EXUDATION PRESSURE, psi	N/A	N/A	N/A	
STABILOMETER VALUE 'R'	N/A*	N/A*	N/A*	
			R-Value @ Equilibrium =	**< 5***

*** During loading: Specimens extruded from under mold; Per Note 4 of ASTM D2844 Section 7 - Occasionally, material from very plastic clay-test specimens will extrude from under the mold and around the follower ram during the loading operation. If this occurs when the 5520-kPa [800-psi] point is reached and fewer than five light are lighted, *the soil should be reported as less than 5 R-value*.**

Reviewed By: _____





Sample No.		1	2	3
Initial	Water Content, %	N/A	N/A	N/A
	Dry Density, pcf	N/A	N/A	N/A
	Saturation, %	N/A	N/A	N/A
	Void Ratio	N/A	N/A	N/A
	Diameter, in.	2.61	2.61	2.61
	Height, in.	1.00	1.00	1.00
At Test	Water Content, %	N/A	N/A	N/A
	Dry Density, pcf			
	Saturation, %			
	Void Ratio			
	Diameter, in.			
	Height, in.			
Normal Stress, psf		920	1840	3680
Fail. Stress, psf		1304	1833	2485
Strain, %		4.2	4.2	3.4
Ult. Stress, psf		1065	1833	2485
Strain, %		10.0	4.2	3.4
Strain rate, in./min.		0.020	0.020	0.020

Sample Type: Remolded
Description: Brown silty CLAY

Specific Gravity=
Remarks:

Figure _____

Client: LAUSD

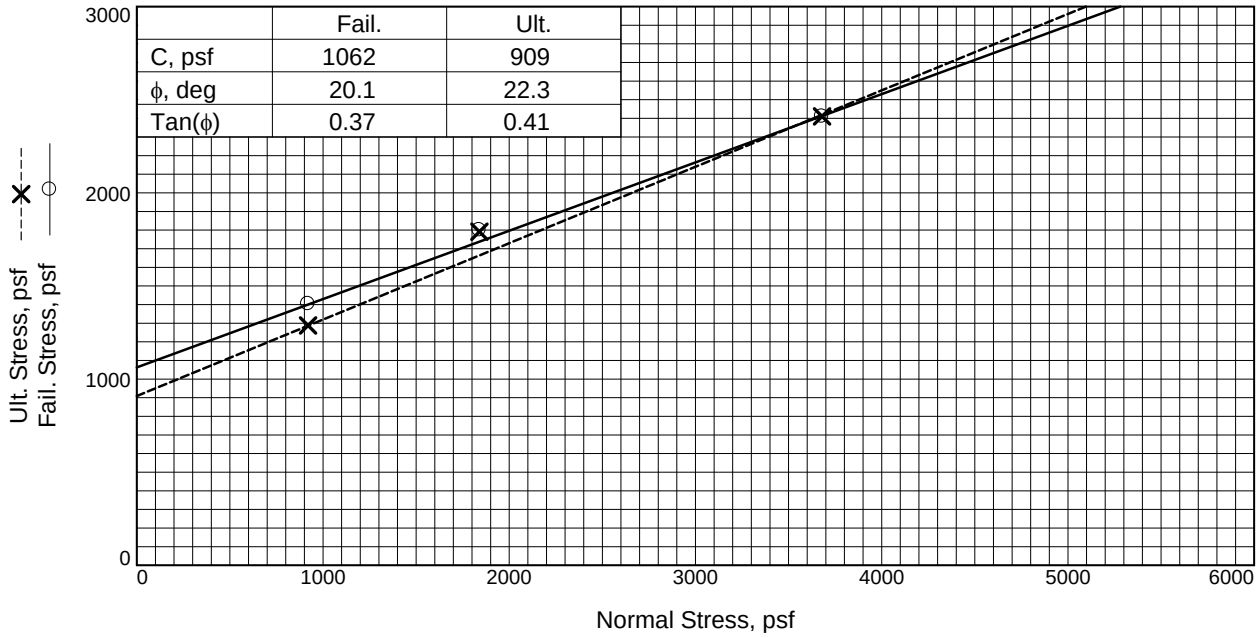
Project: Canoga Park High School

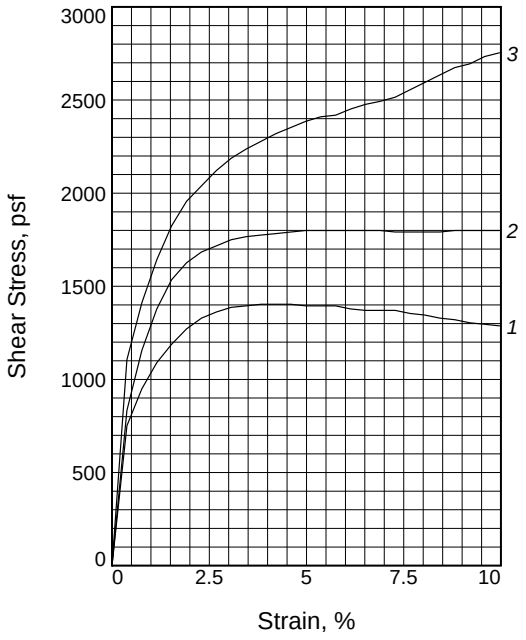
Sample Number: B-1 **Depth:** 2'

Proj. No.: 2880-83-0-100 **Date Sampled:**

DIRECT SHEAR TEST REPORT
Gorian & Associates
Thousand Oaks, CA

Checked By: DM





Sample No.		1	2	3
Initial	Water Content, %	N/A	N/A	N/A
	Dry Density, pcf	N/A	N/A	N/A
	Saturation, %	N/A	N/A	N/A
	Void Ratio	N/A	N/A	N/A
	Diameter, in.	2.61	2.61	2.61
	Height, in.	1.00	1.00	1.00
At Test	Water Content, %	N/A	N/A	N/A
	Dry Density, pcf			
	Saturation, %			
	Void Ratio			
	Diameter, in.			
	Height, in.			
Normal Stress, psf		920	1840	3680
Fail. Stress, psf		1403	1800	2410
Strain, %		4.2	6.9	5.4
Ult. Stress, psf		1288	1791	2410
Strain, %		10.0	8.4	5.4
Strain rate, in./min.		0.020	0.020	0.020

Sample Type: Remolded
Description: Brown Silty Clay trace Sand

Specific Gravity=
Remarks:

Figure _____

Client: LAUSD

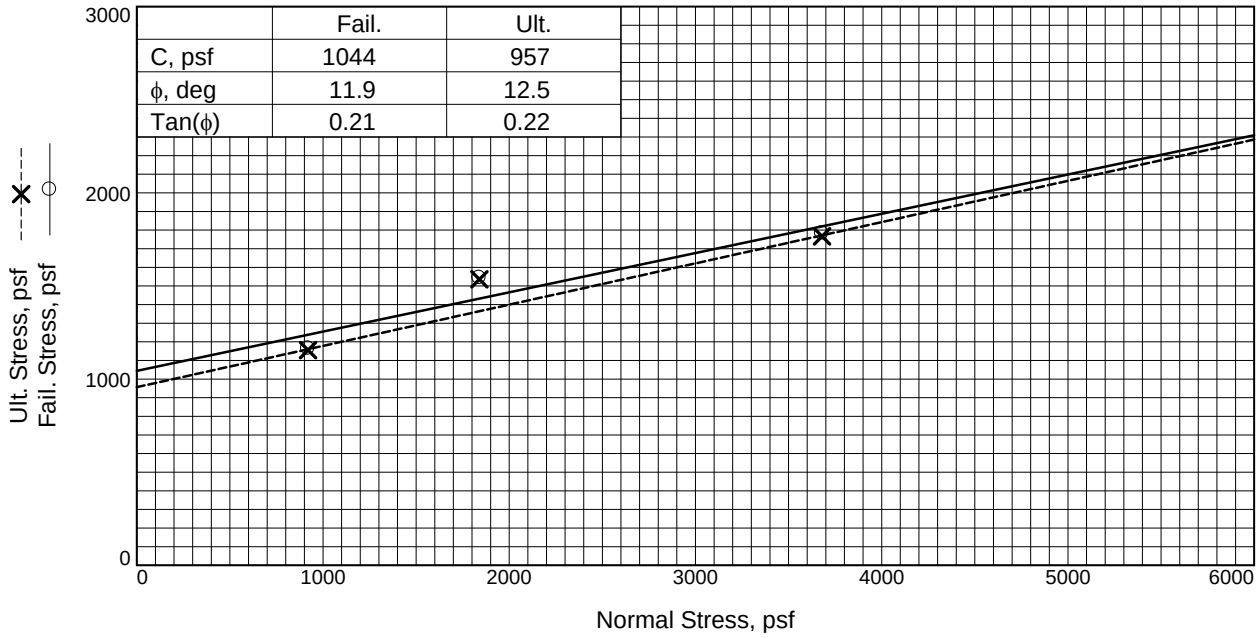
Project: Canoga Park High School

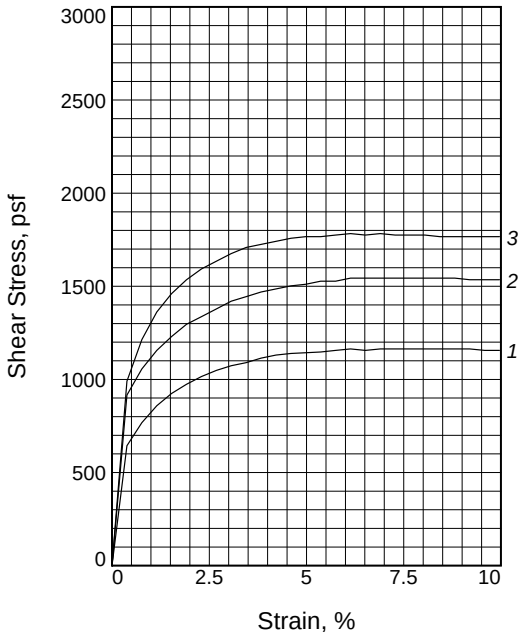
Sample Number: B-2 **Depth:** 5'

Proj. No.: 2880-83-0-100 **Date Sampled:**

DIRECT SHEAR TEST REPORT
Gorian & Associates
Thousand Oaks, CA

Tested By: CD **Checked By:** DM





Sample No.		1	2	3
Initial	Water Content, %	N/A	N/A	N/A
	Dry Density, pcf	N/A	N/A	N/A
	Saturation, %	N/A	N/A	N/A
	Void Ratio	N/A	N/A	N/A
	Diameter, in.	2.61	2.61	2.61
	Height, in.	1.00	1.00	1.00
At Test	Water Content, %	N/A	N/A	N/A
	Dry Density, pcf			
	Saturation, %			
	Void Ratio			
	Diameter, in.			
	Height, in.			
Normal Stress, psf		920	1840	3680
Fail. Stress, psf		1164	1544	1783
Strain, %		6.1	6.1	6.1
Ult. Stress, psf		1156	1535	1767
Strain, %		10.0	9.2	8.4
Strain rate, in./min.		0.020	0.020	0.020

Sample Type: Relatively Undisturbed
Description: Brown silty CLAY (common calcium carbonate veinlets/masses).

Specific Gravity=
Remarks:

Figure _____

Client: LAUSD

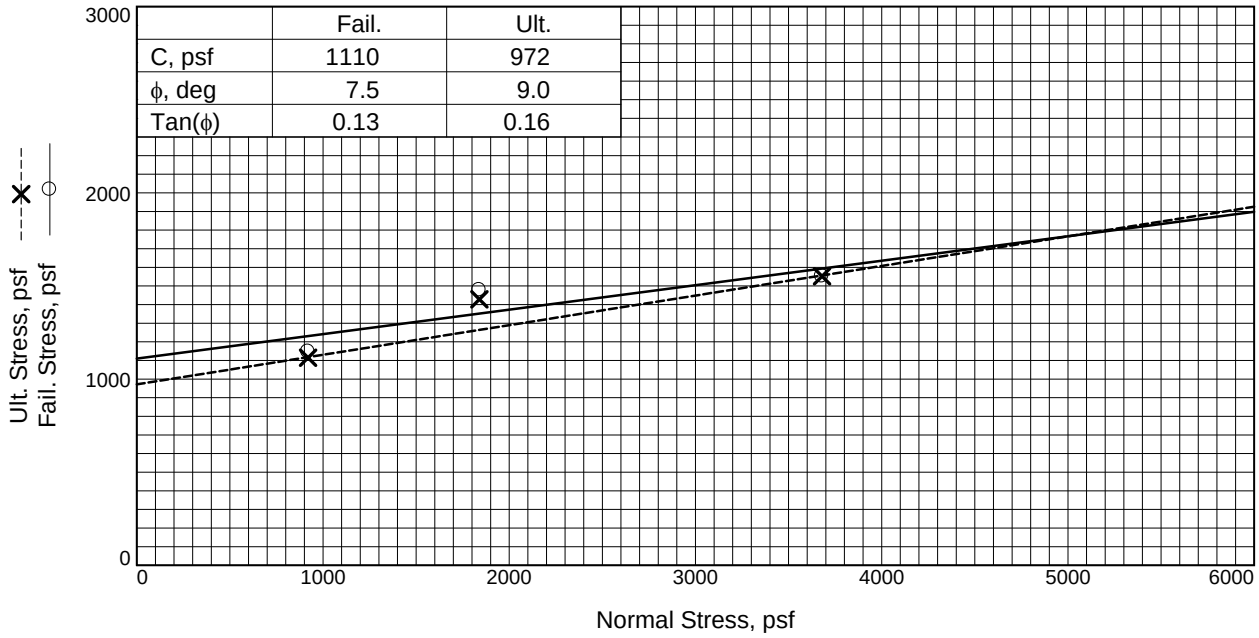
Project: Canoga Park High School

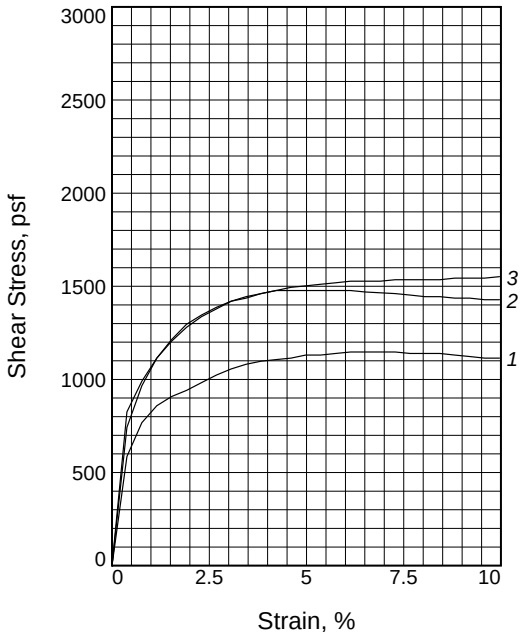
Sample Number: B-3 **Depth:** 5'

Proj. No.: 2880-83-0-100 **Date Sampled:**

DIRECT SHEAR TEST REPORT
Gorian & Associates
Thousand Oaks, CA

Checked By: DM





Sample No.		1	2	3
Initial	Water Content, %	N/A	N/A	N/A
	Dry Density, pcf	N/A	N/A	N/A
	Saturation, %	N/A	N/A	N/A
	Void Ratio	N/A	N/A	N/A
	Diameter, in.	2.61	2.61	2.61
	Height, in.	1.00	1.00	1.00
At Test	Water Content, %	N/A	N/A	N/A
	Dry Density, pcf			
	Saturation, %			
	Void Ratio			
	Diameter, in.			
	Height, in.			
Normal Stress, psf		920	1840	3680
Fail. Stress, psf		1147	1478	1552
Strain, %		6.1	4.2	10.0
Ult. Stress, psf		1114	1428	1552
Strain, %		9.6	9.6	10.0
Strain rate, in./min.		0.020	0.020	0.020

Sample Type: Relatively Undisturbed
Description: Yellowish brown silty CLAY (common calcium carbonate veinlets).

Specific Gravity=
Remarks:

Figure _____

Client: LAUSD

Project: Canoga Park High School

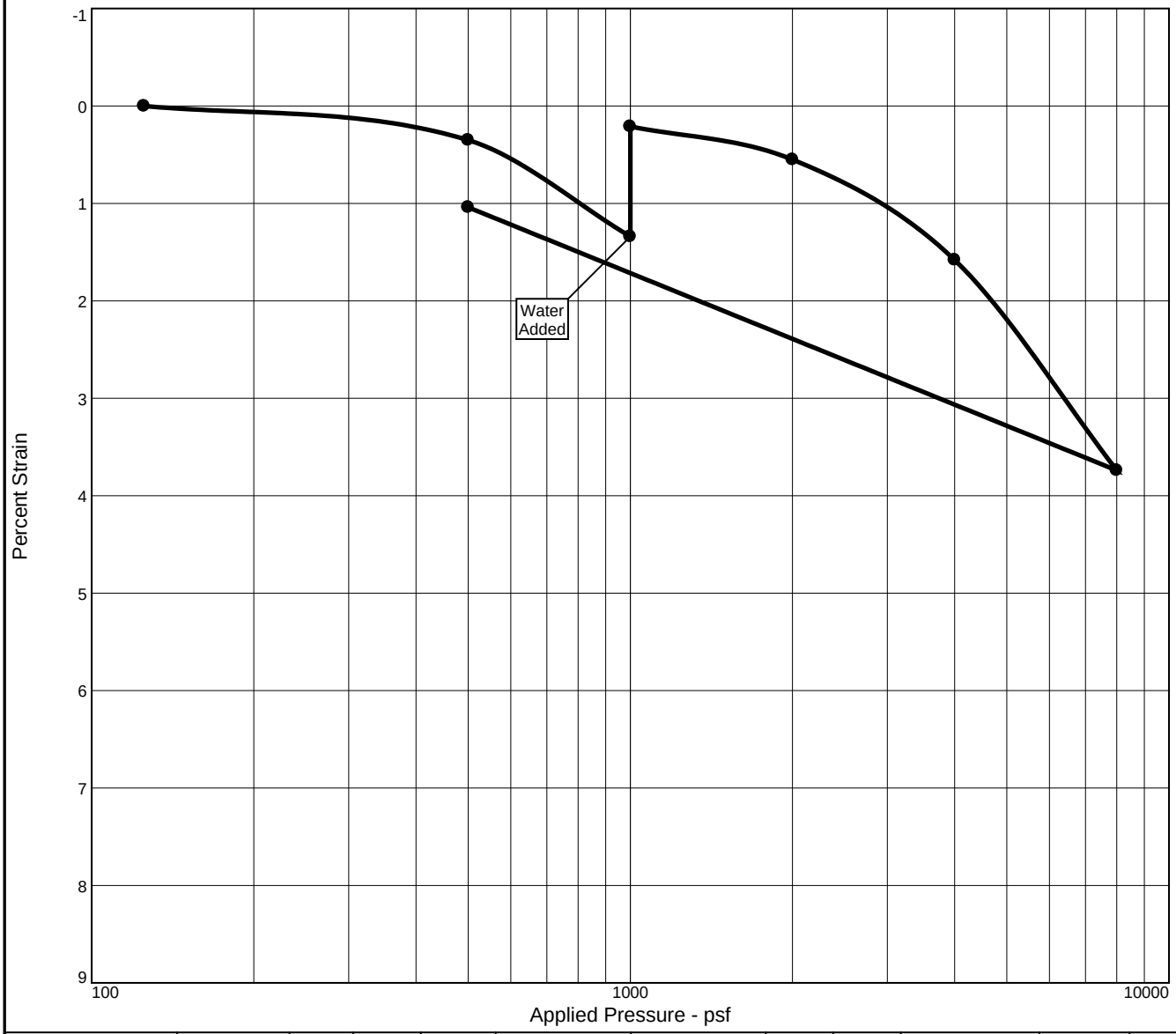
Sample Number: B-4 **Depth:** 8'

Proj. No.: 2880-83-0-100 **Date Sampled:**

DIRECT SHEAR TEST REPORT
Gorian & Associates
Thousand Oaks, CA

Checked By: DM

CONSOLIDATION TEST REPORT



Natural		Dry Dens. (pcf)	LL	PI	Sp. Gr.	Overburden (psf)	P_c (psf)	C_c	C_r	Swell Press. (psf)	Swell %	e_o
Sat.	Moist.											
							3324			3573	1.1	

MATERIAL DESCRIPTION	USCS	AASHTO
Brown silty CLAY		

Project No. 2880-83-0- **Client:** LAUSD

Project: Canoga Park High School

Depth: 2' **Sample Number:** B-1

Remarks:

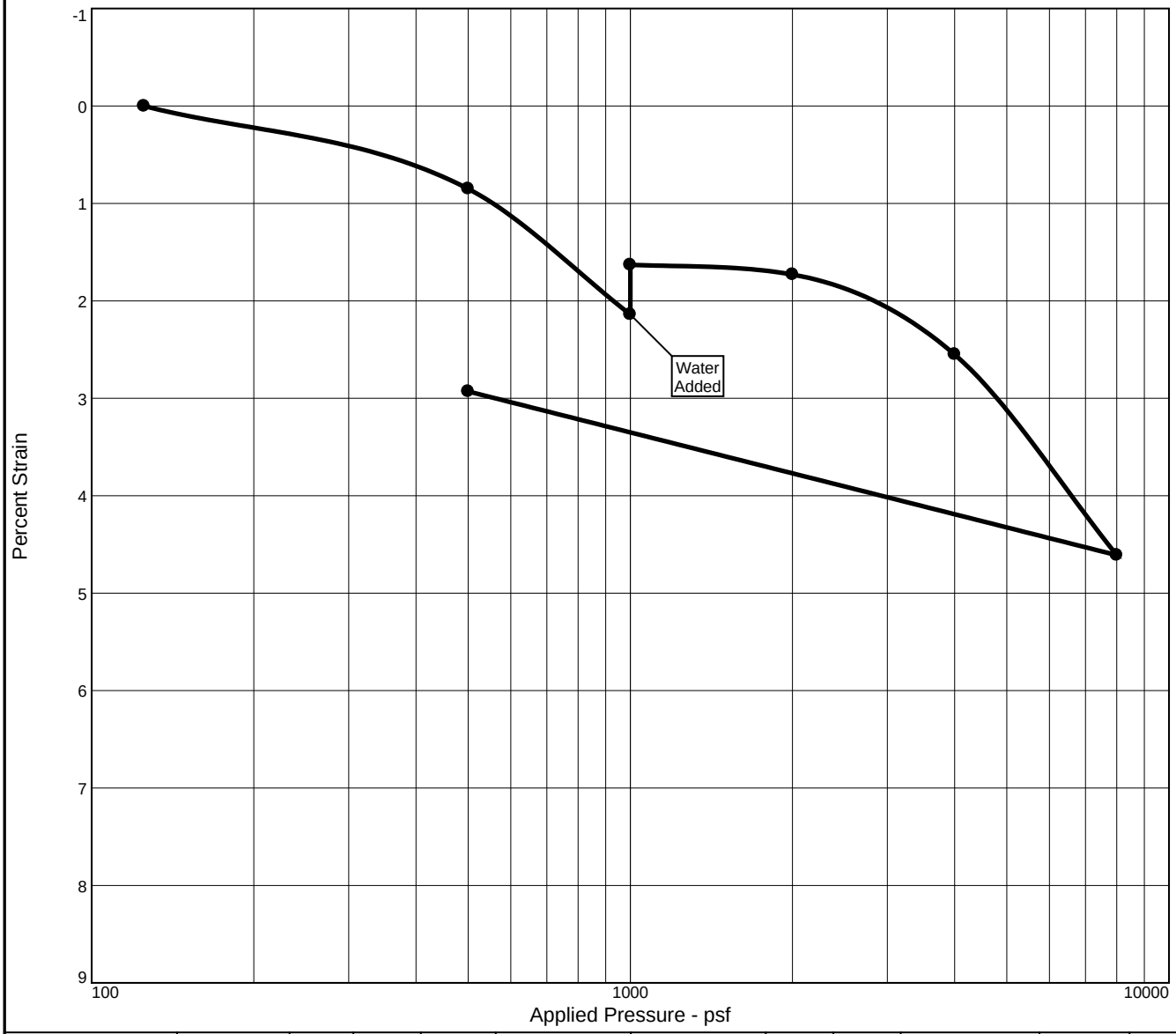
Gorian & Associates

Thousand Oaks, CA

Figure

Checked By: DM

CONSOLIDATION TEST REPORT



Natural Sat.	Natural Moist.	Dry Dens. (pcf)	LL	PI	Sp. Gr.	Overburden (psf)	P_c (psf)	C_c	C_r	Swell Press. (psf)	Swell %	e_o
							3425			3162	0.5	

MATERIAL DESCRIPTION	USCS	AASHTO
Yellowish brown silty CLAY		

Project No. 2880-83-0- **Client:** LAUSD

Project: Canoga Park High School

Depth: 15' **Sample Number:** B-2

Remarks:
Relatively Undisturbed

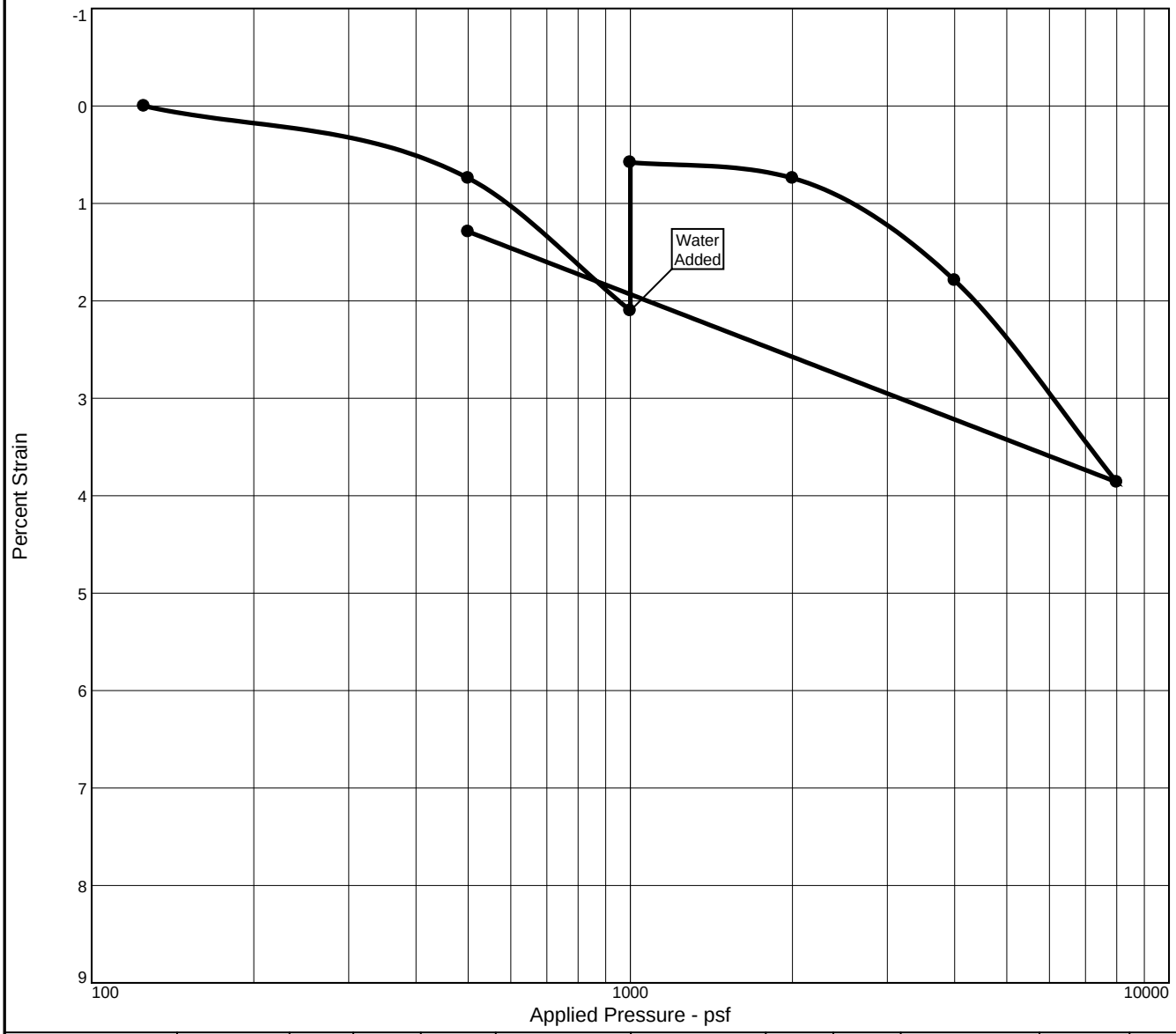
Gorian & Associates

Thousand Oaks, CA

Figure

Checked By: DM

CONSOLIDATION TEST REPORT



Natural		Dry Dens. (pcf)	LL	PI	Sp. Gr.	Overburden (psf)	P_c (psf)	C_c	C_r	Swell Press. (psf)	Swell %	e_o
Sat.	Moist.											
							3054			4530	1.5	

MATERIAL DESCRIPTION	USCS	AASHTO
Yellowish brown silty CLAY (common calcium carbonate veinlets and masses).		

Project No. 2880-83-0- **Client:** LAUSD

Project: Canoga Park High School

Depth: 10' **Sample Number:** B-3

Remarks:
Relatively Undisturbed

Gorian & Associates

Thousand Oaks, CA

Figure

Checked By: DM

APPENDIX B-1

CORROSION REPORT

Soil Corrosivity Evaluation Report for Canoga Park HS

January 3, 2022

Prepared for:
Sheryl Shatz
Gorian & Associates, Inc.
3595 Old Conejo Rd.
Thousand Oaks, CA 91320
sshatz@gorian.net

Project X Job #: S211227A
Client Job or PO #: 2880-83-3-100

Contents

1 Executive Summary 4
2 Corrosion Control Recommendations 5
2.1 Cement 5
2.2 Steel Reinforced Cement/ Cement Mortar Lined & Coated (CML&C) 5
2.3 Stainless Steel Pipe/Conduit/Fittings 6
2.4 Steel Post Tensioning Systems 6
2.5 Steel Piles 7
2.5.1 Expected Corrosion Rate of Steel and Zinc in disturbed soil 8
2.5.2 Expected Corrosion Rate of Steel and Zinc in Undisturbed soil 8
2.6 Steel Storage tanks 9
2.7 Steel Pipelines 9
2.8 Steel Fittings 11
2.9 Ductile Iron (DI) & Cast Iron Fittings 11
2.10 Ductile Iron & Cast Iron Pipe 12
2.11 Copper Materials 14
2.11.1 Copper Pipes 14
2.11.2 Brass Fittings 15
2.11.3 Bare Copper Grounding Wire 15
2.12 Aluminum Pipe/Conduit/Fittings 16
2.13 Carbon Fiber or Graphite Materials 16
2.14 Plastic and Vitrified Clay Pipe 16
3 CLOSURE 17
4 Soil analysis lab results 18
5 Corrosion Basics 21
5.1 Pourbaix Diagram – In regards to a material's environment 21
5.2 Galvanic Series – In regards to dissimilar metal connections 21
5.3 Corrosion Cell 24
5.4 Design Considerations to Avoid Corrosion 25
5.4.1 Testing Soil Factors (Resistivity, pH, REDOX, SO, CL, NO3, NH3) 25
5.4.2 Proper Drainage 26
5.4.3 Avoiding Crevices 26
5.4.4 Coatings and Cathodic Protection 27

5.4.5 Good Electrical Continuity 29
5.4.6 Bad Electrical Continuity 30
5.4.7 Corrosion Test Stations 30
5.4.8 Excess Flux in Plumbing 31
5.4.9 Landscapers and Irrigation Sprinkler Systems 31
5.4.10 Roof Drainage splash zones 31
5.4.11 Stray Current Sources 32

1 Executive Summary

A corrosion evaluation of the soils at Canoga Park HS was performed to provide corrosion control recommendations for general construction materials. The site is located at Canoga Park High School, 6850 CA-27, Canoga Park, CA 91303. Six (6) samples were tested to a depth of 4.0 ft. Site ground water and topography information was provided by Gorian & Associates, Inc.. Groundwater depth was determined to be 18 feet below finished grade.

Every material has its weakness. Aluminum alloys, galvanized/zinc coatings, and copper alloys do not survive well in very alkaline or very acidic pH environments. Copper and brasses do not survive well in high nitrate or ammonia environments. Steels and irons do not survive well in low soil resistivity and high chloride environments. High chloride environments can even overcome and attack steel encased in normally protective concrete. Concrete does not survive well in high sulfate environments. And nothing survives well in high sulfide and low redox potential environments with corrosive bacteria. This is why Project X tests for these 8 factors to determine a soil's corrosivity towards various construction materials. **Depending solely on soil resistivity or Caltrans corrosion guidelines (which concentrate on concrete/steel highways), will over-simplify descriptions as corrosive or non-corrosive. This approach will not detect these other factors attacking other metals because it is possible to have bad levels of corrosive ions and still have greater than 1,100 ohm-cm soil resistivity. We have observed this fact on thousands of soil samples tested in our laboratory.**

It should not be forgotten that import soil should also be tested for all factors to avoid making your site more corrosive than it was to begin with.

The recommendations outlined herein are not a substitute for any design documents previously prepared for the purpose of construction and apply only to the depth of samples collected.

Soil samples were tested for minimum resistivity, pH, chlorides, sulfates, ammonia, nitrates, sulfides and redox.

As-Received soil resistivities ranged between 476 ohm-cm and 8,040.0 ohm-cm. This data would be similar to a Wenner 4 pin test in the field and used in the design of a cathodic protection or grounding bed system. This resistivity can change seasonally depending on the weather and moisture in the ground. This reading alone can be misleading because condensation or minor water leaks will occur underground along pipe surfaces creating a saturated soil environment in the trench on infrastructure surfaces. This is why minimum or saturated soil resistivity measurements are more important than as-received resistivities.

Saturated soil resistivities ranged between 462 ohm-cm to 3,149 ohm-cm. The worst of these values is considered to be severely corrosive to general metals.

PH levels ranged between 8.0 to 8.9 pH. PH levels were determined to be at levels not detrimental to copper or aluminum alloys. The pH of these samples can allow corrosion of steel and iron in moist environments.

Chlorides ranged between 13 mg/kg to 123 mg/kg. Chloride levels in these samples are low and may cause insignificant corrosion of metals.

Sulfates ranged between 110 mg/kg to 2,324 mg/kg. At all locations except around sample B-14, Sulfate levels in these samples are moderate for corrosion of metals and cement. Type II cement should be used that does not contain encased metal.

For the area around sample B-14, Sulfate levels in these samples are severe for corrosion of metals and cement. Type V cement and coatings for metals should be used.

Ammonia ranged between 0.6 mg/kg to 9.4 mg/kg. Nitrates ranged between 0.0 mg/kg to 421.0 mg/kg. Concentrations of these elements were high enough to cause accelerated corrosion of copper and copper alloys such as brass.

Sulfides presence was determined to be trace. REDOX ranged between + 136 mV to + 200 mV.

Though sulfides were detected, the probability of corrosive bacteria was determined to be low due to very positive REDOX levels determined in these samples.

2 Corrosion Control Recommendations

The following recommendations are based upon the results of soil testing.

2.1 Cement

The highest reading for sulfates was 2,324 mg/kg or 0.2324 percent by weight.

At all locations except around sample B-14, Per ACI 318-14, Table 19.3.1.1, sulfate levels in these samples categorized as S1 and are moderate for corrosion of metals and cement. Per ACI 318-14 Table 19.3.2.1 Type II, IP(MS), IS(MS), IT(MS) cement should be used, with a maximum water/cement ratio of 0.50, and minimum strength of 4,000 psi per applicable code.

For the area around sample B-14, Per ACI 318-14, Table 19.3.1.1, sulfate levels in these samples categorized as S2 and are severe for corrosion of metals and cement. Type V, IP(HS), IS(HS), or IT(HS) cement should be used, with a maximum water/cement ratio of 0.45, and minimum strength of 4,500 psi per applicable code.

2.2 Steel Reinforced Cement/ Cement Mortar Lined & Coated (CML&C)

Chlorides in soil can overcome the corrosion inhibiting property of cement for steel, as it can also break through passivated surfaces of aluminum and stainless steels.[1,2] The highest concentration of chlorides was 123 mg/kg.

Chloride levels in these samples are not significantly corrosive to metals not in tension. Standard cement cover may be used in these soils.

Though soils at some locations are significantly corrosive to various metals, per ACI 318-14 Chapter 19 Table 19.3.1.1, all slabs on this site exposure categories and class for **Corrosion Protection of Reinforcement (C) would be considered C1** as Concrete exposed to moisture [mud/rain] (slab sides and bottom) but not to an external source of chlorides. Though there are chlorides in the soil, ACI 318's definition of "external source of chlorides" consists of deicing chemicals, salt, brackish water, seawater, or spray from these sources. The chloride levels in seawater are typically over 19,000 mg/L or 19,000 ppm.

[1] Design Manual 303: Cement Cylinder Pipe. Ameron. p.65
[2] *Chapter 19, Table 1904.2.2(1), 2012 International Building Code*

When concrete is tested for water-soluble chloride ion content, the tests should be made at an age of 28 to 42 days. The limits in Per ACI 318-14 Table 5.3.2.1 are to be applied to chlorides contributed from the concrete ingredients, not those from the environment surrounding the concrete.[3]

2.3 Stainless Steel Pipe/Conduit/Fittings

Stainless steels derive their corrosion resistance from their chromium content and oxide layer which needs oxygen to regenerate if damaged. Thus stainless steel is not good for deep soil applications where oxygen levels are extremely low. Stainless steels should not be installed deeper than a plant root zone. Stainless steels typically have the same nobility as copper on the galvanic series and can be connected to copper. If stainless steel must be used, it must be backfilled with soil having greater than 10,000 ohm-cm resistivity and excellent drainage. 304 Stainless steel will also corrode if in contact with carbon materials such as activated carbon. Stainless steel welds should be pickled.

The soil at this site has low probability for anaerobic corrosive bacteria and low chloride levels. Per Nickel Institute guidelines, 304 or 316 Stainless steels can be used in these soils.

2.4 Steel Post Tensioning Systems

The proper sealing of stressing holes is of utmost importance in PT Systems. Cut off excess strand 1/2" to 3/4" back in the hole. Coat or paint exposed anchorage, grippers, and stub of strands with "Rust-o-leum" or equal. After tendons have been coated, the cement contractor shall dry pack blockouts within ten (10) days. A non-shrink, non-metallic, non-porous moisture-insensitive grout (Master EMACO S 488 or equivalent), or epoxy grout shall be used for this purpose. If an encapsulated post-tension system is used, regular non-shrink grout can be used.

Soil with high chloride levels is considered an aggressive environment for post-tensioning strands and anchors. Due to the high chloride levels determined on-site, implement all of the following measures:[4,5,6]

1) Completely encapsulate the tendon and anchor with polyethylene to create a watertight seal. Epoxy or powder coated hardware would be equivalent to polyethylene coated and impermeable waterproofing system.
2) Add grease caps to the cut strand at live end anchors to provide extra protection against corrosion due to high chloride concentrations.
3) All components exposed to the job site should be protected within one working day after their exposure during installation.
4) Ensure the minimum cement cover over the tendon tail is 1-inch, or greater if required by the applicable building code.

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[3] ACI 381-14., BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318-14) AND COMMENTARY (ACI 318R-14)

[4] *Standard Requirements for Design and Analysis of Shallow Post-Tensioned Concrete Foundations on Expansive Soils, PTI DC10.5-12,Table 4.1, pg 16*

[5] *Specification for Unbonded Single Strand Tendons. Post-Tensioning Institute (PTI), Phoenix, AZ, 2000.*

[6] *ACI 423.6-01: Specification for Unbonded Single Strand Tendons. American Cement Institute (ACI), 2001*

5) Caps and sleeves should be installed within one working day after the cutting of the tendon tails and acceptance of the elongation records by the engineer.
6) Inspect the following to ensure the encapsulated system is completely watertight:
   a) Sheathing: Verify that all damaged areas, including pin-holes, are repaired.
   b) Stressing tails: After removal, ensure they are cut to a length for proper installation of P/T coating filled end caps.
   c) End caps: Ensure proper installation before patching the pocket former recesses.
   d) Patching: Ensure the patch is of an approved material and mix design, and installed void-free.
   e) Limit the access of direct runoff onto the anchorage area by designing proper drainage.
   f) Provide at least 2 inches of space between finish grade and the anchorage area, or more if required by applicable building codes.

2.5 Steel Piles

Steel piles are most susceptible to corrosion in disturbed soil where oxygen is available. Further, a dissimilar environment corrosion cell would exist between the steel embedded in cement, such as pile caps and the steel in the soil. In the cell, the steel in the soil is the anode (corroding metal), and the steel in cement is the cathode (protected metal). This cell can be minimized by coating the part of the steel piles that will be embedded in cement to prevent contact with cement and reinforcing steel.

Piles driven into soils without disturbing soils will avoid oxygen introduction and low corrosion rates unless there is a probability for corrosive anaerobic bacteria. Galvanized steel's zinc coating can provide significant protection for driven piles. In corrosive soils in which normal zinc coatings are not enough, the life of piles can be extended by increasing zinc coating thickness, using sacrificial metal, or providing a combination of epoxy coatings and cathodic protection. Corrosion has been observed to be extremely localized even at and below underground water tables. Pit depths of this magnitude do not have an appreciable effect on the strength or useful life of piling structures because the reduction in pile cross section is not significant.[7] Pitting is of more importance to pipes transporting liquids or gases which should not be leaked into the ground.

The following recommendations are recommended to achieve desired life. We defer to structural engineers to use our estimated corrosion rates and to choose from the corrosion control options listed below.

1) Sacrificial metal by use of thicker piles per non-disturbed soil corrosion rates, or
2) Galvanized steel piles per non-disturbed soil corrosion rates, or
3) Combination of galvanized and sacrificial metal per non-disturbed soil corrosion rates, or

[7] Melvin Romanoff, Corrosion of Steel Pilings in Soils, National Bureau of Standards Monograph 58, pg 20.

4) For no loss of metal, coat entire pile with abrasion resistant epoxy coating such as 3M Scotchkote 323, or PowercreteDD, or equivalent, or
5) Use high yield steel which will corrode at the same rate as mild steel but have greater yield strength and thus be able to suffer more material loss than mild steel.

2.5.1 Expected Corrosion Rate of Steel and Zinc in disturbed soil

In general, the corrosion rate of metals in soil depends on the electrical resistivity, the elemental composition, and the oxygen content of the soil. Soils can vary greatly from one acre to the next, especially at earthquake faults. The better a soil is for farming; the easier it will be for corrosion to take place. Expansive soils will also be considered disturbed simply because of their nature from dry to wet seasons.

In Melvin Romanoff's NBS Circular 579, the corrosion rates of carbon steels and various metals was studied over long term periods. Various metals were placed in various soil types to gather corrosion rate data of all metals in all soil types. Samples were collected and material loss measured over the course of 20 years in some sites. The following corrosion rates were estimated by comparing the worst results of soils tested with similar soils in Romanoff's studies and Highway Research Board's publications.[8] The corrosion rate of zinc in disturbed soils is determined per Romanoff studies and King Nomograph.[9]

Expected Corrosion Rate for Steel = 2.02 mils/year for one sided attack

Expected Corrosion Rate for Zinc = 0.67 mils/year for one sided attack.

Note: 1 mil = 0.001 inch

In undisturbed soils, a corrosion rate of 1 mil/year for steel is expected with little change in the corrosion rate of zinc due to it's low nobility in the galvanic series.

Per CTM 643: Years to perforation of corrugated galvanized steel culverts

- 25.7 Years to Perforation for a 18 gage metal culvert
- 33.4 Years to Perforation for a 16 gage metal culvert
- 41.1 Years to Perforation for a 14 gage metal culvert
- 56.5 Years to Perforation for a 12 gage metal culvert
- 72.0 Years to Perforation for a 10 gage metal culvert
- 87.4 Years to Perforation for a 8 gage metal culvert

2.5.2 Expected Corrosion Rate of Steel and Zinc in Undisturbed soil

Expected Corrosion Rate for Steel = 1 mils/year for one sided attack

Expected Corrosion Rate for Zinc = 0.67 mils/year for one sided attack.

Note: 1 mil = 0.001 inch

[8] Field test for Estimating Service Life of Corrugated Metal Culverts, J.L. Beaton, Proc. Highway Research Board, Vol 41, P. 255, 1962
[9] King, R.A. 1977, Corrosion Nomograph, TRRC Supplementary Report, British Corrosion Journal

2.6 Steel Storage tanks

Underground fuel tanks must be constructed and protected in accordance with California Underground Storage Tank Regulations, CCR, Title 23, Division 3, Chapter 16. Metals should be protected with cathodic protection or isolated from backfill material with an epoxy coating.

2.7 Steel Pipelines

Though a site may not be corrosive in nature at the time of construction, **installation of corrosion test stations and electrical continuity joint bonding should be performed during construction** so that future corrosion inspections can be performed. If steel pipes with gasket joints or other possibly non-conductive type joints are installed, their joints should be bonded across by welding or pin brazing a #8 AWG copper strand bond cable. Electrical continuity is necessary for corrosion inspections and for cathodic protection.

Corrosion test stations should be installed every 1,000 feet of pipeline.

Test stations shall have two #8 HMWPE copper strand wire test leads welded or pin brazed to the underground pipe, brought up into the test station hand hole and marked CTS. Wires should be brought into test station hand hole at finished grade with 12 inches of wire coiled within test station.

At isolation joints and pipe casings, 4 wire test stations shall be installed using #8 HMWPE copper strand wire test leads. Use different color wires to distinguish which wires are bonded to one side of isolation joint or to casing. Wires should be brought into test station hand hole at finished grade with 12 inches of wire coiled within test station.

Prevent dissimilar metal corrosion cells per NACE SP0286:

1) Electrically isolate dissimilar metal connections
2) Electrically isolate dissimilar coatings (Epoxy vs CML&C) segments connections
3) Electrically isolate river crossing segments
4) Electrically isolate freeway crossing segments
5) Electrically isolate old existing pipelines from new pipelines
6) Electrically isolate aboveground and underground pipe segments with flange isolation joint kits per NACE SP0286 to avoid galvanic corrosion cells. **These are especially important for fire risers.**

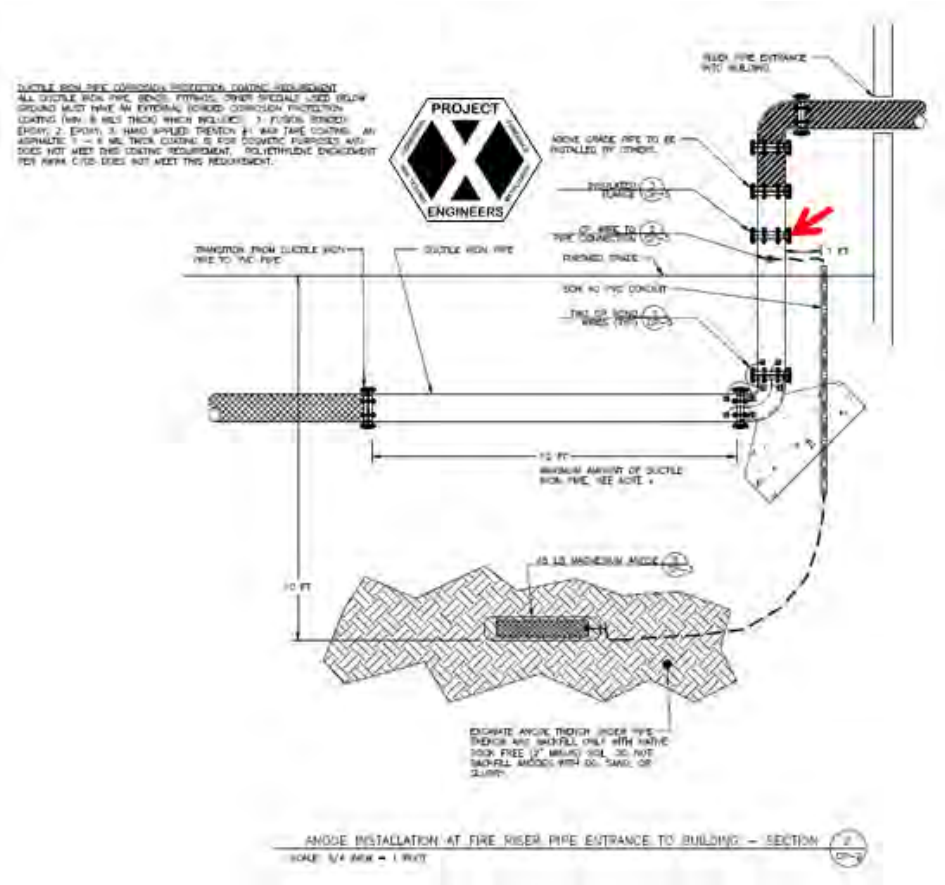


Figure 1- Fire Riser Detail: Install Isolation joint at red arrow

The corrosivity at this site is corrosive to steel. Any piping that must be jack bored should use abrasion resistant epoxy coating such as 3M Scotchkote 323, or PowercreteDD, or equivalent. The corrosion control options for this site are as follows:

1) Wax tape per AWWA C217, or
2) Coal tar enamel per AWWA C203, or
3) Fusion bonded epoxy per AWWA C213
4) And install cathodic protection system per NACE SP0169.

Or instead of CP and Dielectric coating

5) Use 5,000 psi cement designed per ACI 318-14 Chapter 19 Table 19.3.1.1 per C2 category which exceeds the exposure class for this project, or
6) For bare steel surfaces, such as welded pipe joints, apply 3 inch thick field coating of Type II cement or high pH slurry that will maintain pH higher than 12. Cement is both a corrosion inhibitor and a coating for ferrous metals. Cement naturally holds a pH of 12 or higher for many years if not exposed to high levels of carbon dioxide. (For CML&C pipes, CML&C factory applied 3/4 inch thick coating is equivalent and needs no extra thickness added.)

It is critical for the life of the pipe that the protective wrap contains no openings or holes. Prevent damage to the protective sleeve during backfilling of the pipe trench. Penetrations of

any kind within these or other protective materials generally leads to accelerated corrosion failure due to the fact that the corrosion attack is concentrated at the location of these penetrations. Cathodic protection will protect these defects. The better the coating, the less expensive a cathodic protection system will be in anode material and power requirement if needed.

2.8 Steel Fittings

The corrosivity at this site is very corrosive to steel. The corrosion control options for this site are as follows:

1) Apply impermeable dielectric coating such as minimum 10 mil thick polyethylene, or
2) Tape coating system per AWWA C214, or
3) Wax tape per AWWA C217, or
4) Coal tar enamel per AWWA C203, or
5) Fusion bonded epoxy per AWWA C213
6) And install cathodic protection system per NACE SP0169.

Or instead of CP and Dielectric coating

7) Apply 3 inch coating of Type II cement or high pH slurry that will maintain pH higher than 12. Cement is both a corrosion inhibitor and a coating for ferrous metals. Cement naturally holds a pH of 12 or higher for many years if not exposed to high levels of carbon dioxide.

It is critical for the life of the metal that the protective wrap contains no openings or holes. Prevent damage to the protective sleeve during backfilling of the pipe trench. Penetrations of any kind within these or other protective materials generally leads to accelerated corrosion failure due to the fact that the corrosion attack is concentrated at the location of these penetrations. Cathodic protection will protect these defects. The better the coating, the less expensive a cathodic protection system will be in anode material and power requirement if needed.

2.9 Ductile Iron (DI) & Cast Iron Fittings

AWWA C105 developed a 10 point system to classify sites as aggressive or non-aggressive to ductile iron materials. The 10-point system does not, and was never intended to, quantify the corrosivity of a soil. It is a tool used to distinguish nonaggressive from aggressive soils relative to iron pipe. Soils <10 points are considered nonaggressive to iron pipe, whereas soils ≥10 points are considered aggressive. A 15 and a 20 point soil are both considered aggressive to iron pipe, however, because of the nature of the soil parameters measured, the 20 point soil may not necessarily be more aggressive than the 15 point soil. The criterion is based upon soil resistivities, soil drainage, pH, sulfide presence, and reduction-oxidation (REDOX) potential. The soil samples tested for this site resulted in a score of 17.5 out of 25.5. A score greater or

equal to 10 points classifies soils as aggressive to iron materials. The black coating on iron pipes is purely for aesthetic purposes and should not be relied upon for corrosion protection.[10]

The corrosivity at this site is very corrosive to iron. The corrosion control options for this site are as follows:

1) Apply impermeable dielectric coating such as minimum 10 mil thick polyethylene, or
2) Wax tape per AWWA C217, or
3) Coal tar enamel per AWWA C203, or
4) Fusion bonded epoxy per AWWA C213
5) And install cathodic protection system per NACE SP0169.

Or instead of CP and Dielectric coating

6) Apply 3 inch coating of Type II cement or high pH slurry that will maintain pH higher than 12. Cement is both a corrosion inhibitor and a coating for ferrous metals. Cement naturally holds a pH of 12 or higher for many years if not exposed to high levels of carbon dioxide.

It is critical for the life of the metal that the protective wrap contains no openings or holes. Prevent damage to the protective sleeve during backfilling of the pipe trench. Penetrations of any kind within these or other protective materials generally leads to accelerated corrosion failure due to the fact that the corrosion attack is concentrated at the location of these penetrations. Cathodic protection will protect these defects. The better the coating, the less expensive a cathodic protection system will be in anode material and power requirement if needed.

2.10 Ductile Iron & Cast Iron Pipe

AWWA C105 developed a 10 point system to classify sites as aggressive or non-aggressive to ductile iron materials. The 10-point system does not, and was never intended to, quantify the corrosivity of a soil. It is a tool used to distinguish nonaggressive from aggressive soils relative to iron pipe. Soils <10 points are considered nonaggressive to iron pipe, whereas soils ≥10 points are considered aggressive. A 15 and a 20 point soil are both considered aggressive to iron pipe, however, because of the nature of the soil parameters measured, the 20 point soil may not necessarily be more aggressive than the 15 point soil. The criterion is based upon soil resistivities, soil drainage, pH, sulfide presence, and reduction-oxidation (REDOX) potential. The soil samples tested for this site resulted in a score of 17.5 out of 25.5. A score greater or equal to 10 points classifies soils as aggressive to iron materials. The black coating on iron pipes is purely for aesthetic purposes and should not be relied upon for corrosion protection.[11]

Though a site may not be corrosive in nature at the time of construction, **installation of corrosion test stations and electrical continuity joint bonding should be performed during construction** so that future corrosion inspections can be performed. If steel pipes with gasket joints or other possibly non-conductive type joints are installed, their joints should be bonded

[10] https://www.dipra.org/ductile-iron-pipe-resources/frequently-asked-questions/corrosion-control

[11] https://www.dipra.org/ductile-iron-pipe-resources/frequently-asked-questions/corrosion-control

across by welding or pin brazing a #8 AWG copper strand bond cable. Electrical continuity is necessary for corrosion inspections and for cathodic protection. **If using thermite, perform one test bond using a half-charge then pressure test to confirm excess heat and pinholes were not created.**

Pea gravel is used by plumbers to lay pipes and establish slopes. If the gravel has more than 200 ppm chlorides or is not tested, a 25 mil plastic should be placed between the gravel and pipe to avoid corrosion.

Corrosion test stations should be installed every 1,000 feet of pipeline.

Test stations shall have two #8 HMWPE copper strand wire test leads welded or pin brazed to the underground pipe, brought up into the test station hand hole and marked CTS. Wires should be brought into test station hand hole at finished grade with 12 inches of wire coiled within test station.

At isolation joints and pipe casings, 4 wire test stations shall be installed using #8 HMWPE copper strand wire test leads. Use different color wires to distinguish which wires are bonded to one side of isolation joint or to casing. Wires should be brought into test station hand hole at finished grade with 12 inches of wire coiled within test station.

Prevent dissimilar metal corrosion cells per NACE SP0286:

1) Electrically isolate dissimilar metal connections
2) Electrically isolate dissimilar coatings (Epoxy vs CML&C) segments connections
3) Electrically isolate river crossing segments
4) Electrically isolate freeway crossing segments
5) Electrically isolate old existing pipelines from new pipelines
6) Electrically isolate aboveground and underground pipe segments with flange isolation joint kits per NACE SP0286**. These are especially important for fire risers.**

The corrosivity at this site is corrosive to iron. The corrosion control options for this site are as follows:

1) Apply impermeable dielectric coating such as minimum 10 mil thick polyethylene, or
2) Wax tape per AWWA C217, or
3) Coal tar enamel per AWWA C203, or
4) Fusion bonded epoxy per AWWA C213
5) And install cathodic protection system per NACE SP0169.

Or instead of CP and Dielectric coating

6) Apply 3 inch coating of Type II cement or high pH slurry that will maintain pH higher than 12. Cement is both a corrosion inhibitor and a coating for ferrous metals. Cement naturally holds a pH of 12 or higher for many years if not exposed to high levels of carbon dioxide.

It is critical for the life of the metal that the protective wrap contains no openings or holes. Prevent damage to the protective sleeve during backfilling of the pipe trench. Penetrations of

any kind within these or other protective materials generally leads to accelerated corrosion failure due to the fact that the corrosion attack is concentrated at the location of these penetrations. Cathodic protection will protect these defects. The better the coating, the less expensive a cathodic protection system will be in anode material and power requirement if needed.

2.11 Copper Materials

Copper is an amphoteric material which is susceptible to corrosion at very high and very low pH. It is one of the most noble metals used in construction thus typically making it a cathode when connected to dissimilar metals. Copper's nobility can change with temperature, similar to the phenomenon in zinc. When zinc is at room temperature, it is less noble than steel and can provide cathodic protection to steel. But when zinc is at a temperature above 140F such as in a water heater, it becomes more noble than the steel and the steel becomes the sacrificial anode. This is why zinc is not used in steel water heaters or boilers. Cold copper has one native potential, but when heated it develops a more electronegative electro-potential aka open circuit potential. Thus hot and cold copper pipes should be electrically isolated from each other to avoid creation of a thermo-galvanic corrosion cell.

2.11.1 Copper Pipes

The lowest pH for this area was measured to be 8.0. Copper is greatly affected by pH, ammonia and nitrate concentrations[12]. The highest nitrate concentration was 421.0 mg/kg and the highest ammonia concentration was 9.4 mg/kg at this site.

These soils were determined to be corrosive to copper and copper alloys such as brass.

Aboveground, underground, cold water and hot water pipes should be electrically isolated from each other by use of dielectric unions and plastic in-wall pipe supports per NACE SP0286. The following are corrosion control options for underground copper water pipes.

1) Run copper pipes within PVC pipes to prevent soil contact, or
2) Cover piping with a 20 mil epoxy coating, or 8-mil polyethylene sleeve, or encase in double 4-mil thick polyethylene sleeves free of scratches and defects then backfill with clean sand with 2 inch minimum cover above and below tubing. Backfill should have a pH between 6 and 8 with electrical resistivity greater than 2,000 ohm-cm
3) Cover copper pipes with minimum 8 mil polyethylene sleeve or incase in double 4-mil thick polyethylene sleeves over a suitable primer and apply cathodic protection per NACE SP0169

It is critical for the life of the metal that the protective wrap contains no openings or holes. Prevent damage to the protective sleeve during backfilling of the pipe trench. Penetrations of any kind within these or other protective materials generally leads to accelerated corrosion failure due to the fact that the corrosion attack is concentrated at the location of these penetrations. Cathodic protection will protect these defects. The better the coating, the less expensive a cathodic protection system will be in anode material and power requirement if needed.

[12] Corrosion Data Handbook, Table 6, Corrosion Resistance of copper alloys to various environments, 1995

2.11.2 Brass Fittings

Brass fittings should be electrically isolated from dissimilar metals by use of dielectric unions or isolation joint kits per NACE SP0286.

These soils were determined to be corrosive to copper and copper alloys such as brass.

The following are corrosion control options for underground brass.

1) Prevent soil contact by use of impermeable coating system such as wax tape, or
2) Prevent soil contact by use of a 20 mil epoxy coating free of scratches and defects and backfill with clean sand with 4 inch minimum cover above and below brass. Backfill should have a pH between 6 and 8 with electrical resistivity greater than 2,000 ohm-cm, or
3) Cover brass with minimum 10 mil polyethylene sleeve over a suitable primer and apply cathodic protection per NACE SP0169

It is critical for the life of the metal that the protective wrap contains no openings or holes. Prevent damage to the protective sleeve during backfilling of the pipe trench. Penetrations of any kind within these or other protective materials generally leads to accelerated corrosion failure due to the fact that the corrosion attack is concentrated at the location of these penetrations. Cathodic protection will protect these defects. The better the coating, the less expensive a cathodic protection system will be in anode material and power requirement if needed.

2.11.3 Bare Copper Grounding Wire

It is assumed that corrosion will occur at all sides of the bare wire, thus the corrosion rate is calculated as a two sided attack determining the time it takes for the corrosion from two sides to meet at the center of the wire. The estimated life of bare copper wire for this site is the following:[13]

Size (AWG)	**Diameter (mils)**	**Est. Time to penetration (Yrs)**
14	64.1	5.5
13	72	6.2
12	80.8	7.0
11	90.7	7.8
10	101.9	8.8
9	114.4	9.9
8	128.5	11.1
7	144.3	12.4
6	162	14.0
5	181.9	15.7
4	204.3	17.6
3	229.4	19.8
2	257.6	22.2

[13] Soil-Corrosion studies 1946 and 1948: Copper Alloys, Lead, and Zinc, Melvin Romanoff, National Bureau of Standards, Research Paper RP2077, 1950

Size (AWG)	Diameter (mils)	Est. Time to penetration (Yrs)
1	289.3	24.9

If the bare copper wire is being used as a grounding wire connected to less noble metals such as galvanized steel or carbon steel, the less noble metals will provide additional cathodic protection to the copper reducing the corrosion rate of the copper.

It is recommended that a corrosion inhibiting and water-repelling coating be applied to aboveground and belowground copper-to-dissimilar metal connections to reduce risk of dissimilar corrosion. This can be wax tape, or other epoxy coating.

Tinned copper wiring or laying copper wire in conductive concrete can protect against chemical attack in soils with high nitrates, ammonia, sulfide and severely low soil electrical resistivity.

2.12 Aluminum Pipe/Conduit/Fittings

Aluminum is an amphoteric material prone to pitting corrosion in environments that are very acidic or very alkaline or high in chlorides.

Conditions at this site are safe for aluminum.

Aluminum derives its corrosion resistance from its oxide layer which needs oxygen to regenerate if damaged, similar to stainless steels. Thus aluminum is not good for deep soil applications. Since aluminum corrodes at very alkaline environments, it cannot be encased or placed against cement or mortar such as brick wall mortar up against an aluminum window frame.

Aluminum is also very low on the galvanic series scale making it most likely to become a sacrificial anode when in contact with dissimilar metals in moist environments. Avoid electrical continuity with dissimilar metals by use of insulators, dielectric unions, or isolation joints per NACE SP0286. Pooling of water at post bottoms or surfaces should be avoided by integrating good drainage.

2.13 Carbon Fiber or Graphite Materials

Carbon fiber or other graphite materials are extremely noble on the galvanic series and should always be electrically isolated from dissimilar metals. They can conduct electricity and will create corrosion cells if placed in contact within a moist environment with any metal.

2.14 Plastic and Vitrified Clay Pipe

No special precautions are required for plastic and vitrified clay piping from a corrosion viewpoint.

Protect all metallic fittings and pipe restraining joints with wax tape per AWWA C217, cement if previously recommended, or epoxy.

3 CLOSURE

In addition to soils chemistry and resistivity, another contributing influence to the corrosion of buried metallic structures is stray electrical currents. These electrical currents flowing through the earth originate from buried electrical systems, grounding of electrical systems in residences, commercial buildings, and from high voltage overhead power grids. Therefore, it is imperative that the application of protective wraps and/or coatings and electrical isolation joints be properly applied and inspected.

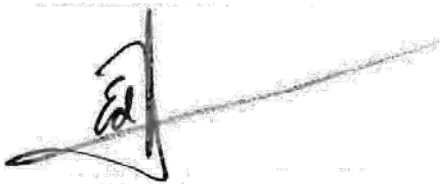
It is the responsibility of the builder and/or contractor to closely monitor the installation of such materials requiring protection in order to assure that the protective wraps or coatings are not damaged.

The recommendations outlined herein are in conformance with current accepted standards of practice that meet or exceed the provisions of the Uniform Building Code (UBC), the International Building Code (IBC), California Building Code (CBC), the American Cement Institute (ACI), Nickel Institute, National Association of Corrosion Engineers (NACE International), Post-Tensioning Institute Guide Specifications and State of California Department of Transportation, Standard Specifications, American Water Works Association (AWWA) and the Ductile Iron Pipe Research Association (DIPRA).

Our services have been performed with the usual thoroughness and competence of the engineering profession. No other warranty or representation, either expressed or implied, is included or intended.

Please call if you have any questions.

Respectfully Submitted,





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4 SOIL ANALYSIS LAB RESULTS

Client: Gorian & Associates, Inc.
Job Name: Canoga Park HS
Client Job Number: 2880-83-3-100
Project X Job Number: S211227A
January 3, 2022

	Method	ASTM D4327		ASTM D4327		ASTM G187		ASTM D4972	ASTM G200	ASTM D4658	ASTM D4327	ASTM D6919	ASTM D6919	ASTM D6919	ASTM D6919	ASTM D6919	ASTM D6919	ASTM D4327	ASTM D4327
Bore# / Description	**Depth**	**Sulfates** SO_4^{2-}		**Chlorides** Cl^-		**Resistivity** As Rec'd | Minimum		**pH**	**Redox**	**Sulfide** S^{2-}	**Nitrate** NO_3^-	**Ammonium** NH_4^+	**Lithium** Li^+	**Sodium** Na^+	**Potassium** K^+	**Magnesium** Mg^{2+}	**Calcium** Ca^{2+}	**Fluoride** F_2^{--}	**Phosphate** PO_4^{3-}
	(ft)	(mg/kg)	(wt%)	(mg/kg)	(wt%)	(Ohm-cm)	(Ohm-cm)		(mV)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
B-16	1	285.1	0.0285	123.4	0.0123	2,881	938	8.0	200	0.06	421.0	0.6	0.03	130.9	20.0	87.2	489.3	5.1	0.4
B-14	3	2,324.2	0.2324	80.1	0.0080	670	650	8.1	194	<0.01	21.6	9.4	0.01	296.2	239.7	100.7	468.6	4.7	1.7
B-11	3	185.5	0.0185	65.1	0.0065	8,040	3,149	8.5	158	4.35	28.9	3.1	0.04	119.7	44.6	121.9	501.1	19.6	27.3
B-13	10	1,389.8	0.1390	117.9	0.0118	516	503	8.5	168	<0.01	0.0	3.8	0.05	516.0	5.9	122.2	488.7	3.1	0.0
B-12	5	110.1	0.0110	13.0	0.0013	938	737	8.9	136	11.10	2.8	2.9	0.05	355.8	10.7	107.4	351.6	13.6	32.5

Unk = Unknown
NT = Not Tested
ND = 0 = Not Detected
mg/kg = milligrams per kilogram (parts per million) of dry soil weight
Chemical Analysis performed on 1:3 Soil-To-Water extract
Anions and Cations tested via Ion Chromatograph except Sulfide.

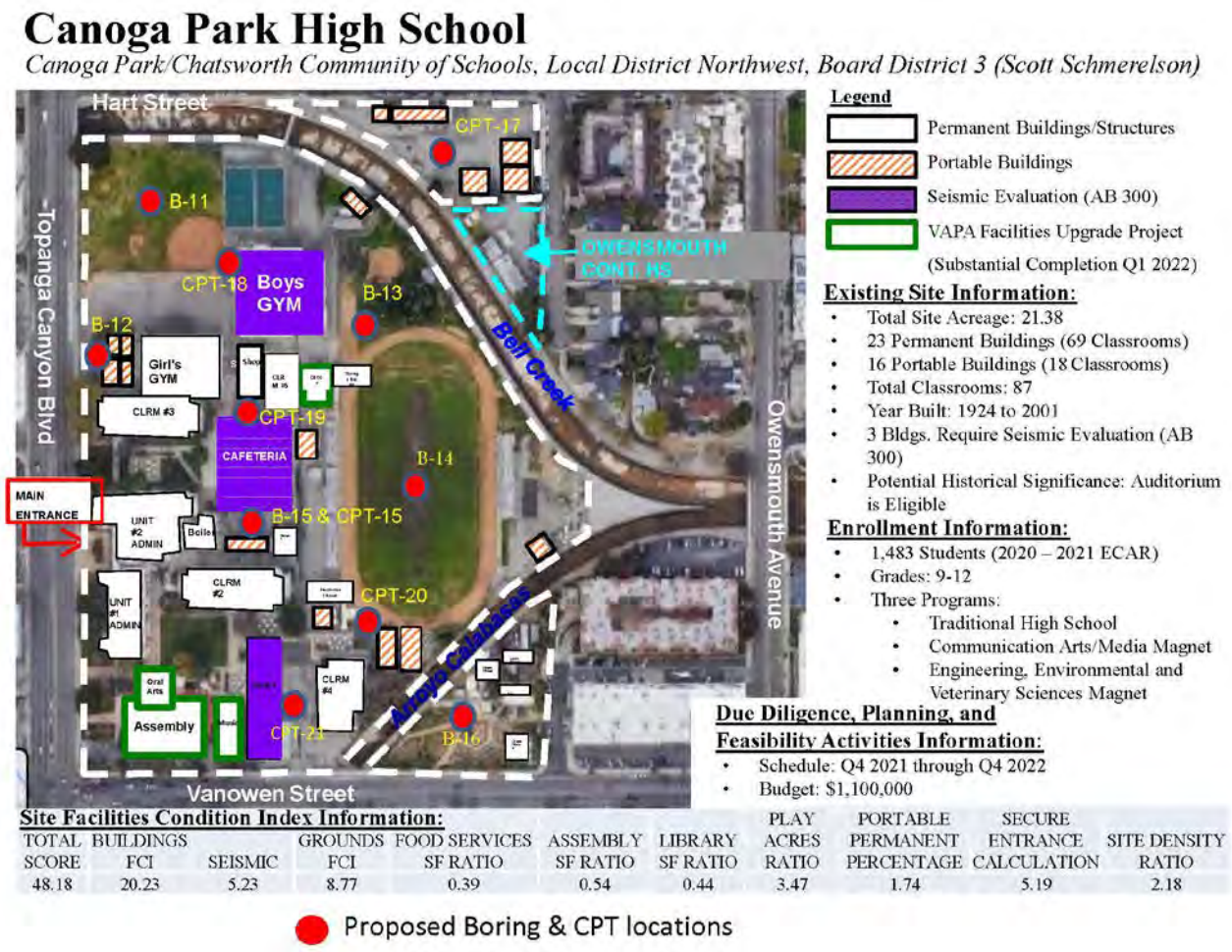


Figure 2- Soil Sample Locations, Canoga Park High School, 6850 CA-27, Canoga Park, CA 91303

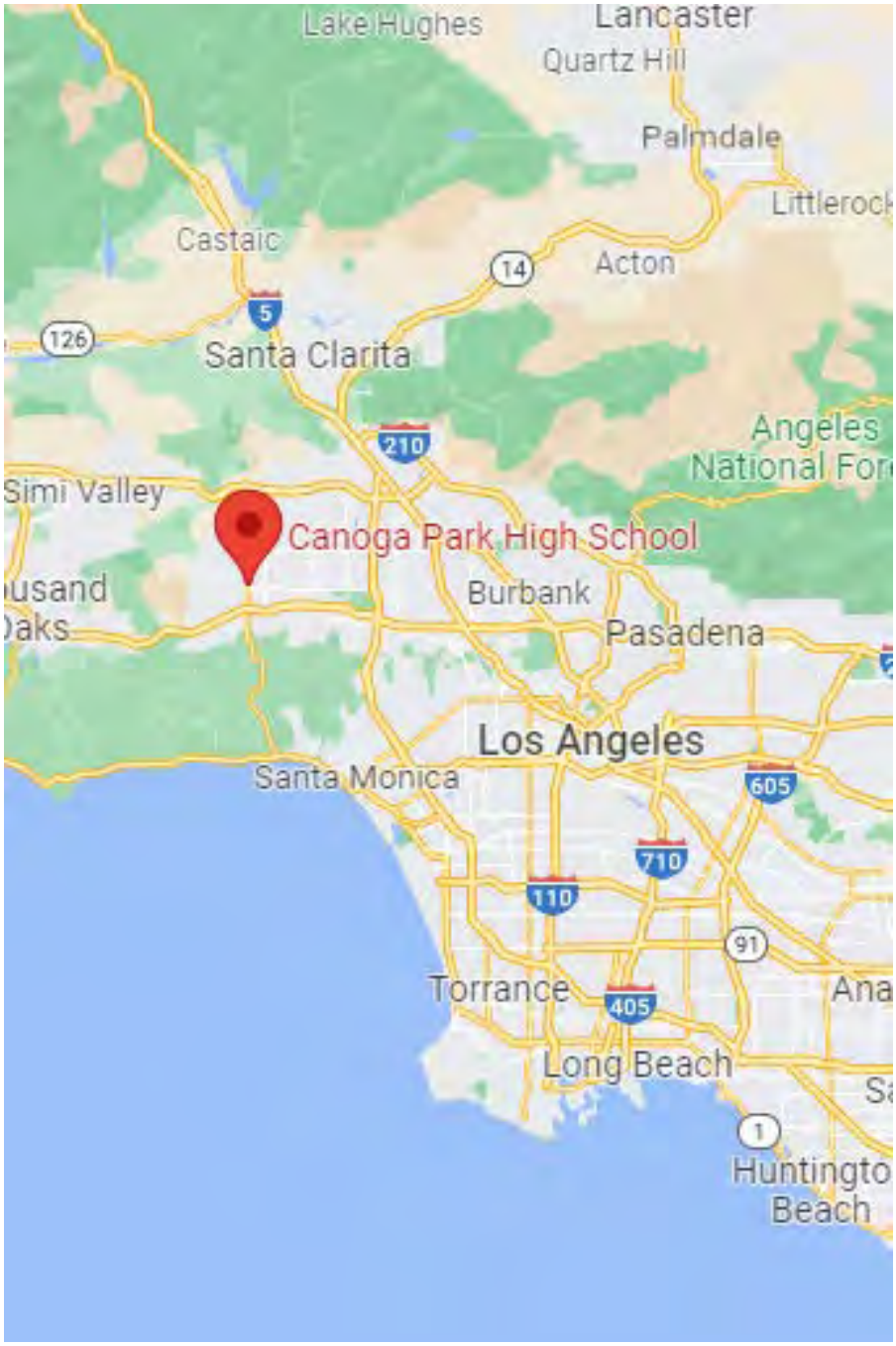


Figure 3- Vicinity Map, Canoga Park High School, 6850 CA-27, Canoga Park, CA 91303

5 Corrosion Basics

In general, the corrosion rate of metals in soil depends on the electrical resistivity, the elemental composition, and the oxygen content of the soil. Soils can vary greatly from one acre to the next, especially at earthquake faults. The better a soil is for farming; the easier it will be for corrosion to take place. Expansive soils should be considered disturbed simply because of their nature from dry to wet seasons.

5.1 Pourbaix Diagram – In regards to a material's environment

All metals are unique and have a weakness. Some metals do not like acidic (low pH) environments. Some metals do not like alkaline (high pH) environments. Some metals don't like either high or low pH environments such as aluminum. These are called amphoteric materials. Some metals become passivated and do not corrode at high pH environments such as steel. These characteristics are documented in Marcel Pourbaix's book "Atlas of electrochemical equilibria in aqueous solutions"

In the mid 1900's, Marcel Pourbaix developed the Pourbaix diagram which describes a metal's reaction to an environment dependent on pH and voltage conditions. It describes when a metal remains passive (non-corroding) and in which conditions metals become soluble (corrode). Steels are passive in pH over 12 such as the condition when it is encased in cement. If the cement were to carbonate and its pH reduce to below 12, the cement would no longer be able to act as a corrosion inhibitor and the steel will begin to corrode when moist.

Some metals such as aluminum are amphoteric, meaning that they react with acids and bases. They can corrode in low pH and in high pH conditions. Aluminum alloys are generally passive within a pH of 4 and 8.5 but will corrode outside of those ranges. This is why aluminum cannot be embedded in cement and why brick mortar should not be laid against an aluminum window frame without a protective barrier between them.

5.2 Galvanic Series – In regards to dissimilar metal connections

All metals have a natural electrical potential. This electrical potential is measured using a high impedance voltmeter connected to the metal being tested and with the common lead connected to a copper copper-sulfate reference electrode (CSE) in water or soil. There are many types of reference electrodes. In laboratory measurements, a Standard Hydrogen Electrode (SHE) is commonly used. When different metal alloys are tested they can be ranked into an order from most noble (less corrosion), to least noble (more active corrosion). When a more noble metal is connected to a less noble metal, the less noble metal will become an anode and sacrifice itself through corrosion providing corrosion protection to the more noble metal. This hierarchy is known as the galvanic series named after Luigi Galvani whose experiments with electricity and muscles led Alessandro Volta to discover the reactions between dissimilar metals leading to the early battery. The greater the voltage difference between two metals, the faster the corrosion rate will be.

Table 1- Dissimilar Metal Corrosion Risk

	Zinc	Galvanized Steel	Aluminum	Cast Iron	Lead	Mild Steel	Tin	Copper	Stainless Steel
Zinc	None	Low	Medium	High	High	High	High	High	High
Galvanized Steel	Low	None	Medium	Medium	Medium	High	High	High	High
Aluminum	Medium	Medium	None	Medium	Medium	Medium	Medium	High	High
Cast Iron	High	Medium	Medium	None	Low	Low	Low	Medium	Medium
Lead	High	Medium	Medium	Low	None	Low	Low	Medium	Medium
Mild Steel	High	High	Medium	Low	Low	None	Low	Medium	Medium
Tin	High	High	Medium	Low	Low	Low	None	Medium	Medium
Copper	High	High	High	Medium	Medium	Medium	Medium	None	Low
Stainless Steel	High	High	High	Medium	Medium	Medium	Medium	Low	None

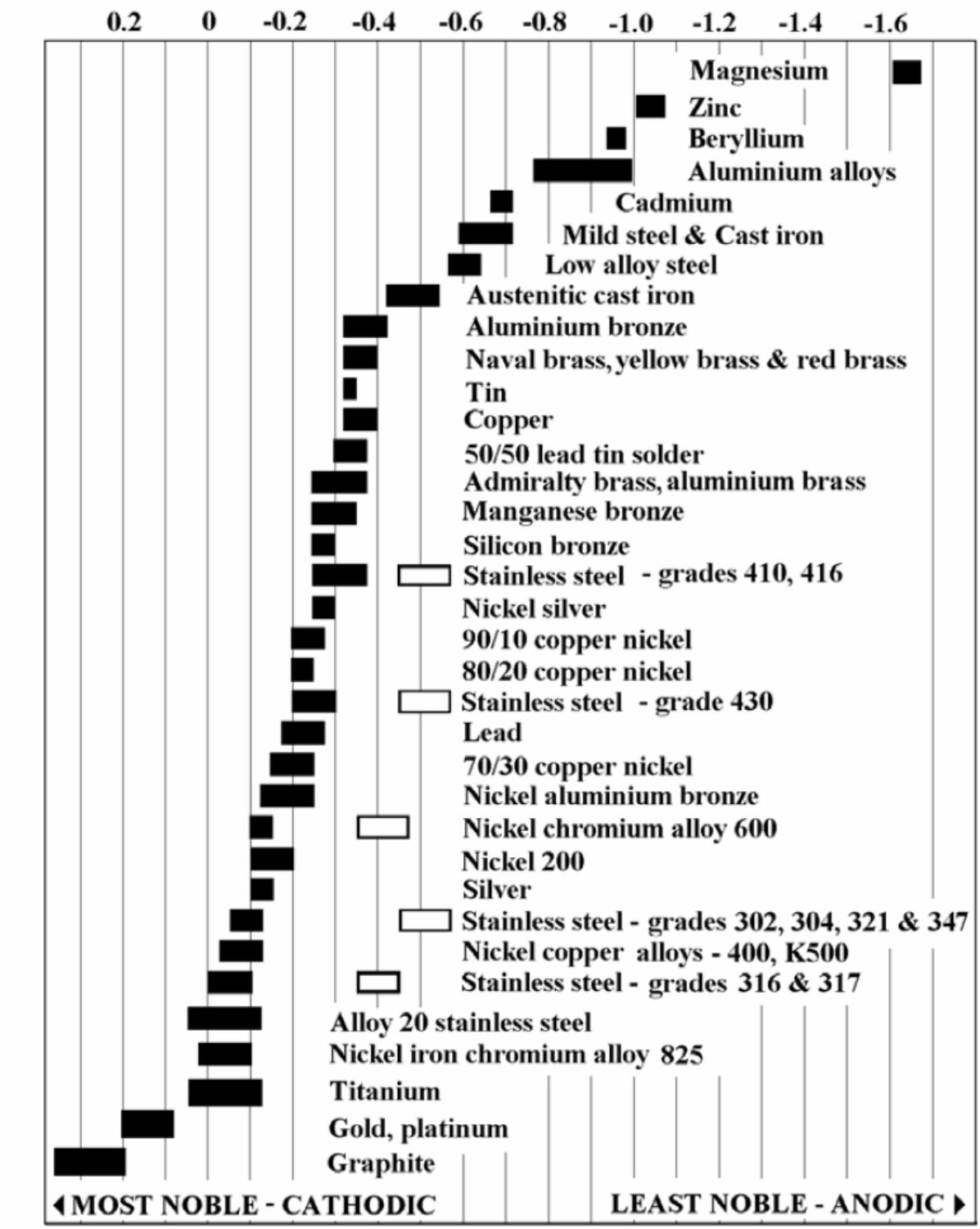
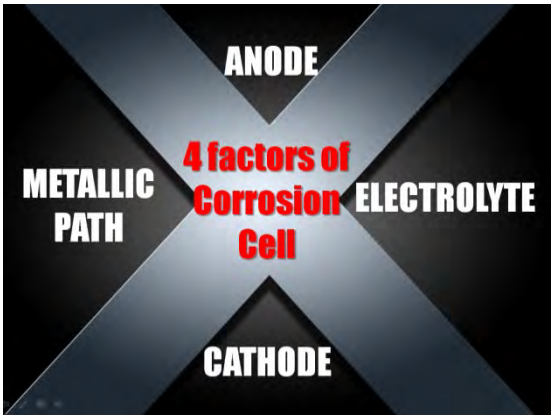


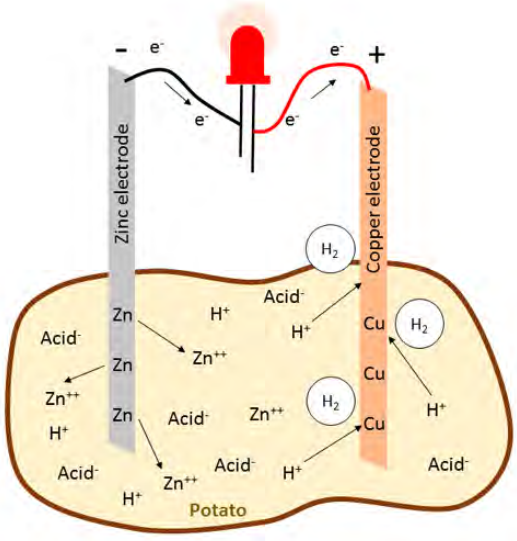
Figure 4 - Galvanic series of metals relative to CSE half cell.

5.3 Corrosion Cell

In order for corrosion to occur, four factors must be present. (1) The anode (2) the cathode (3) the electrolyte and (4) the metallic or conductive path joining the anode and the cathode. If any one of these is removed, corrosion activity will stop. This is how a simple battery produces electricity. An example of a non-metallic yet conductive material is graphite. Graphite is similar in nobility to gold. Do not connect graphite to anything in moist environments.



The anode is where the corrosion occurs, and the cathode is the corrosion free material. Sometimes the anode and cathode are different materials connected by a wire or union. Sometimes the anode and cathode are on the same pipe with one area of the pipe in a low oxygen zone while the other part of the pipe is in a high oxygen zone. A good example of this is a post in the ocean that is repeatedly splashed. Deep underwater, corrosion is minimal, but at the splash zone, the corrosion rate is greatest.



Low oxygen zones and crevices can also harbor corrosive bacteria which in moist environments will lead to corrosion. This is why pipes are laid on backfill instead of directly on native cut soil in a trench. Filling a trench slightly with backfill before installing pipe then finishing the backfill creates a uniform environment around the entire surface of the pipe.

The electrolyte is generally water, seawater, or moist soil which allows for the transfer of ions and electrical current. Pure water itself is not very conductive. It is when salts and minerals dissolve into pure water that it becomes a good conductor of electricity and chemical reactions. Metal ores are turned into metal alloys which we use in construction. They naturally want to return to their natural metal ore state but it requires energy to return to it. The corrosion cell, creates the energy needed to return a metal to its natural ore state.

The metallic or conductive path can be a wire or coupling. Examples are steel threaded into a copper joint, or an electrician grounding equipment to steel pipes inadvertently connecting electrical grid copper grounding systems to steel or iron underground pipes.

The ratio of surface area between the anode and the cathode is very important. If the anode is very large, and the cathode is very small, then the corrosion rate will be very small and the anode may live a long life. An example of this is when short copper laterals were connected to a large and long steel pipeline. The steel had plenty of surface area to spread the copper's attack, thus corrosion was not

noticeable. But if the copper was the large pipe and the steel the short laterals, the steel would corrode at an amazing rate.

5.4 Design Considerations to Avoid Corrosion

The following recommendations are based upon typical observations and conclusions made by forensic engineers in construction defect lawsuits and NACE International (Corrosion Society) recommendations.

5.4.1 Testing Soil Factors (Resistivity, pH, REDOX, SO, CL, NO3, NH3)

As previously mentioned, different factors can cause corrosion. The most useful and common test for categorizing a soil's corrosivity has been the measure of soil resistivity which is typically measured in units of (ohm-cm) by corrosion engineers and geologists. Soil resistivity is the ability of soil to conduct or resist electrical currents and ion transfer. The lower the soil resistivity, the more conductive and corrosive it is. The following are "generally" accepted categories but keep in mind, the question is not "Is my soil corrosive?", the question should be, "What is my soil corrosive to?" and to answer that question, soil resistivity and chemistry must be tested. Though **soil resistivity is a good corrosivity indicator for steel materials, high chlorides or other corrosive elements do not always lower soil resistivity, thus if you don't test for chlorides and other water soluble salts, you can get an unpleasant surprise.** The largest contributing factor to a soil's electrical resistivity is its clay, mineral, metal, or sand make-up.

Table 2 - Corrosion Basics- An Introduction, NACE, 1984, pg 191

(Ohm-cm)	Corrosivity Description
0-500	Very Corrosive
500-1,000	Corrosive
1,000-2,000	Moderately Corrosive
2,000-10,000	Mildly Corrosive
Above 10,000	Progressively less corrosive

Testing a soil's pH provides information to reference the Pourbaix diagram of specific metals. Some elements such as ammonia and nitrates can create localized alkaline conditions which will greatly affect amphoteric materials such as aluminum and copper alloys.

Excess sulfates can break-down the structural integrity of cement and high concentrations of chlorides can overcome cement's corrosion inhibiting effect on encased ferrous metals and break down protective passivated surface layers on stainless steels and aluminum.

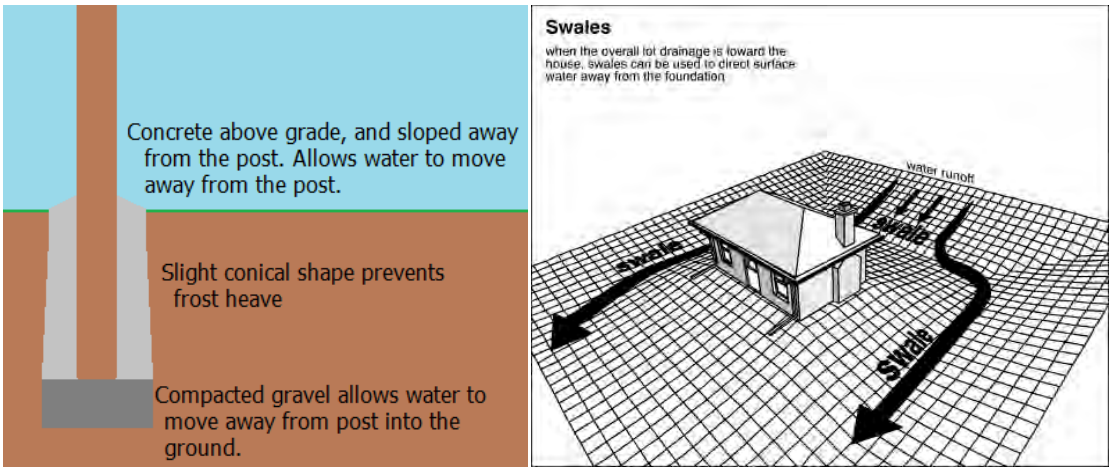
Corrosive bacteria are everywhere but can multiply significantly in anaerobic conditions with plentiful sulfates. The bacteria themselves do not eat the metal but their by-products can form corrosive sulfuric acids. The probability of corrosive bacteria is tested by measuring a soil's oxidation-reduction (REDOX) electro-potential and by testing for the presence of sulfides.

Only by testing a soil's chemistry for minimum resistivity, pH, chlorides, sulfates, sulfides, ammonia, nitrate, and redox potential can one have the information to evaluate the corrosion risk to construction materials such as steel, stainless steel, galvanized steel, iron, copper, brass, aluminum, and concrete.

5.4.2 Proper Drainage

It cannot be emphasized enough that pooled stagnant water on metals will eventually lead to corrosion. This stands for internal corrosion and external corrosion situations. In soils, providing good drainage will lower soil moisture content reducing corrosion rates. Attention to properly sealing polyethylene wraps around valves and piping will avoid water intrusion which would allow water to pool against metals. Above ground structures should not have cupped or flat surfaces that will pond water after rain or irrigation events.

Buildings typically are built on pads and have swales when constructed to drain water away from buildings directing it towards an acceptable exit point such as a driveway where it continues draining to a local storm drain. Many homeowners, landscapers and flatwork contractors appear to not be aware of this and destroy swales during remodeling. The majority of garage floor and finished grade elevations are governed by drainage during design.[14,15]



5.4.3 Avoiding Crevices

Crevices are excellent locations for oxygen differential induced corrosion cells to begin. Crevices can also harbor corrosive bacteria even in the most chemically treated waters. Crevices will also gather salts. If water's total alkalinity is low, its ability to maintain a stable pH can also become more difficult within a crevice allowing the pH to drop to acidic levels continuing a pitting process. Welds in extremely corrosive environments should be complete and well filleted without sharp edges to avoid crevices. Sharp edges should be avoided to allow uniform coating of protective epoxy. Detection of crevices in welds should be treated immediately. If pressures and loads are low, sanding and rewelding or epoxy patching can be suitable repairs. Damaged coatings can usually be repaired with Direct to Metal paints. **Scratches and crevice corrosion are like infections, they should not be left to fester or the infection will spread making things worse.**

[14] https://www.fencedaddy.com/blogs/tips-and-tricks/132606467-how-to-repair-a-broken-fence-post

[15] http://southdownstudio.co.uk/problme-drainage-maison.html

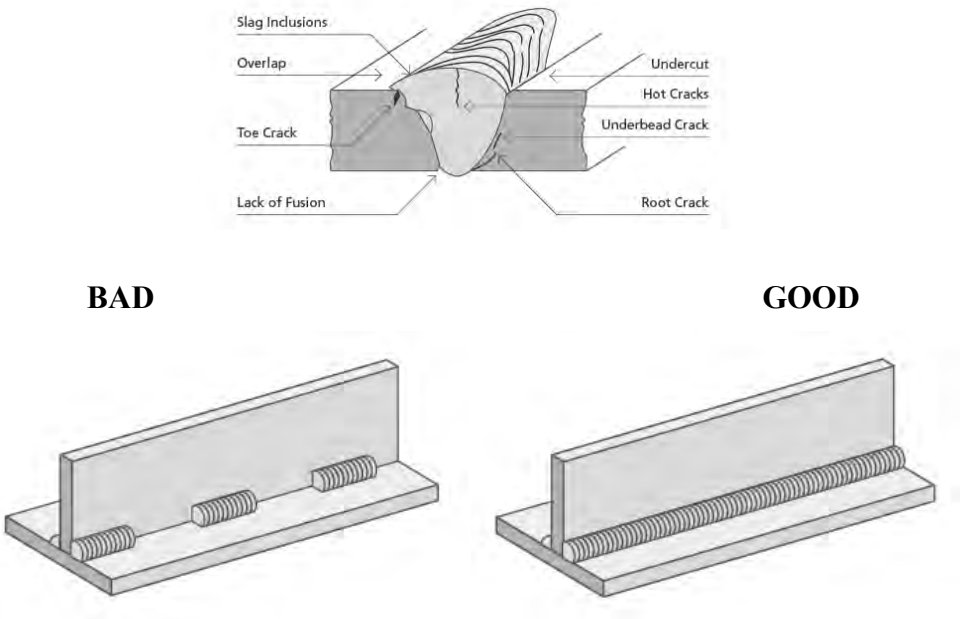


Figure 5 Defects which form weld crevices[16]

5.4.4 Coatings and Cathodic Protection

When faced with a corrosive environment, the best defense against corrosion is removing the electrolyte from the corrosion cell by applying coatings to separate the metal from the soil. During construction and installation, there is always some scratch or damage made to a coating. NACE training recommends that coatings be used as a first line of defense and that sacrificial or impressed current cathodic protection is used as a 2nd line of defense to protect the scratched areas. Use of a good coating dramatically reduces the amount of anodes a CP system would need. If CP is not installed as a 2nd line of defense in an extremely corrosive environment, the small scratched zones will suffer accelerated corrosion. CP details such as anode installation instructions must be designed by corrosion engineers or vessel manufacturers on a per project basis because it depends on electrolyte resistivity, surface area of infrastructure to be protected, and system geometry.

There are two types of cathodic protection systems, a Galvanic Anode Cathodic Protection (GACP) system and an Impressed Current Cathodic Protection (ICCP) system. A Galvanic Anode Cathodic Protection (GACP) system is simpler to install and maintain than an Impressed Current Cathodic Protection (ICCP) system. To protect the metals, they must all be electrically continuous to each other. In a GACP system, sacrificial zinc or magnesium anodes are then buried at locations per the CP design and connected by wire to a structure at various points in system. At the connection points, a wire connecting to the structure and the wire from the anode are joined in a Cathodic Protection Test Station hand hole which looks similar in size and shape to an irrigation valve pull box. By coating the underground structures, one can reduce the number of anodes needed to provide cathodic protection by 80% in many instances.

An ICCP system requires a power source, a rectifier, significantly more trenching, and more expensive type anodes. These systems are typically specified when bare metal is requiring protection

[16] http://www.daroproducts.co.uk/makes-good-weld/

in severely corrosive environments in which galvanic anodes do not provide enough power to polarize infrastructure to -850 mV structure-to-soil potential or be able to create a 100 mV potential shift as required by NACE SP169 to control corrosion. In severely corrosive environments, a GACP system simply may not last a required lifetime due to the high rate of consumption of the sacrificial anodes. ICCP system rectifiers must be inspected and adjusted quarterly or at a minimum bi-annually per NACE recommendations. Different anode installations may be possible but for large sites, anodes are placed evenly throughout the site and all anode wires must be trenched to the rectifier. For a large site, it may be beneficial to use two or more rectifiers to reduce wire lengths or trenching.

To simplify, a GACP system can be installed and practically forgotten with minor trenching because the anodes can be installed very close to the structures. An ICCP system must be inspected annually and anode wires run back to the rectifier which itself connects to the pile system. If any type of trenching or development is expected to occur at the site during the life of the site, it is a good idea to inspect the anode connections once a year to make sure wires are not cut and that the infrastructure is still being provided adequate protection. A common situation that occurs with ICCP systems is that a contractor accidently cuts the wires during construction then reconnects them incorrectly, turning the once cathode, into a sacrificing anode.

Design of a cathodic protection system protecting against soil side corrosion requires that Wenner Four Pin ground resistance measurements per ASTM G57 be performed by corrosion engineers at various locations of the site to determine the best depths and locations for anode installations. Ideally, a sample pile is installed and experiments determining current requirement are conducted. Using this data, the decision is made whether a GACP system is feasible or if an ICCP must be used.

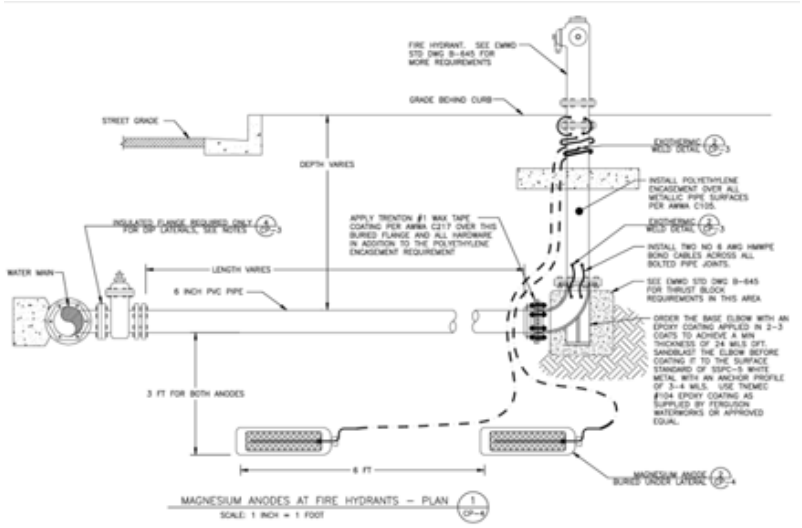


Figure 6 Sample anode design for fire hydrant underground piping

Vessels such as water tanks will have protective interior coatings and anodes to protect the interior surfaces. Anodes can also be buried on site and connected to system skid supports to protect the metal in contact with soil. A good example of a vessel cathodic protection system exists in all home water heaters which contain sacrificial aluminum or magnesium anodes. In environments that exceed 140F, zinc anodes cannot be used with carbon steel because they become the aggressor (Cathodic) to

the steel instead of sacrificial (anodic). Anodes in vessels containing extremely brackish water with chloride levels over 2,000 ppm should inspect or change out their anodes every 6 months.

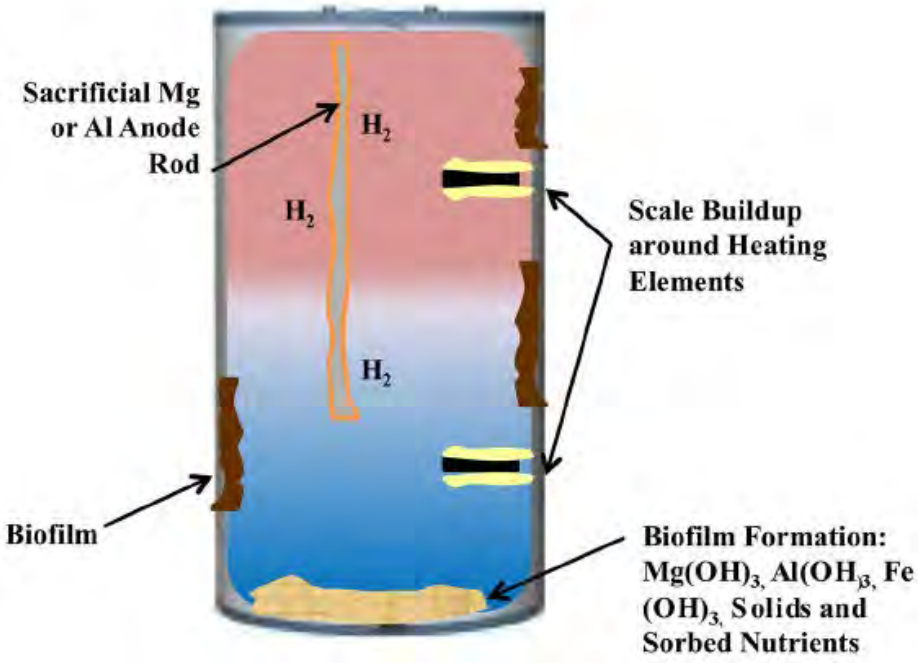


Figure 7 Cross section of boiler with anode

Cathodic protection can only protect a few diameters within a pipeline thus it is not recommended for small diameter pipelines and tubing internal corrosion protection. Anodes are like a lamp shining light in a room. They can only protect along their line of sight.

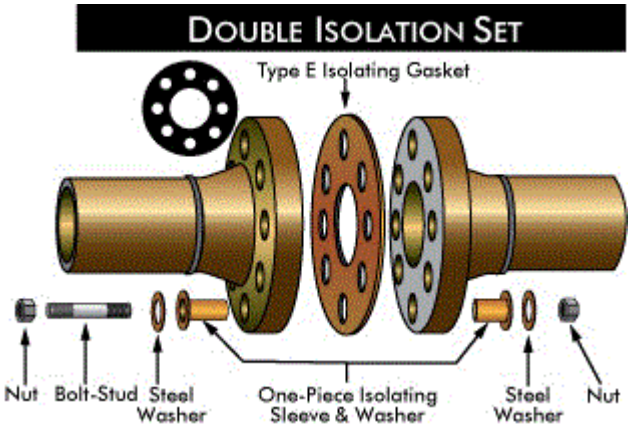
5.4.5 Good Electrical Continuity

In order for cathodic protection to protect a long pipeline or system of pipes from external soil side corrosion, they must all be electrically continuous to each other so that the electric current from the anode can travel along the pipes, then return through the earth to the anode. Electrical continuity is achieved by welding or pin brazing #8 AWG copper strand bond cable to the end of pipe sticks which have rubber gaskets at bell and spigots. If steel pipes are joined by full weld, bonding wires are not needed.

Electrical continuity between dissimilar metals is not desirable. Isolation joints or di-electric unions should be installed between dissimilar metals, such as steel pipes connecting to a brass valve per NACE SP0286. Bonding wires should then be welded onto the steel pipes by-passing the brass valve so that the cathodic protection system's current can continue to travel along the steel piping but isolate the brass valve from the steel pipeline. Another option would be to provide a separate cathodic protection system for steel pipes on both sides of the brass valve.

Typically, water heater inlets and outlets, gas meters and water meters have dielectric unions installed in them to separate utility property from homeowner property. This also protects them in the case that a home owner somehow electrically connects water pipes or gas pipes to a neighborhood electrical grounding system which can potentially have less noble steel in soil now connected to much

more noble copper in soil which will then create a corrosion cell. This is exactly how a lemon powered clock works when a galvanized zinc nail and a steel nail are inserted into a lemon then connected to a clock. The clock is powered by the corrosion cell created.



5.4.6 Bad Electrical Continuity

Bad electrical continuity is when two different materials or systems are made electrically continuous (aka shorted) when they were not designed to be electrically continuous. Examples of this would be when gas lines are shorted to water lines or to electrical grounding beds. Very often, fire risers are shorted to electrical grounding systems, and water pipes at business parks. Since fire risers usually have a very short ductile iron pipe in the ground which connects to PVC pipe systems, they tend to experience leaks after 7 to 10 years of being attacked by underground copper systems.

It is absolutely imperative that any copper water piping or other metal conduits penetrating cement slab or footings, not come in contact with the reinforcing steel or post-tensioning tendons to avoid creation of galvanic corrosion cells.

5.4.7 Corrosion Test Stations

Corrosion test stations should be installed every 1,000 feet along pipelines in order to measure corrosion activity in the future. For a simple pipeline, two #8 AWG copper strand bond cable welded or pin brazed onto the pipeline are run up to finished grade and left in a hand hole. Corrosion test stations are used to measure pipe-to-soil electro potential relative to a copper copper-sulfate reference electrode to determine if the pipe is experiencing significant corrosion activity. By measuring test stations along a pipeline, hot spots can be determined, if any. The wires also allow for electrical continuity testing, condition assessment, and a multitude of other types of tests.

At isolation joints and pipe casings, two wires should be welded to either side of the isolation joint for a total of 4 wires to be brought up to the hand hole. This allows for future tests of the isolation joint, casing separation confirmation, and pipe-to-soil potential readings during corrosion surveys.

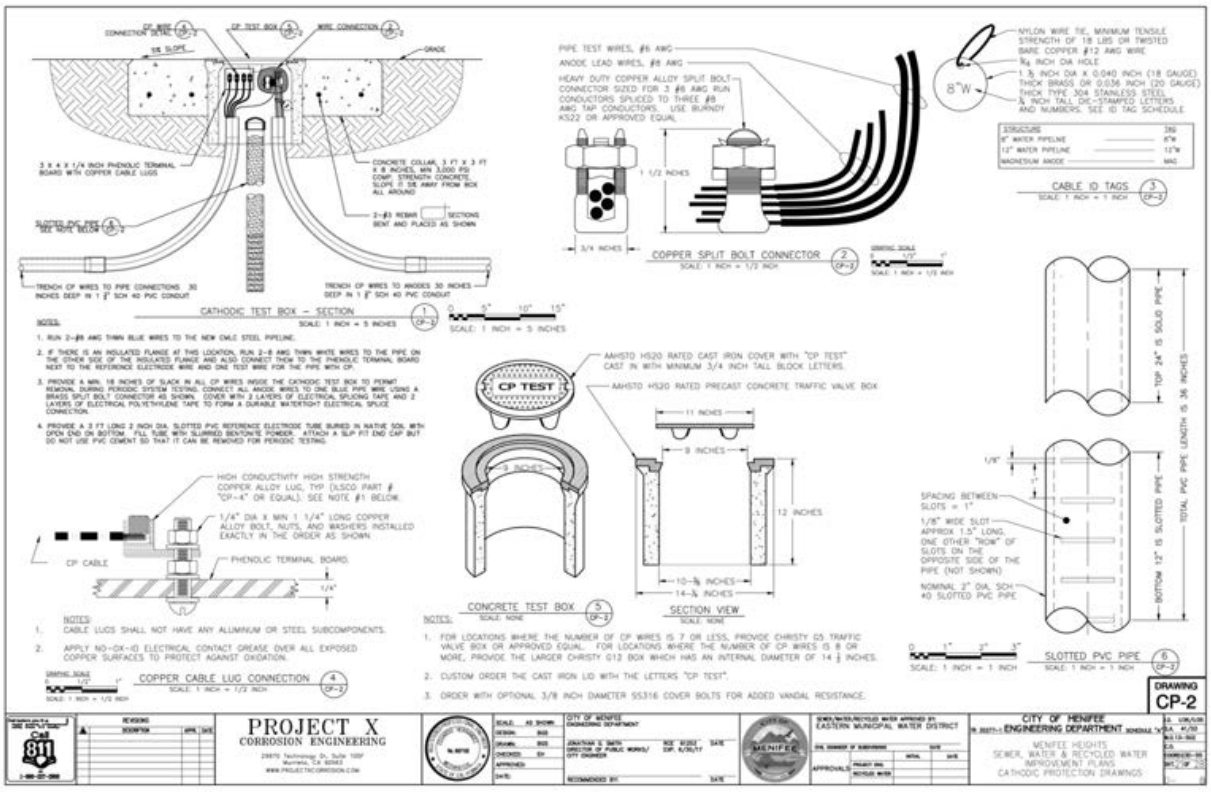


Figure 8 Sample of corrosion test station specification drawing

5.4.8 Excess Flux in Plumbing

Investigations of internal corrosion of domestic water plumbing systems almost always finds excess flux to be the cause of internal pitting of copper pipes. Some people believe that there is no such thing as too much flux. Flux runs have been observed to travel up to 20 feet with pitting occurring along the flux run. Flushing a soldered plumbing system with hot water for 15 minutes can remove significant amounts of excess flux left in the pipes. If a plumbing system is expected to be stagnant for some time, it should be drained to avoid stagnant water conditions that can lead to pitting and dezincification of yellow brasses.

5.4.9 Landscapers and Irrigation Sprinkler Systems

A significant amount of corrosion of fences is due to landscaper tools scratching fence coatings and irrigation sprinklers spraying these damaged fences. Recycled water typically has a higher salt content than potable drinking water, meaning that it is more corrosive than regular tap water. The same risk from damage and water spray exists for above ground pipe valves and backflow preventers. Fiber glass covers, cages, and cement footings have worked well to keep tools at an arm's length.

5.4.10 Roof Drainage splash zones

Unbelievably, even the location where your roof drain splashes down can matter. We have seen drainage from a home's roof valley fall directly down onto a gas meter causing it's piping to corrode at an accelerated rate reaching 50% wall thickness within 4 years. It is the same effect as a splash

zone in the ocean or in a pool which has a lot of oxygen and agitation that can remove material as it corrodes.

5.4.11 Stray Current Sources

Stray currents which cause material loss when jumping off of metals may originate from direct-current distribution lines, substations, or street railway systems, etc., and flow into a pipe system or other steel structure. Alternating currents may occasionally cause corrosion. The corrosion resulting from stray currents (external sources) is similar to that from galvanic cells (which generate their own current) but different remedial measures may be indicated. In the electrolyte and at the metal-electrolyte interfaces, chemical and electrical reactions occur and are the same as those in the galvanic cell; specifically, the corroding metal is again considered to be the anode from which current leaves to flow to the cathode. Soil and water characteristics affect the corrosion rate in the same manner as with galvanic-type corrosion.

However, stray current strengths may be much higher than those produced by galvanic cells and, as a consequence, corrosion may be much more rapid. Another difference between galvanic-type currents and stray currents is that the latter are more likely to operate over long distances since the anode and cathode are more likely to be remotely separated from one another. Seeking the path of least resistance, the stray current from a foreign installation may travel along a pipeline causing severe corrosion where it leaves the line. Knowing when stray currents are present becomes highly important when remedial measures are undertaken since a simple sacrificial anode system is likely to be ineffectual in preventing corrosion under such circumstances.[17] Stray currents can be avoided by installing proper electrical shielding, installation of isolation joints, or installation of sacrificial jump off anodes at crossings near protected structures such as metal gas pipelines or electrical feeders.

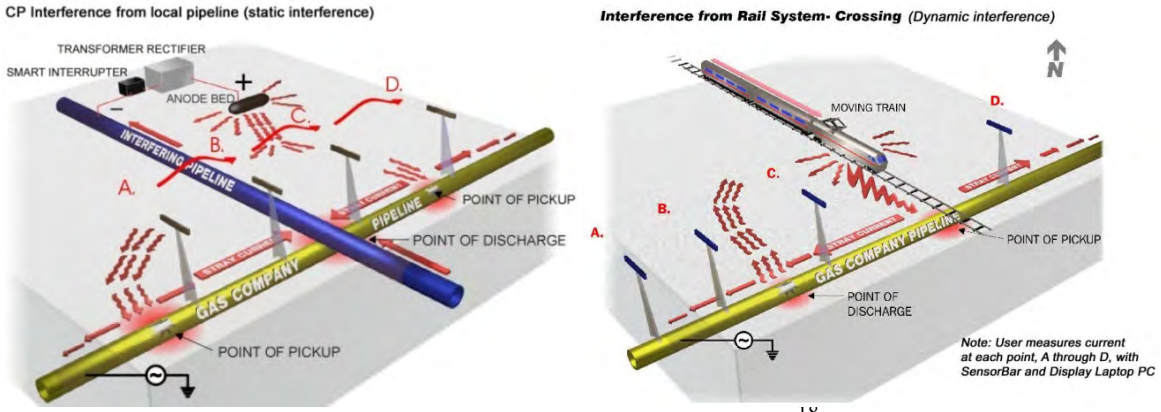


Figure 9 Examples of Stray Current[18]

[17] http://corrosion-doctors.org/StrayCurrent/Introduction.htm

[18] http://www.eastcomassoc.com/

APPENDIX C

SEISMICALLY INDUCED SETTLEMENT ANALYSES

U.S. Geological Survey - Earthquake Hazards Program

Unified Hazard Tool

Please do not use this tool to obtain ground motion parameter values for the design code reference documents covered by the U.S. Seismic Design Maps web tools (e.g., the International Building Code and the ASCE 7 or 41 Standard). The values returned by the two applications are not identical.

Input

Edition

Dynamic: Conterminous U.S. 2014 (u…

Spectral Period

Peak Ground Acceleration

Latitude

Decimal degrees

34.19550007223612

Time Horizon

Return period in years

475

Longitude

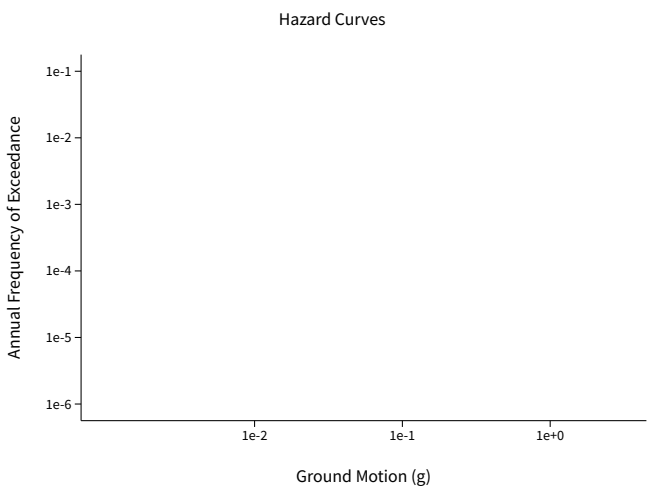
Decimal degrees, negative values for western longitudes

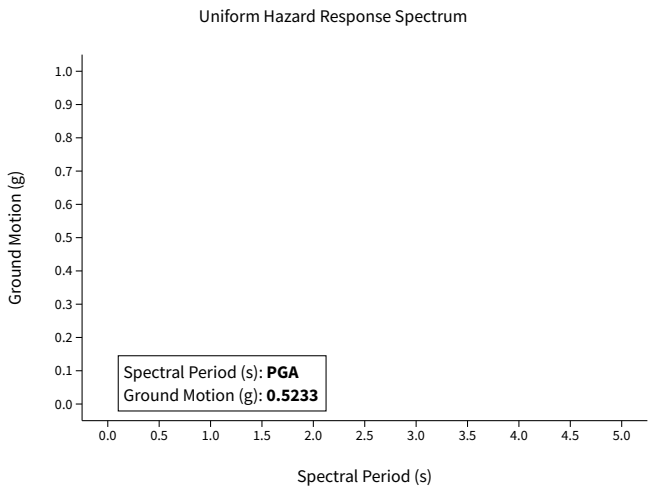
-118.60449753371914

Site Class

259 m/s (Site class D)

Hazard Curve



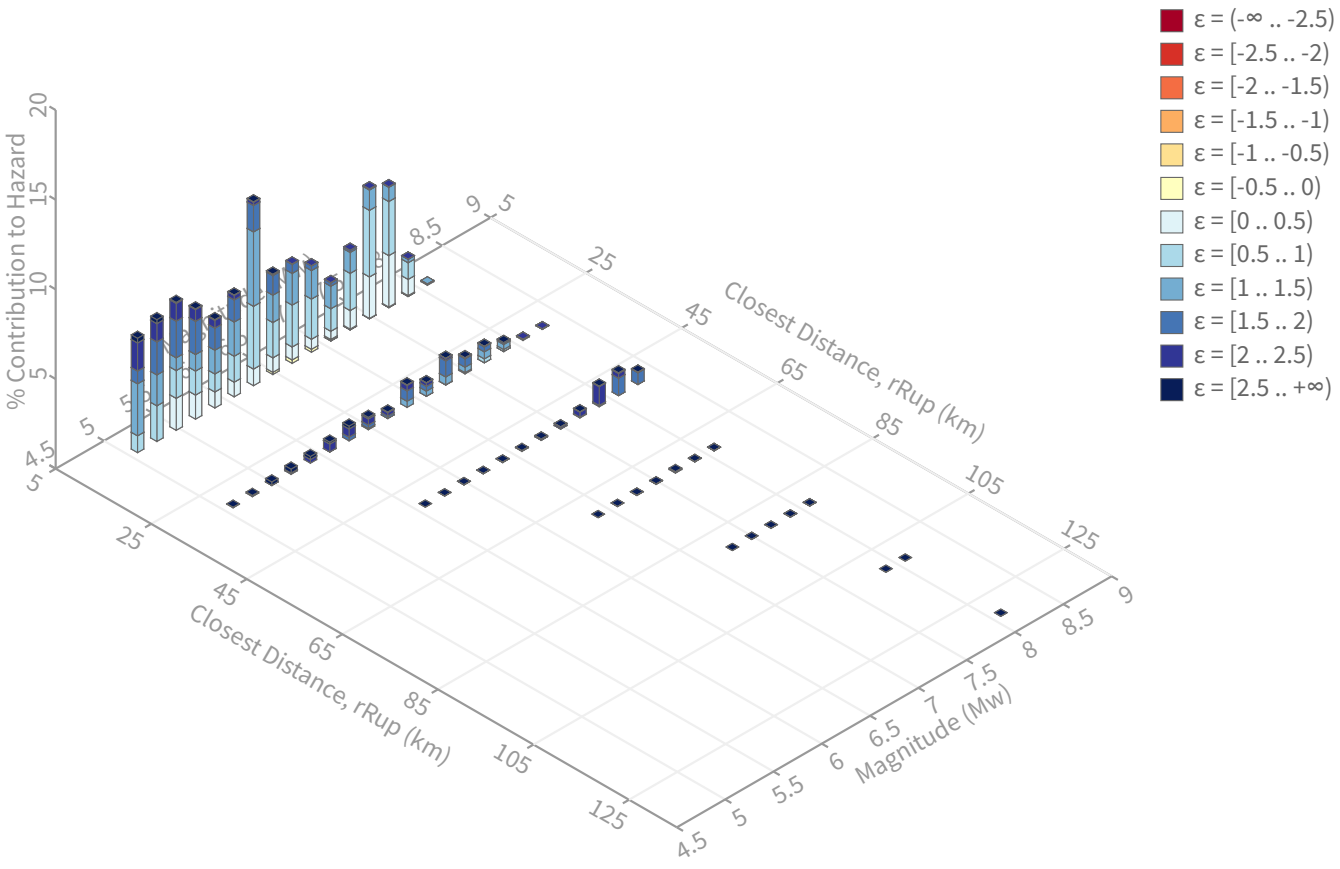


View Raw Data

Deaggregation

Component

Total



Summary statistics for, Deaggregation: Total

Deaggregation targets

Return period: 475 yrs
Exceedance rate: 0.0021052632 yr^{-1}
PGA ground motion: 0.52328652 g

Recovered targets

Return period: 515.85418 yrs
Exceedance rate: 0.0019385323 yr^{-1}

Totals

Binned: 100 %
Residual: 0 %
Trace: 0.12 %

Mean (over all sources)

m: 6.5
r: 14.13 km
ε_0: 1.15 σ

Mode (largest m-r bin)

m: 6.3
r: 11.94 km
ε_0: 1.12 σ
Contribution: 10.24 %

Mode (largest m-r-ε_0 bin)

m: 6.32
r: 12.45 km
ε_0: 1.31 σ
Contribution: 4.15 %

Discretization

r: min = 0.0, max = 1000.0, Δ = 20.0 km
m: min = 4.4, max = 9.4, Δ = 0.2
ε: min = -3.0, max = 3.0, Δ = 0.5 σ

Epsilon keys

ε0: [-∞ .. -2.5)
ε1: [-2.5 .. -2.0)
ε2: [-2.0 .. -1.5)
ε3: [-1.5 .. -1.0)
ε4: [-1.0 .. -0.5)
ε5: [-0.5 .. 0.0)
ε6: [0.0 .. 0.5)
ε7: [0.5 .. 1.0)
ε8: [1.0 .. 1.5)
ε9: [1.5 .. 2.0)
ε10: [2.0 .. 2.5)
ε11: [2.5 .. +∞]

Deaggregation Contributors

Source Set ↳ Source	Type	r	m	ε_0	lon	lat	az	%
UC33brAvg_FM32	System							25.95
Santa Susana alt 2 [3]		13.36	7.15	0.91	118.583°W	34.314°N	8.42	6.37
Santa Susana East (connector) [0]		14.59	6.33	1.16	118.499°W	34.314°N	36.09	2.23
Mission Hills 2011 [1]		10.79	7.15	0.79	118.556°W	34.283°N	24.62	1.90
Northridge Hills [0]		10.62	7.66	0.57	118.554°W	34.280°N	26.41	1.61
San Andreas (Mojave S) [2]		54.61	8.05	2.01	118.361°W	34.643°N	24.12	1.56
Compton [4]		15.58	7.57	0.59	118.608°W	34.022°N	180.94	1.52
Northridge [2]		16.68	7.54	0.57	118.550°W	34.343°N	16.83	1.31
Anacapa-Dume alt 2 [0]		14.16	7.32	0.65	118.554°W	34.031°N	165.70	1.16
Simi-Santa Rosa [0]		15.44	6.89	1.24	118.698°W	34.309°N	325.94	1.03
UC33brAvg_FM31 (opt)	Grid							25.37
PointSourceFinite: -118.604, 34.200		4.88	5.67	0.69	118.605°W	34.200°N	0.00	5.43
PointSourceFinite: -118.604, 34.200		4.88	5.67	0.69	118.605°W	34.200°N	0.00	5.43
PointSourceFinite: -118.604, 34.281		9.98	5.84	1.37	118.605°W	34.281°N	0.00	1.32
PointSourceFinite: -118.604, 34.281		9.98	5.84	1.37	118.605°W	34.281°N	0.00	1.32
PointSourceFinite: -118.604, 34.272		9.04	5.90	1.22	118.605°W	34.272°N	0.00	1.31
PointSourceFinite: -118.604, 34.272		9.04	5.90	1.22	118.605°W	34.272°N	0.00	1.31
PointSourceFinite: -118.604, 34.299		11.65	5.82	1.57	118.605°W	34.299°N	0.00	1.28
PointSourceFinite: -118.604, 34.299		11.65	5.82	1.57	118.605°W	34.299°N	0.00	1.28
UC33brAvg_FM32 (opt)	Grid							25.34
PointSourceFinite: -118.604, 34.200		4.88	5.67	0.69	118.605°W	34.200°N	0.00	5.44
PointSourceFinite: -118.604, 34.200		4.88	5.67	0.69	118.605°W	34.200°N	0.00	5.44
PointSourceFinite: -118.604, 34.272		9.04	5.90	1.22	118.605°W	34.272°N	0.00	1.31
PointSourceFinite: -118.604, 34.272		9.04	5.90	1.22	118.605°W	34.272°N	0.00	1.31
PointSourceFinite: -118.604, 34.281		9.97	5.84	1.37	118.605°W	34.281°N	0.00	1.30
PointSourceFinite: -118.604, 34.281		9.97	5.84	1.37	118.605°W	34.281°N	0.00	1.30
PointSourceFinite: -118.604, 34.299		11.75	5.79	1.60	118.605°W	34.299°N	0.00	1.27
PointSourceFinite: -118.604, 34.299		11.75	5.79	1.60	118.605°W	34.299°N	0.00	1.27
UC33brAvg_FM31	System							23.34
Santa Susana alt 1 [0]		14.04	7.34	0.80	118.544°W	34.310°N	23.57	4.61
Northridge [2]		16.68	7.31	0.58	118.550°W	34.343°N	16.83	2.48
Mission Hills 2011 [1]		10.79	6.52	1.17	118.556°W	34.283°N	24.62	2.45
Northridge Hills [0]		10.62	7.66	0.57	118.554°W	34.280°N	26.41	1.59
San Andreas (Mojave S) [2]		54.61	8.05	2.00	118.361°W	34.643°N	24.12	1.56
Compton [4]		15.58	7.41	0.64	118.608°W	34.022°N	180.94	1.42
Simi-Santa Rosa [0]		15.44	6.99	1.09	118.698°W	34.309°N	325.94	1.38
Santa Susana East (connector) [0]		14.59	6.30	1.17	118.499°W	34.314°N	36.09	1.16

U.S. Geological Survey - Earthquake Hazards Program

Unified Hazard Tool

Please do not use this tool to obtain ground motion parameter values for the design code reference documents covered by the U.S. Seismic Design Maps web tools (e.g., the International Building Code and the ASCE 7 or 41 Standard). The values returned by the two applications are not identical.

Input

Edition

Dynamic: Conterminous U.S. 2014 (u…

Spectral Period

Peak Ground Acceleration

Latitude

Decimal degrees

34.19550007223612

Time Horizon

Return period in years

2475

Longitude

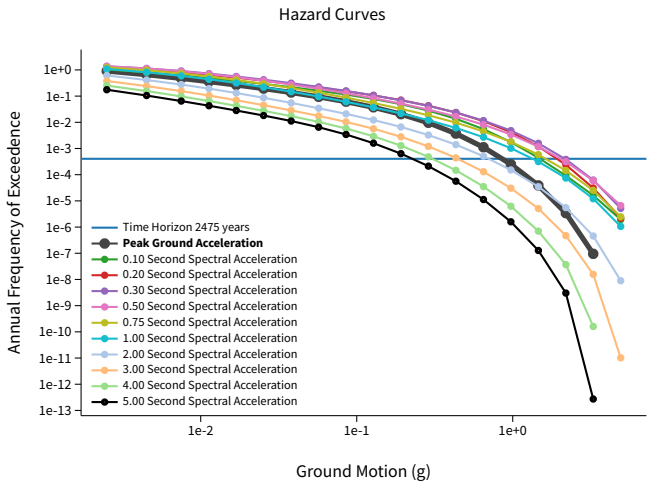
Decimal degrees, negative values for western longitudes

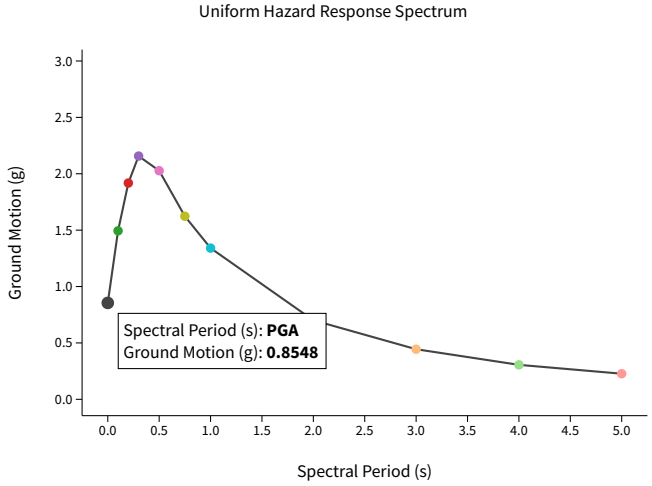
-118.60449753371914

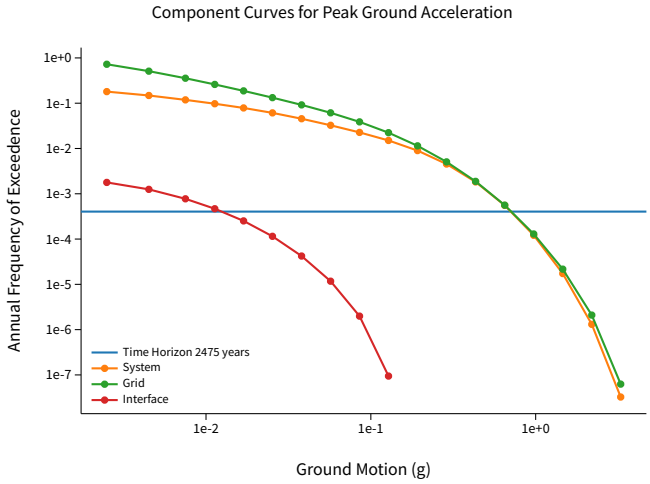
Site Class

259 m/s (Site class D)

Hazard Curve





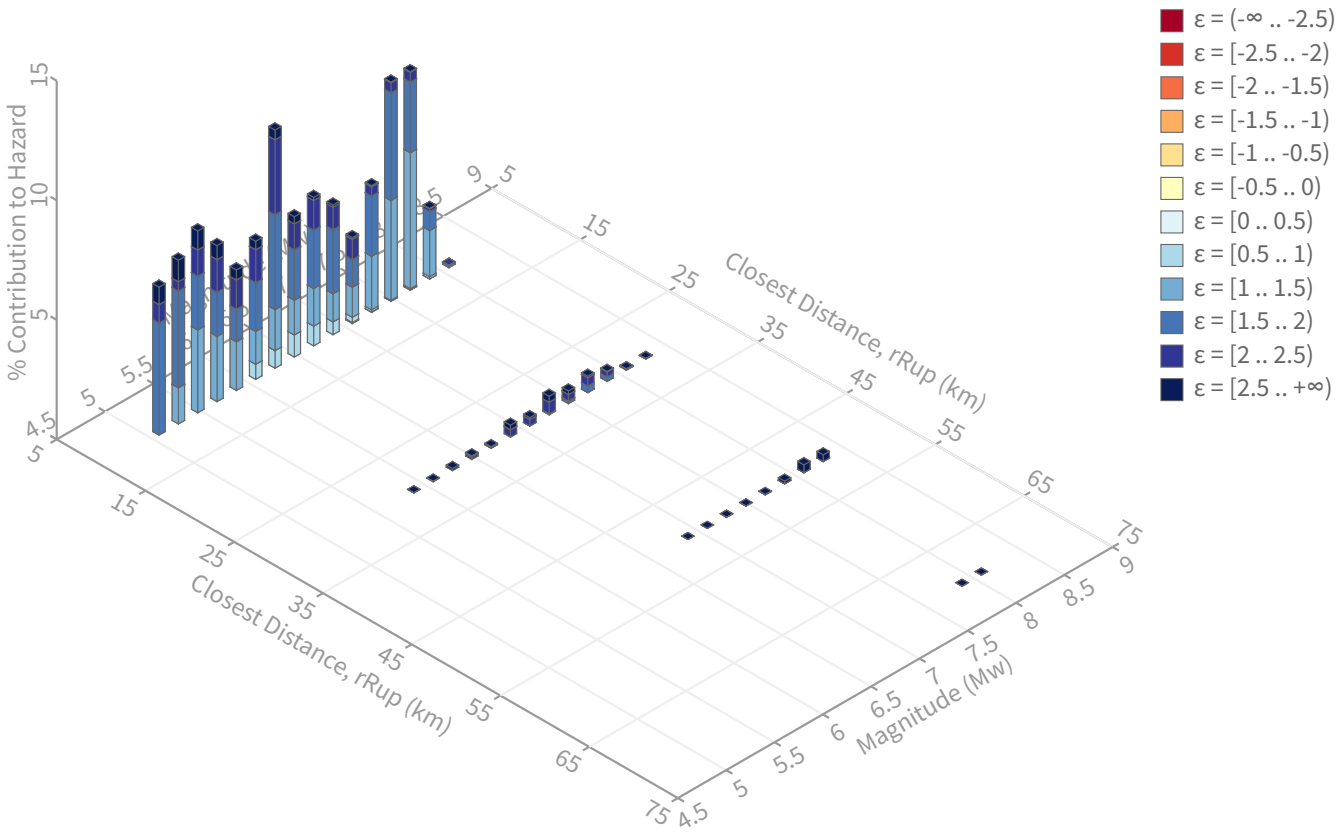


View Raw Data

Deaggregation

Component

Total



Summary statistics for, Deaggregation: Total

Deaggregation targets

Return period: 2475 yrs
Exceedance rate: 0.0004040404 yr^{-1}
PGA ground motion: 0.85475385 g

Recovered targets

Return period: 3072.5943 yrs
Exceedance rate: 0.00032545787 yr^{-1}

Totals

Binned: 100 %
Residual: 0 %
Trace: 0.04 %

Mean (over all sources)

m: 6.51
r: 11.04 km
ε_0: 1.69 σ

Mode (largest m-r bin)

m: 6.3
r: 11.02 km
ε_0: 1.81 σ
Contribution: 9.96 %

Mode (largest m-r-ε_0 bin)

m: 7.7
r: 14.31 km
ε_0: 1.27 σ
Contribution: 5.68 %

Discretization

r: min = 0.0, max = 1000.0, Δ = 20.0 km
m: min = 4.4, max = 9.4, Δ = 0.2
ε: min = -3.0, max = 3.0, Δ = 0.5 σ

Epsilon keys

ε0: [-∞ .. -2.5)
ε1: [-2.5 .. -2.0)
ε2: [-2.0 .. -1.5)
ε3: [-1.5 .. -1.0)
ε4: [-1.0 .. -0.5)
ε5: [-0.5 .. 0.0)
ε6: [0.0 .. 0.5)
ε7: [0.5 .. 1.0)
ε8: [1.0 .. 1.5)
ε9: [1.5 .. 2.0)
ε10: [2.0 .. 2.5)
ε11: [2.5 .. +∞]

Deaggregation Contributors

Source Set ↳ Source	Type	r	m	ε_0	lon	lat	az	%
UC33brAvg_FM31 (opt)	Grid							26.31
PointSourceFinite: -118.604, 34.200		4.83	5.72	1.42	118.605°W	34.200°N	0.00	8.38
PointSourceFinite: -118.604, 34.200		4.83	5.72	1.42	118.605°W	34.200°N	0.00	8.38
PointSourceFinite: -118.604, 34.272		8.69	6.04	1.90	118.605°W	34.272°N	0.00	1.30
PointSourceFinite: -118.604, 34.272		8.69	6.04	1.90	118.605°W	34.272°N	0.00	1.30
PointSourceFinite: -118.604, 34.281		9.59	5.98	2.04	118.605°W	34.281°N	0.00	1.15
PointSourceFinite: -118.604, 34.281		9.59	5.98	2.04	118.605°W	34.281°N	0.00	1.15
UC33brAvg_FM32 (opt)	Grid							26.27
PointSourceFinite: -118.604, 34.200		4.83	5.72	1.42	118.605°W	34.200°N	0.00	8.38
PointSourceFinite: -118.604, 34.200		4.83	5.72	1.42	118.605°W	34.200°N	0.00	8.38
PointSourceFinite: -118.604, 34.272		8.69	6.04	1.90	118.605°W	34.272°N	0.00	1.30
PointSourceFinite: -118.604, 34.272		8.69	6.04	1.90	118.605°W	34.272°N	0.00	1.30
PointSourceFinite: -118.604, 34.281		9.58	5.99	2.03	118.605°W	34.281°N	0.00	1.13
PointSourceFinite: -118.604, 34.281		9.58	5.99	2.03	118.605°W	34.281°N	0.00	1.13
UC33brAvg_FM32	System							24.88
Santa Susana alt 2 [3]		13.36	7.18	1.70	118.583°W	34.314°N	8.42	7.04
Northridge Hills [0]		10.62	7.67	1.45	118.554°W	34.280°N	26.41	2.17
Mission Hills 2011 [1]		10.79	7.18	1.67	118.556°W	34.283°N	24.62	2.17
Santa Susana East (connector) [0]		14.59	6.35	1.90	118.499°W	34.314°N	36.09	2.14
Compton [4]		15.58	7.58	1.47	118.608°W	34.022°N	180.94	2.01
Northridge [2]		16.68	7.55	1.35	118.550°W	34.343°N	16.83	1.90
Anacapa-Dume alt 2 [0]		14.16	7.37	1.49	118.554°W	34.031°N	165.70	1.51
UC33brAvg_FM31	System							22.54
Santa Susana alt 1 [0]		14.04	7.37	1.58	118.544°W	34.310°N	23.57	5.60
Northridge [2]		16.68	7.37	1.38	118.550°W	34.343°N	16.83	3.52
Mission Hills 2011 [1]		10.79	6.56	1.98	118.556°W	34.283°N	24.62	2.16
Northridge Hills [0]		10.62	7.68	1.45	118.554°W	34.280°N	26.41	2.15
Compton [4]		15.58	7.42	1.53	118.608°W	34.022°N	180.94	1.82
Simi-Santa Rosa [0]		15.44	7.09	1.75	118.698°W	34.309°N	325.94	1.36
Santa Susana East (connector) [0]		14.59	6.32	1.91	118.499°W	34.314°N	36.09	1.12

CPHS

Latitude, Longitude: 34.19550007223612, -118.60449753371914



Date	11/30/2021, 3:25:04 PM
Design Code Reference Document	ASCE7-16
Risk Category	II
Site Class	D - Stiff Soil

Type	Value	Description
S_S	1.5	MCE_R ground motion. (for 0.2 second period)
S_1	0.6	MCE_R ground motion. (for 1.0s period)
S_{MS}	1.5	Site-modified spectral acceleration value
S_{M1}	null -See Section 11.4.8	Site-modified spectral acceleration value
S_{DS}	1	Numeric seismic design value at 0.2 second SA
S_{D1}	null -See Section 11.4.8	Numeric seismic design value at 1.0 second SA

Type	Value	Description
SDC	null -See Section 11.4.8	Seismic design category
F_a	1	Site amplification factor at 0.2 second
F_v	null -See Section 11.4.8	Site amplification factor at 1.0 second
PGA	0.589	MCE_G peak ground acceleration
F_{PGA}	1.1	Site amplification factor at PGA
PGA_M	0.648	Site modified peak ground acceleration
T_L	8	Long-period transition period in seconds
SsRT	1.81	Probabilistic risk-targeted ground motion. (0.2 second)
SsUH	1.942	Factored uniform-hazard (2% probability of exceedance in 50 years) spectral acceleration
SsD	1.5	Factored deterministic acceleration value. (0.2 second)
S1RT	0.637	Probabilistic risk-targeted ground motion. (1.0 second)
S1UH	0.697	Factored uniform-hazard (2% probability of exceedance in 50 years) spectral acceleration.
S1D	0.6	Factored deterministic acceleration value. (1.0 second)
PGAd	0.589	Factored deterministic acceleration value. (Peak Ground Acceleration)
C_{RS}	0.932	Mapped value of the risk coefficient at short periods
C_{R1}	0.913	Mapped value of the risk coefficient at a period of 1 s

CPHS

Latitude, Longitude: 34.19550007223612, -118.60449753371914



Date	12/2/2021, 3:03:42 PM
Design Code Reference Document	ASCE41-17
Custom Probability	
Site Class	D - Stiff Soil

Type	Description	Value
Hazard Level		BSE-2N
S_S	spectral response (0.2 s)	1.5
S_1	spectral response (1.0 s)	0.6
S_{XS}	site-modified spectral response (0.2 s)	1.5
S_{X1}	site-modified spectral response (1.0 s)	1.02
F_a	site amplification factor (0.2 s)	1
F_v	site amplification factor (1.0 s)	1.7
ssuh	max direction uniform hazard (0.2 s)	1.942
crs	coefficient of risk (0.2 s)	0.932
ssrt	risk-targeted hazard (0.2 s)	1.81
ssd	deterministic hazard (0.2 s)	1.5
s1uh	max direction uniform hazard (1.0 s)	0.697
cr1	coefficient of risk (1.0 s)	0.913
s1rt	risk-targeted hazard (1.0 s)	0.637
s1d	deterministic hazard (1.0 s)	0.6

Type	Description	Value
Hazard Level		BSE-1N
S_{XS}	site-modified spectral response (0.2 s)	1
S_{X1}	site-modified spectral response (1.0 s)	0.68

Type	Description	Value
Hazard Level		BSE-2E
S_S	spectral response (0.2 s)	1.413
S_1	spectral response (1.0 s)	0.488
S_{XS}	site-modified spectral response (0.2 s)	1.413
S_{X1}	site-modified spectral response (1.0 s)	0.884
f_a	site amplification factor (0.2 s)	1
f_v	site amplification factor (1.0 s)	1.812

Type	Description	Value
Hazard Level		BSE-1E
S_S	spectral response (0.2 s)	0.756
S_1	spectral response (1.0 s)	0.243
S_{XS}	site-modified spectral response (0.2 s)	0.906
S_{X1}	site-modified spectral response (1.0 s)	0.513
F_a	site amplification factor (0.2 s)	1.197
F_v	site amplification factor (1.0 s)	2.114

Type	Description	Value
Hazard Level		TL Data
T-Sub-L	Long-period transition period in seconds	8

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Site-Specific MCE_R & Design Response Spectral Accelerations

CPHS

Input Parameters

Coordinates	34.196, -118.605
V_{S30}	220 m/s



Values used in Computation

V_{S30}	220 m/s
Z1.0	250 m
Z2.5	2500 m

Calculated Results

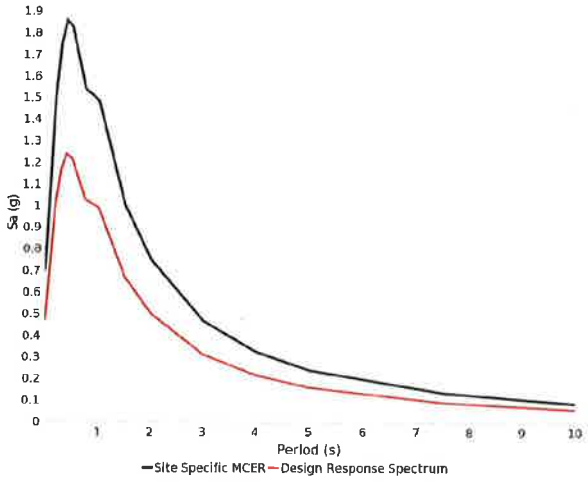
Site-Specific Design Parameters

S_{DS}	1.115	S_{MS}	1.672
S_{D1}	1.007	S_{M1}	1.510

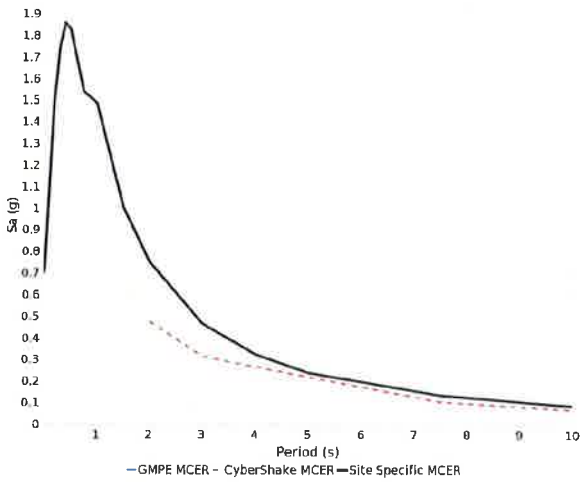
MCE_G Peak Ground Acceleration (Sect. 21.5)

PGA_M	0.601 g

MCE_R Response Spectra



MCE_R Response Spectra Comparison



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Site-Specific MCE_R & Design Response Spectral Accelerations

MCE_R Response Spectrum Table

Period (s)	GMPE Sa (g)	CyberShake Sa (g)	Site-Specific MCE_R Sa* (g)
0.01	0.701		0.701
0.02	0.708		0.708
0.03	0.735		0.735
0.05	0.825		0.825
0.075	0.938		0.938
0.1	1.057		1.057
0.15	1.289		1.289
0.2	1.509		1.509
0.25	1.617		1.617
0.3	1.747		1.747
0.4	1.858		1.858
0.5	1.829		1.829
0.75	1.541		1.541
1.0	1.488		1.488
1.5	1.007		1.007
2.0	0.752	0.477	0.752
3.0	0.468	0.316	0.468
4.0	0.325	0.266	0.325
5.0	0.239	0.220	0.239
7.5	0.135	0.104	0.135
10.0	0.086	0.067	0.086

* Site-Specific MCER response spectrum obtained using obtained weighted geometric averaging procedure. See User Guide: https://data2.scec.org/ugms-mcerGM-tool_v18.4/guide

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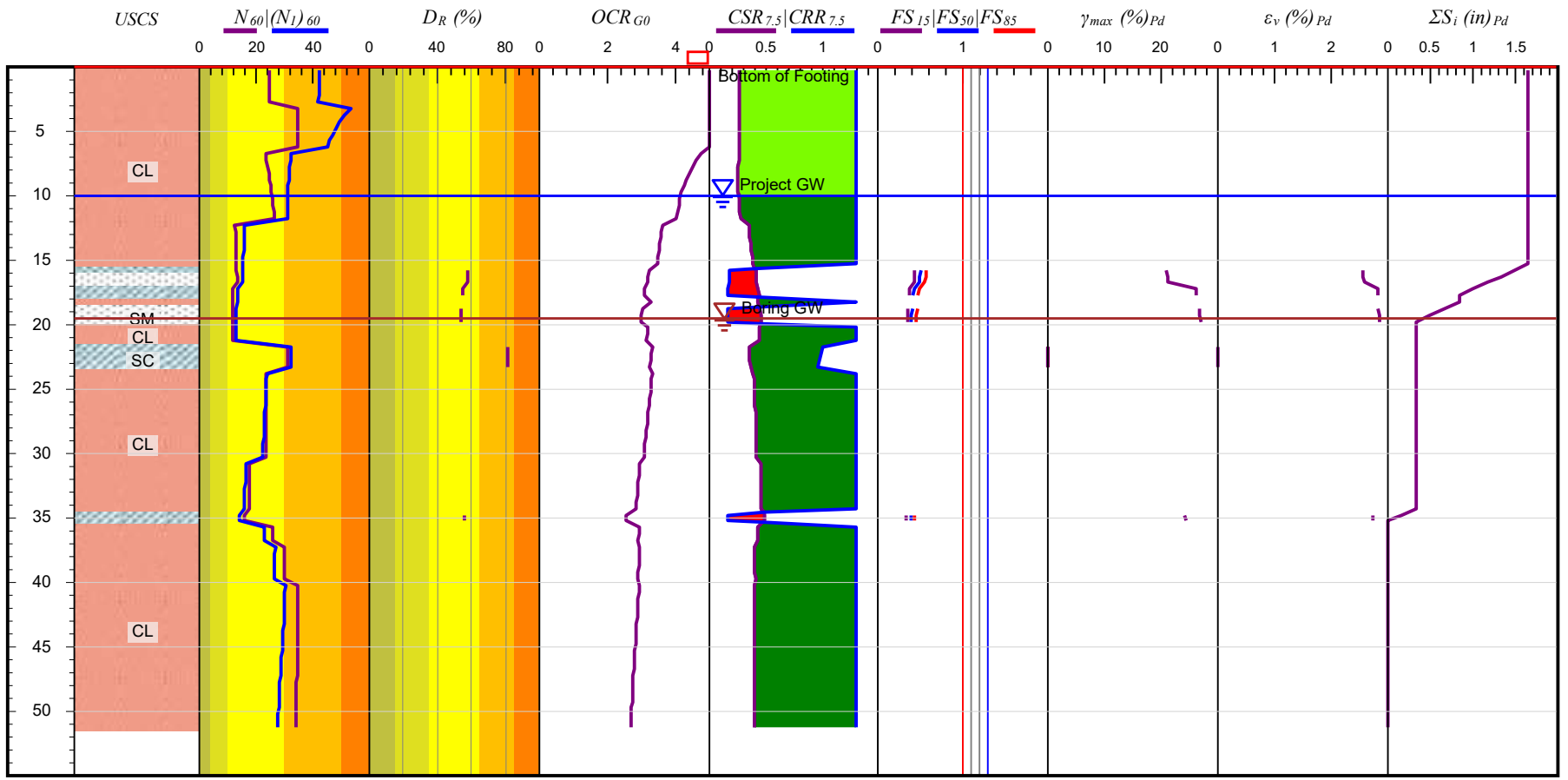
Site-Specific MCE_R & Design Response Spectral Accelerations

Important Note

The site-specific, design response spectral acceleration, Sa, returned by this tool for user-specified inputs, must be compared to the minimum Sa requirement described in Section 21.3 of ASCE 7-16 (second and third paragraphs). This minimum Sa is computed as 80% of the design response spectrum derived from the SDS, SD1, and TL values obtained from the ASCE tool at https://asce7hazardtool.online/. The larger of the site-specific Sa and the 80% minimum Sa at each period, T, is the final design response spectral acceleration. This final Sa x 1.5 is the final MCER response spectral acceleration.

About UGMS

The UGMS MCER tool was developed by the SCEC Committee for Utilization of Ground Motion Simulations (or "UGMS Committee") from research supported by the Southern California Earthquake Center (SCEC). SCEC is funded by NSF Cooperative Agreement EAR-1033462 & USGS Cooperative Agreement G12AC20038. For more information on the UGMS Committee, visit https://www.scec.org/research/ugms.



CL

SC

SM

Silt Correction:
$K=(1\text{-}FC)^{0.75}$

Earthquake & Groundwater Information:
Magnitude = 6.51
Max. Acceleration = 0.648 g
Project GW = 10 ft
Maximum Settlement = 1.64 in
Settl. at Bottom of Footing = 1.64 in

Liquefaction: Boulanger & Idriss (2010-16)
Settl.: [dry] Pradel (1998); [sat] Idriss & Boulanger (2008)
Lateral spreading: Idriss & Boulanger (2008)
M correction: [Sand; Clay] Boulanger & Idriss(2004)
σv correction: Idriss & Boulanger (2008)
Stress reduction: Idriss & Boulanger (2008)

GORIAN & ASSOCIATES, INC

Seismic Settlement Potential - SPT Data

Project:	Canoga Park High School Modernization				
Location:	6850 Topanga Canyon Blvd				
Project No.:	2880-83-3-100	Boring No.:	B-12	Figure:	6

X:\2880-0-0-LA Unified Sch Dist-Master File\2880-83 Canoga Park High Sch\2880-83-3 Comprensive Modernization\Seismic Settlement\GeoSuite_2880-83-3-100_B-12.csv

GeoSuite© Version 3.1.0.0. Developed by Fred Yi, PhD, PE, GE, F. ASCE

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Prepared at 1/10/2022 3:33:31 PM

Z_b (ft)	Z_m (ft)	γ (pcf)	N_{60}	FC(%)	CC(%)	USCS	φ (°)	C' (tsf)	σ_{v0} (tsf)	σ_{v0}' (tsf)	C_N	C_s	$(N_1)_{60}$	$(N_1)_{60cs}$	D_R (%)	V_s (ft/s)	G_0 (tsf)	σ_p' (tsf)	OCR_{G0}	S_u/σ_{v0}'	K_0	r_d	MSF	K_σ	K_α	$CSR_{7.5}$	$CRR_{7.5}$	FS	τ_{av} (tsf)	p (tsf)	G/G_0	γ_{max} (%)	ε_v (%)	ΔS_i	ΣS_i (in)	N
0.50	0.25	125.0	24.9	50.0	0.0	5	0.0	0.0	0.02	0.02	1.7	1.3	42.3	47.9		778.8	1,178.4	0.08	5.0	0.80	1.0	1.00	1.45	1.10	1.00	0.26	1.30		0.01	0.02	0.0000			0.00	1.64	18.0
1.00	0.75	125.0	24.9	50.0	0.0	5	0.0	0.0	0.05	0.05	1.7	1.3	42.3	47.9		773.7	1,162.8	0.23	5.0	0.80	1.0	1.00	1.45	1.10	1.00	0.26	1.30		0.02	0.05	0.0000			0.00	1.64	18.0
1.50	1.25	125.0	24.9	50.0	0.0	5	0.0	0.1	0.08	0.08	1.7	1.3	42.3	47.9		768.8	1,148.1	0.39	5.0	0.80	1.0	1.00	1.45	1.10	1.00	0.26	1.30		0.03	0.08	0.0000			0.00	1.64	18.0
2.00	1.75	125.0	24.9	50.0	0.0	5	0.0	0.1	0.11	0.11	1.7	1.3	42.3	47.9		764.1	1,134.2	0.55	5.0	0.80	1.0	1.00	1.45	1.10	1.00	0.26	1.30		0.05	0.11	0.0000			0.00	1.64	18.0
2.50	2.25	125.0	24.9	50.0	0.0	5	0.0	0.1	0.14	0.14	1.7	1.3	42.3	47.9		759.7	1,121.1	0.70	5.0	0.80	1.0	0.99	1.45	1.10	1.00	0.26	1.30		0.06	0.14	0.0000			0.00	1.64	18.0
3.00	2.75	125.0	24.9	50.0	0.0	5	0.0	0.1	0.17	0.17	1.7	1.3	41.9	47.5		755.4	1,108.6	0.86	5.0	0.80	1.0	0.99	1.45	1.10	1.00	0.26	1.30		0.07	0.17	0.0000			0.00	1.64	18.0
3.50	3.25	125.0	34.5	50.0	0.0	5	0.0	0.2	0.20	0.20	1.5	1.3	53.3	58.9		790.6	1,214.2	1.02	5.0	0.80	1.0	0.99	1.45	1.10	1.00	0.26	1.30		0.08	0.20	0.0000			0.00	1.64	25.0
4.00	3.75	125.0	34.5	50.0	0.0	5	0.0	0.2	0.23	0.23	1.5	1.3	51.3	57.0		786.4	1,201.3	1.17	5.0	0.80	1.0	0.99	1.45	1.10	1.00	0.26	1.30		0.10	0.23	0.0000			0.00	1.64	25.0
4.50	4.25	125.0	34.5	50.0	0.0	5	0.0	0.2	0.27	0.27	1.4	1.3	49.7	55.3		782.4	1,189.0	1.33	5.0	0.80	1.0	0.99	1.45	1.10	1.00	0.26	1.30		0.11	0.27	0.0000			0.00	1.64	25.0
5.00	4.75	125.0	34.5	50.0	0.0	5	0.0	0.2	0.30	0.30	1.4	1.3	48.2	53.9		778.5	1,177.3	1.48	5.0	0.80	1.0	0.98	1.45	1.10	1.00	0.26	1.30		0.12	0.30	0.0000			0.00	1.64	25.0
5.50	5.25	125.0	34.5	50.0	0.0	5	0.0	0.3	0.33	0.33	1.4	1.3	47.0	52.6		774.8	1,166.0	1.64	5.0	0.80	1.0	0.98	1.45	1.10	1.00	0.26	1.30		0.14	0.33	0.0000			0.00	1.64	25.0
6.00	5.75	125.0	34.5	50.0	0.0	5	0.0	0.3	0.36	0.36	1.3	1.3	45.9	51.5		771.2	1,155.2	1.80	5.0	0.80	1.0	0.98	1.45	1.10	1.00	0.26	1.30		0.15	0.36	0.0000			0.00	1.64	25.0
6.50	6.25	125.0	34.5	50.0	0.0	5	0.0	0.3	0.39	0.39	1.3	1.3	45.1	50.7		780.2	1,182.6	1.95	5.0	0.80	1.0	0.98	1.45	1.10	1.00	0.26	1.30		0.16	0.39	0.0000			0.00	1.64	25.0
7.00	6.75	115.0	23.5	50.0	0.0	5	0.0	0.3	0.42	0.42	1.4	1.3	32.4	38.0		778.2	1,082.3	1.99	4.7	0.80	1.0	0.98	1.45	1.10	1.00	0.26	1.30		0.17	0.42	0.0000			0.00	1.64	17.0
7.50	7.25	115.0	23.8	50.0	0.0	5	0.0	0.4	0.45	0.45	1.3	1.3	32.1	37.7		789.6	1,114.3	2.08	4.6	0.80	1.0	0.97	1.45	1.10	1.00	0.26	1.30		0.18	0.45	0.0000			0.00	1.64	17.0
8.00	7.75	115.0	24.2	50.0	0.0	5	0.0	0.4	0.48	0.48	1.3	1.3	31.9	37.5		801.0	1,146.7	2.16	4.5	0.80	1.0	0.97	1.45	1.10	1.00	0.26	1.30		0.20	0.48	0.0000			0.00	1.64	17.0
8.50	8.25	115.0	24.5	50.0	0.0	5	0.0	0.4	0.51	0.51	1.3	1.3	31.8	37.4		811.7	1,177.5	2.24	4.4	0.80	1.0	0.97	1.45	1.10	1.00	0.26	1.30		0.21	0.51	0.0000			0.00	1.64	17.0
9.00	8.75	115.0	24.9	50.0	0.0	5	0.0	0.4	0.54	0.54	1.3	1.3	31.6	37.2		821.8	1,207.0	2.32	4.3	0.80	1.0	0.97	1.45	1.10	1.00	0.26	1.30		0.22	0.54	0.0000			0.00	1.64	17.0
9.50	9.25	115.0	25.2	50.0	0.0	5	0.0	0.4	0.56	0.56	1.2	1.3	31.5	37.1		831.4	1,235.3	2.40	4.3	0.80	1.0	0.97	1.45	1.10	1.00	0.26	1.30		0.23	0.56	0.0000			0.00	1.64	17.0
10.00	9.75	115.0	25.5	50.0	0.0	5	0.0	0.5	0.59	0.59	1.2	1.3	31.3	36.9		840.4	1,262.4	2.48	4.2	0.80	1.0	0.96	1.45	1.10	1.00	0.25	1.30		0.24	0.59	0.0000			0.00	1.64	17.0
10.50	10.25	115.0	25.8	50.0	0.0	5	0.0	0.5	0.62	0.61	1.2	1.3	31.3	36.9		847.1	1,282.5	2.53	4.1	0.80	1.0	0.96	1.45	1.10	1.00	0.26	1.30		0.25	0.61				0.00	1.64	17.0
11.00	10.75	115.0	26.1	50.0	0.0	5	0.0	0.5	0.65	0.63	1.2	1.3	31.3	37.0		851.7	1,296.3	2.57	4.1	0.80	1.0	0.96	1.45	1.10	1.00	0.26	1.30		0.26	0.63				0.00	1.64	17.0
11.50	11.25	115.0	26.3	50.0	0.0	5	0.0	0.5	0.68	0.64	1.2	1.3	31.4	37.0		856.1	1,309.7	2.60	4.1	0.80	1.0	0.96	1.45	1.10	1.00	0.27	1.30		0.27	0.64				0.00	1.64	17.0
12.00	11.75	115.0	26.5	50.0	0.0	5	0.0	0.5	0.71	0.65	1.2	1.3	31.5	37.1		860.3	1,322.7	2.64	4.0	0.80	1.0	0.95	1.45	1.10	1.00	0.27	1.30		0.28	0.65				0.00	1.64	17.0
12.50	12.25	115.0	12.6	50.0	0.0	5	0.0	0.5	0.74	0.67	1.2	1.2	15.7	21.4		777.7	1,080.8	2.42	3.6	0.80	1.0	0.95	1.20	1.06	1.00	0.35	1.30		0.30	0.67				0.00	1.64	9.0
13.00	12.75	115.0	12.7	50.0	0.0	5	0.0	0.5	0.77	0.68	1.2	1.2	15.7	21.3		781.3	1,090.9	2.45	3.6	0.80	1.0	0.95	1.20	1.06	1.00	0.35	1.30		0.31	0.68				0.00	1.64	9.0
13.50	13.25	115.0	12.8	50.0	0.0	5	0.0	0.6	0.79	0.69	1.2	1.2	15.7	21.3		784.8	1,100.7	2.48	3.6	0.80	1.0	0.95	1.20	1.05	1.00	0.36	1.30		0.32	0.69				0.00	1.64	9.0
14.00	13.75	115.0	12.9	50.0	0.0	5	0.0	0.6	0.82	0.71	1.2	1.2	15.6	21.3		788.2	1,110.2	2.51	3.5	0.80	1.0	0.94	1.20	1.05	1.00	0.37	1.30		0.33	0.71				0.00	1.64	9.0
14.50	14.25	115.0	13.0	50.0	0.0	5	0.0	0.6	0.85	0.72	1.2	1.2	15.6	21.2		791.5	1,119.6	2.54	3.5	0.79	1.0	0.94	1.20	1.05	1.00	0.37	1.30		0.34	0.72				0.00	1.64	9.0
15.00	14.75	115.0	13.0	50.0	0.0	5	0.0	0.6	0.88	0.73	1.2	1.2	15.6	21.2		794.7	1,128.7	2.57	3.5	0.78	1.0	0.94	1.20	1.05	1.00	0.38	1.30		0.35	0.73				0.00	1.64	9.0
15.50	15.25	115.0	13.1	50.0	0.0	5	0.0	0.6	0.91	0.75	1.2	1.2	15.5	21.1		798.0	1,137.9	2.59	3.5	0.77	1.0	0.94	1.20	1.04	1.00	0.38	1.30		0.36	0.75				0.00	1.64	9.0
16.00	15.75	120.0	13.2	12.0	0.0	9	33.1	0.0	0.94	0.76	1.2	1.2	15.5	17.5	58.1	728.2	988.8	2.45	3.2		0.9	0.93	1.15	1.04	1.00	0.41	0.18	0.44	0.37	0.69		20.889	2.5591	0.15	1.49	9.0
16.50	16.25	120.0	13.2	12.0	0.0	12	33.1	0.0	0.97	0.77	1.2	1.2	15.4	17.5	58.0	730.6	995.4	2.47	3.2		0.9	0.93	1.15	1.04	1.00	0.41	0.18	0.43	0.38	0.70		21.041	2.5665	0.15	1.33	9.0
17.00	16.75	120.0	13.3	12.0	0.0	12	33.0	0.0	1.00	0.79	1.2	1.2	15.3	17.4	57.9	732.9	1,001.7	2.50	3.2		0.9	0.93	1.15	1.03	1.00	0.42	0.18	0.43	0.39	0.71		21.199	2.5743	0.15	1.18	9.0
17.50	17.25	120.0	11.7	12.0	0.0	9	32.2	0.0	1.03	0.80	1.1	1.1	13.4	15.5	54.6	720.6	968.3	2.48	3.1		0.9	0.92	1.12	1.03	1.00	0.43	0.16	0.37	0.40	0.72		26.110	2.8091	0.17	1.01	8.0
18.00	17.75	120.0	11.7	12.0	0.0	9	32.2	0.1	1.06	0.82	1.1	1.1	13.3	15.4	54.4	722.8	974.2	2.50	3.1		0.8	0.92	1.12	1.03	1.00	0.44	0.16	0.37	0.41	0.73		26.303	2.8181	0.17	0.84	8.0
18.50	18.25	120.0	11.8	50.0	0.0	5	0.0	0.6	1.09	0.83	1.1	1.1	13.3	18.9		785.6	1,150.9	2.73	3.3	0.70	1.0	0.92	1.17	1.03	1.00	0.42	1.30		0.42	0.83				0.00	0.84	8.0
19.00	18.75	120.0	11.8	12.0	0.0	12	32.2	0.1	1.12	0.85	1.1	1.1	13.2	15.3	54.2	727.0	985.6	2.55	3.0		0.8	0.92	1.12	1.02	1.00	0.44	0.16	0.36	0.43	0.76		26.690	2.8361	0.17	0.67	8.0
19.50	19.25	120.0	11.8	12.0	0.0	12	32.1	0.1	1.15	0.86	1.1	1.1	13.1	15.2	54.1	729.0	991.1	2.58	3.0		0.8	0.91	1.12	1.02	1.00	0.45	0.16	0.35	0.44	0.77		26.889	2.8453	0.17	0.50	8.0
20.00	19.75	120.0	11.9	12.0	0.0	12	32.1	0.1	1.18	0.87	1.1	1.1	13.1	15.1	54.0	731.0	996.5	2.60	3.0		0.8	0.91	1.12	1.02	1.00	0.45	0.16	0.35	0.45	0.78		27.090	2.8547	0.17	0.33	8.0
20.50	20.25	125.0	11.9	50.0	0.0	5	0.0	0.6	1.21	0.89	1.1	1.1	13.0	18.6		780.4	1,183.1	2.85	3.2	0.65	1.0	0.91	1.16	1.02	1.00	0.44	1.30		0.46	0.89				0.00	0.33	8.0
21.00	20.75	125.0	11.9	50.0	0.0	5	0.0	0.6	1.24	0.91	1.1	1.1	12.9	18.5		783.1	1,191.3	2.88	3.2	0.65	1.0	0.90	1.16	1.02	1.00	0.44	1.30		0.47	0.91				0.00	0.33	8.0
21.50	21.25	125.0	12.0	50.0	0.0	5	0.0	0.6	1.27	0.92	1.1	1.1	12.8	18.5		785.7	1,199.3	2.91	3.2	0.64	1.0	0.90	1.16	1.02	1.00	0.44	1.30		0.48	0.92				0.00	0.33	8.0
22.00	21.75	125.0	31.1	12.0	0.0	9	38.6	0.1	1.30	0.94	1.0	1.3	32.4	34.5	81.5	834.0	1,351.1	3.10	3.3		0.8	0.90	1.45	1.03	1.00	0.36	1.01	2.00	0.49	0.81		0.000	0.0000	0.00	0.33	18.0
22.50	22.25	125.0	31.2	12.0	0.0	9	38.5	0.1	1.33	0.95	1.0	1.3	32.3	34.4	81.3	836.1	1,357.9	3.13	3.3		0.8	0.90	1.45	1.02	1.00	0.36	0.98	2.00	0.50	0.82		0.000	0.0000	0.00	0.33	18.0
23.00	22.75	125.0	31.3	12.0	0.0	9	38.5	0.1	1.37	0.97	1.0	1.3	32.2	34.3	81.2	838.1	1,364.4	3.16	3.3		0.8	0.89	1.45	1.02	1.00	0.36	0.97	2.00	0.51	0.83		0.000	0.0000	0.00	0.33	18.0
23.50	23.25	125.0	31.4	12.0	0.0	9	38.5	0.1	1.40	0.98	1.0	1.3	32.2	34.2	81.1	840.0	1,370.8	3.19	3.2		0.8	0.89	1.45	1.02	1.00	0.36	0.95	2.00	0.52	0.84		0.000	0.0000	0.00	0.33	18.0
24.00	23.75	125.0	23.3	50.0	0.0	5	0.0	0.7	1.43	1.00	1.0	1.2	23.8	29.5		871.2	1,474.4	3.32	3.3	0.68	1.0	0.89	1.36	1.01	1.00	0.39	1.30		0.53	1.00				0.00	0.33	14.0
24.50	24.25	125.0	23.3	50.0	0.0	5	0.0	0.7	1.46	1.01	1.0	1.2	23.7	29.4		873.7	1,482.9	3.35	3.3	0.67	1.0	0.88	1.36	1.01	1.00	0.39	1.30		0.54	1.01				0.00	0.33	14.0
25.00	24.75	125.0	23.4	50.0	0.0	5	0.0	0.7	1.49	1.03	1.0	1.2	23.6	29.2		876.1	1,490.9	3.38	3.3	0.67	1.0	0.88	1.35	1.00	1.00	0.39	1.30		0.55	1.03				0.00	0.33	14.0
25.50	25.25	125.0	23.4	50.0	0.0	5	0.0	0.7	1.52	1.05	1.0	1.2	23.5	29.1		878.4	1,498.8	3.41	3.3	0.66	1.0	0.88	1.35	1.00	1.00	0.40	1.30		0.56	1.05				0.00	0.33	14.0
26.00	25.75	125.0	23.4	50.0	0.0	5	0.0	0.7	1.55	1.06	1.0	1.2	23.4	29.0		880.6	1,506.5	3.44	3.2	0.66	1.0	0.87	1.35	1.00	1.00	0.40	1.30		0.57	1.06				0.00	0.33	14.0
26.50	26.25	125.0	23.4	50.0	0.0	5	0.0	0.7	1.58	1.08	1.0	1.2	23.3	28.9		882.9	1,514.2	3.47	3.2	0.65	1.0	0.87	1.35	1.00	1.00	0.40	1.30		0.58	1.08				0.00	0.33	14.0
27.00	26.75	125.0	23.4	50.0	0.0	5	0.0	0.7	1.62	1.09	1.0	1.2	23.1	28.7		885.1	1,521.7	3.50	3.2	0.64	1.0	0.87	1.34	0.99	1.00	0.40	1.30		0.59	1.09				0.00	0.33	14.0
27.50	27.25	125.0	23.5	50.0	0.0	5	0.0	0.7	1.65	1.11	1.0	1.2	23.0	28.6		887.2	1,529.1	3.53	3.2	0.64	1.0	0.87	1.34	0.99	1.00	0.41	1.30		0.60	1.11				0.00	0.33	14.0
28.00	27.75	125.0	23.5	50.0	0.0	5	0.0	0.7	1.68	1.12	1.0	1.2	22.9	28.5		889.3	1,536.4	3.56	3.2	0.63	1.0	0.86	1.34	0.99	1.00	0.41	1.30		0.61	1.12				0.00	0.33	14.0
28.50	28.25	125.0	23.5	50.0	0.0	5	0.0	0.7	1.71	1.14	1.0	1.2	22.8	28.4		891.4	1,543.6	3.59	3.1	0.63	1.0	0.86	1.34	0.99	1.00	0.41	1.30		0.62	1.14				0.00	0.33	14.0
29.00	28.75	125.0	23.5	50.0	0.0	5	0.0	0.7	1.74	1.16	1.0	1.2	22.7	28.3		893.6	1,551.1	3.62	3.1	0.62	1.0	0.86	1.33	0.99	1.00	0.41	1.30		0.63	1.16				0.00	0.33	14.0
29.50	29.25	125.0	23.5	50.0	0.0	5	0.0	0.7	1.77	1.17	1.0	1.2	22.6	28.2		895.6	1,558.1	3.65	3.1	0.62	1.0	0.85	1.33	0.98	1.00	0.41	1.30		0.64	1.17				0.00	0.33	14.0
30.00	29.75	125.0	23.5	50.0	0.0	5	0.0	0.7	1.80	1.19	1.0	1.2	22.4	28.0		897.6	1,565.1	3.67	3.1	0.61	1.0	0.85	1.33	0.98	1.00	0.42	1.30		0.65	1.19				0.00	0.33	14.0
30.50	30.25	125.0	23.6	50.0	0.0	5	0.0	0.7	1.83	1.20	0.9	1.2	22.3	27.9		899.6	1,571.9	3.70	3.1	0.61	1.0	0.85	1.33	0.98	1.00	0.42	1.30		0.65	1.20				0.00	0.33	14.0
31.00	30.75	125.0	17.7	50.0	0.0	5	0.0	0.7	1.87	1.22	0.9	1.2	16.5	22.1		867.0	1,460.1	3.59	2.9	0.58	1.0	0.84	1.22	0.98	1.00	0.46	1.30		0.66	1.22				0.00	0.33	11.0
31.50	31.25	125.0	17.7	50.0	0.0	5	0.0	0.7	1.90	1.23	0.9	1.2	16.4	22.0		868.8	1,466.3	3.62	2.9	0.57	1.0	0.84	1.22	0.98	1.00	0.46	1.30		0.67	1.23				0.00	0.33	11.0
32.00	31.75	125.0	17.7	50.0	0.0	5	0.0	0.7	1.93	1.25	0.9	1.2	16.3	21.9		870.7	1,472.6	3.65	2.9	0.57	1.0	0.84	1.21	0.98	1.00	0.46	1.30		0.68	1.25				0.00	0.33	11.0
32.50	32.25	125.0	17.7	50.0	0.0	5	0.0	0.7	1.96	1.27	0.9	1.2	16.2	21.8		872.5	1,478.8	3.67	2.9	0.56	1.0	0.83	1.21	0.98	1.00	0.46	1.30		0.69	1.27				0.00	0.33	11.0
33.00	32.75	125.0	17.7	50.0	0.0	5	0.0	0.7	1.99	1.28	0.9	1.2	16.1	21.8		874.3	1,485.0	3.70	2.9	0.56	1.0	0.83	1.21	0.98	1.00	0.46	1.30		0.70	1.28				0.00	0.33	11.0
33.50	33.25	125.0	17.7	50.0	0.0	5	0.0	0.7	2.02	1.30	0.9	1.2	16.1	21.7		876.1	1,491.1	3.72	2.9	0.56	1.0	0.83	1.21	0.97	1.00	0.46	1.30		0.70	1.30				0.00	0.33	11.0
34.00	33.75	125.0	17.7	50.0	0.0	5	0.0	0.7	2.05	1.31	0.9	1.2	16.0	21.6		877.9	1,497.1	3.75	2.9	0.55	1.0	0.82	1.21	0.97	1.00	0.46	1.30		0.71	1.31				0.00	0.33	11.0
34.50	34.25	125.0	17.7	50.0	0.0	5	0.0	0.7	2.08	1.33	0.9	1.2	15.9	21.5		879.6	1,503.0	3.78	2.8	0.55	1.0	0.82	1.21	0.97	1.00	0.46	1.30		0.72	1.33				0.00	0.33	11.0

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Z_b (ft)	Z_m (ft)	γ (pcf)	N_{60}	FC(%)	CC(%)	USCS	φ (°)	C' (tsf)	σ_{v0} (tsf)	σ_{v0}' (tsf)	C_N	C_s	$(N_1)_{60}$	$(N_1)_{60cs}$	D_R (%)	V_s (ft/s)	G_0 (tsf)	σ_p' (tsf)	OCR_{G0}	S_u/σ_{v0}'	K_0	r_d	MSF	K_σ	K_α	$CSR_{7.5}$	$CRR_{7.5}$	FS	τ_{av} (tsf)	p (tsf)	G/G_0	γ_{max} (%)	ε_v (%)	ΔS_i	ΣS_i (in)	N
35.00	34.75	125.0	15.9	12.0	0.0	9	32.5	0.1	2.12	1.34	0.9	1.1	14.1	16.2	55.8	789.8	1,211.7	3.42	2.5		0.8	0.82	1.13	0.97	1.00	0.49	0.17	0.34	0.73	1.13		24.249	2.7215	0.16	0.16	10.0
35.50	35.25	125.0	15.9	12.0	0.0	9	32.5	0.1	2.15	1.36	0.9	1.1	14.0	16.1	55.6	791.0	1,215.4	3.45	2.5		0.8	0.81	1.13	0.97	1.00	0.49	0.17	0.34	0.74	1.14		24.480	2.7325	0.16	0.00	10.0
36.00	35.75	125.0	25.7	50.0	0.0	5	0.0	0.8	2.18	1.37	0.9	1.2	23.0	28.6		930.1	1,680.6	4.04	2.9	0.57	1.0	0.81	1.34	0.96	1.00	0.42	1.30		0.74	1.37				0.00	0.00	15.0
36.50	36.25	125.0	25.7	50.0	0.0	5	0.0	0.8	2.21	1.39	0.9	1.2	22.9	28.5		931.8	1,686.5	4.07	2.9	0.56	1.0	0.81	1.34	0.96	1.00	0.42	1.30		0.75	1.39				0.00	0.00	15.0
37.00	36.75	125.0	25.7	50.0	0.0	5	0.0	0.8	2.24	1.41	0.9	1.2	22.8	28.4		933.4	1,692.4	4.09	2.9	0.56	1.0	0.80	1.34	0.95	1.00	0.42	1.30		0.76	1.41				0.00	0.00	15.0
37.50	37.25	125.0	30.1	50.0	0.0	5	0.0	0.8	2.27	1.42	0.9	1.3	26.8	32.4		956.0	1,775.5	4.21	3.0	0.57	1.0	0.80	1.43	0.94	1.00	0.40	1.30		0.77	1.42				0.00	0.00	17.0
38.00	37.75	125.0	30.1	50.0	0.0	5	0.0	0.8	2.30	1.44	0.9	1.3	26.7	32.3		957.7	1,781.6	4.24	2.9	0.57	1.0	0.80	1.43	0.94	1.00	0.40	1.30		0.77	1.44				0.00	0.00	17.0
38.50	38.25	125.0	30.1	50.0	0.0	5	0.0	0.8	2.33	1.45	0.9	1.3	26.6	32.2		959.2	1,787.4	4.26	2.9	0.56	1.0	0.79	1.42	0.94	1.00	0.40	1.30		0.78	1.45				0.00	0.00	17.0
39.00	38.75	125.0	30.1	50.0	0.0	5	0.0	0.8	2.37	1.47	0.9	1.3	26.5	32.1		960.8	1,793.1	4.29	2.9	0.56	1.0	0.79	1.42	0.94	1.00	0.40	1.30		0.79	1.47				0.00	0.00	17.0
39.50	39.25	125.0	30.1	50.0	0.0	5	0.0	0.8	2.40	1.48	0.9	1.3	26.3	31.9		962.3	1,798.8	4.31	2.9	0.56	1.0	0.79	1.42	0.94	1.00	0.40	1.30		0.80	1.48				0.00	0.00	17.0
40.00	39.75	125.0	30.0	50.0	0.0	5	0.0	0.8	2.43	1.50	0.9	1.3	26.2	31.8		963.8	1,804.4	4.34	2.9	0.55	1.0	0.79	1.41	0.93	1.00	0.41	1.30		0.80	1.50				0.00	0.00	17.0
40.50	40.25	125.0	34.6	50.0	0.0	5	0.0	0.9	2.46	1.52	0.9	1.3	30.4	36.0		985.1	1,884.9	4.45	2.9	0.56	1.0	0.78	1.45	0.92	1.00	0.40	1.30		0.81	1.52				0.00	0.00	19.0
41.00	40.75	125.0	34.6	50.0	0.0	5	0.0	0.9	2.49	1.53	0.9	1.3	30.3	35.9		986.6	1,890.7	4.47	2.9	0.56	1.0	0.78	1.45	0.92	1.00	0.40	1.30		0.82	1.53				0.00	0.00	19.0
41.50	41.25	125.0	34.7	50.0	0.0	5	0.0	0.9	2.52	1.55	0.9	1.3	30.2	35.8		988.3	1,897.2	4.50	2.9	0.56	1.0	0.78	1.45	0.92	1.00	0.40	1.30		0.82	1.55				0.00	0.00	19.0
42.00	41.75	125.0	34.7	50.0	0.0	5	0.0	0.9	2.55	1.56	0.9	1.3	30.1	35.7		989.8	1,903.2	4.53	2.9	0.55	1.0	0.77	1.45	0.91	1.00	0.40	1.30		0.83	1.56				0.00	0.00	19.0
42.50	42.25	125.0	34.7	50.0	0.0	5	0.0	0.9	2.58	1.58	0.9	1.3	30.0	35.6		991.3	1,909.0	4.55	2.9	0.55	1.0	0.77	1.45	0.91	1.00	0.40	1.30		0.84	1.58				0.00	0.00	19.0
43.00	42.75	125.0	34.7	50.0	0.0	5	0.0	0.9	2.62	1.59	0.9	1.3	29.8	35.5		992.7	1,914.4	4.58	2.9	0.55	1.0	0.77	1.45	0.91	1.00	0.40	1.30		0.84	1.59				0.00	0.00	19.0
43.50	43.25	125.0	34.6	50.0	0.0	5	0.0	0.9	2.65	1.61	0.9	1.3	29.7	35.3		994.1	1,919.6	4.60	2.9	0.54	1.0	0.76	1.45	0.91	1.00	0.40	1.30		0.85	1.61				0.00	0.00	19.0
44.00	43.75	125.0	34.6	50.0	0.0	5	0.0	0.9	2.68	1.63	0.9	1.3	29.6	35.2		995.4	1,924.9	4.63	2.8	0.54	1.0	0.76	1.45	0.91	1.00	0.40	1.30		0.86	1.63				0.00	0.00	19.0
44.50	44.25	125.0	34.6	50.0	0.0	5	0.0	0.9	2.71	1.64	0.9	1.3	29.4	35.0		996.8	1,930.0	4.65	2.8	0.54	1.0	0.76	1.45	0.91	1.00	0.40	1.30		0.86	1.64				0.00	0.00	19.0
45.00	44.75	125.0	34.6	50.0	0.0	5	0.0	0.9	2.74	1.66	0.8	1.3	29.3	34.9		998.1	1,935.1	4.68	2.8	0.53	1.0	0.75	1.45	0.91	1.00	0.40	1.30		0.87	1.66				0.00	0.00	19.0
45.50	45.25	125.0	34.5	50.0	0.0	5	0.0	0.9	2.77	1.67	0.8	1.3	29.2	34.8		999.4	1,940.2	4.70	2.8	0.53	1.0	0.75	1.45	0.90	1.00	0.40	1.30		0.88	1.67				0.00	0.00	19.0
46.00	45.75	125.0	34.5	50.0	0.0	5	0.0	0.9	2.80	1.69	0.8	1.3	29.0	34.6		1,000.7	1,945.2	4.73	2.8	0.53	1.0	0.75	1.45	0.90	1.00	0.40	1.30		0.88	1.69				0.00	0.00	19.0
46.50	46.25	125.0	34.5	50.0	0.0	5	0.0	0.9	2.83	1.70	0.8	1.3	28.9	34.5		1,002.0	1,950.1	4.75	2.8	0.52	1.0	0.74	1.45	0.90	1.00	0.40	1.30		0.89	1.70				0.00	0.00	19.0
47.00	46.75	125.0	34.5	50.0	0.0	5	0.0	0.9	2.87	1.72	0.8	1.3	28.8	34.4		1,003.2	1,955.1	4.77	2.8	0.52	1.0	0.74	1.45	0.90	1.00	0.40	1.30		0.89	1.72				0.00	0.00	19.0
47.50	47.25	125.0	34.4	50.0	0.0	5	0.0	0.9	2.90	1.73	0.8	1.3	28.6	34.2		1,004.5	1,959.9	4.80	2.8	0.52	1.0	0.74	1.45	0.90	1.00	0.40	1.30		0.90	1.73				0.00	0.00	19.0
48.00	47.75	125.0	34.4	50.0	0.0	5	0.0	0.9	2.93	1.75	0.8	1.3	28.5	34.1		1,005.7	1,964.7	4.82	2.8	0.51	1.0	0.73	1.45	0.90	1.00	0.40	1.30		0.91	1.75				0.00	0.00	19.0
48.50	48.25	125.0	34.4	50.0	0.0	5	0.0	0.9	2.96	1.77	0.8	1.3	28.4	34.0		1,006.9	1,969.5	4.84	2.7	0.51	1.0	0.73	1.45	0.90	1.00	0.40	1.30		0.91	1.77				0.00	0.00	19.0
49.00	48.75	125.0	34.4	50.0	0.0	5	0.0	0.9	2.99	1.78	0.8	1.3	28.2	33.9		1,008.1	1,974.2	4.87	2.7	0.51	1.0	0.73	1.45	0.89	1.00	0.40	1.30		0.92	1.78				0.00	0.00	19.0
49.50	49.25	125.0	34.3	50.0	0.0	5	0.0	0.9	3.02	1.80	0.8	1.3	28.1	33.7		1,009.3	1,978.8	4.89	2.7	0.50	1.0	0.73	1.45	0.89	1.00	0.40	1.30		0.92	1.80				0.00	0.00	19.0
50.00	49.75	125.0	34.3	50.0	0.0	5	0.0	0.9	3.05	1.81	0.8	1.3	28.0	33.6		1,010.5	1,983.5	4.91	2.7	0.50	1.0	0.72	1.45	0.89	1.00	0.40	1.30		0.93	1.81				0.00	0.00	19.0
50.50	50.25	125.0	34.3	50.0	0.0	5	0.0	0.9	3.08	1.83	0.8	1.3	27.8	33.5		1,011.6	1,988.0	4.94	2.7	0.50	1.0	0.72	1.45	0.89	1.00	0.40	1.30		0.93	1.83				0.00	0.00	19.0
51.00	50.75	125.0	34.2	50.0	0.0	5	0.0	0.9	3.12	1.84	0.8	1.3	27.7	33.3		1,012.8	1,992.6	4.96	2.7	0.50	1.0	0.72	1.45	0.89	1.00	0.40	1.30		0.94	1.84				0.00	0.00	19.0
51.50	51.25	125.0	34.2	50.0	0.0	5	0.0	0.9	3.15	1.86	0.8	1.3	27.6	33.2		1,013.9	1,997.1	4.98	2.7	0.49	1.0	0.71	1.45	0.89	1.00	0.40	1.30		0.95	1.86				0.00	0.00	19.0

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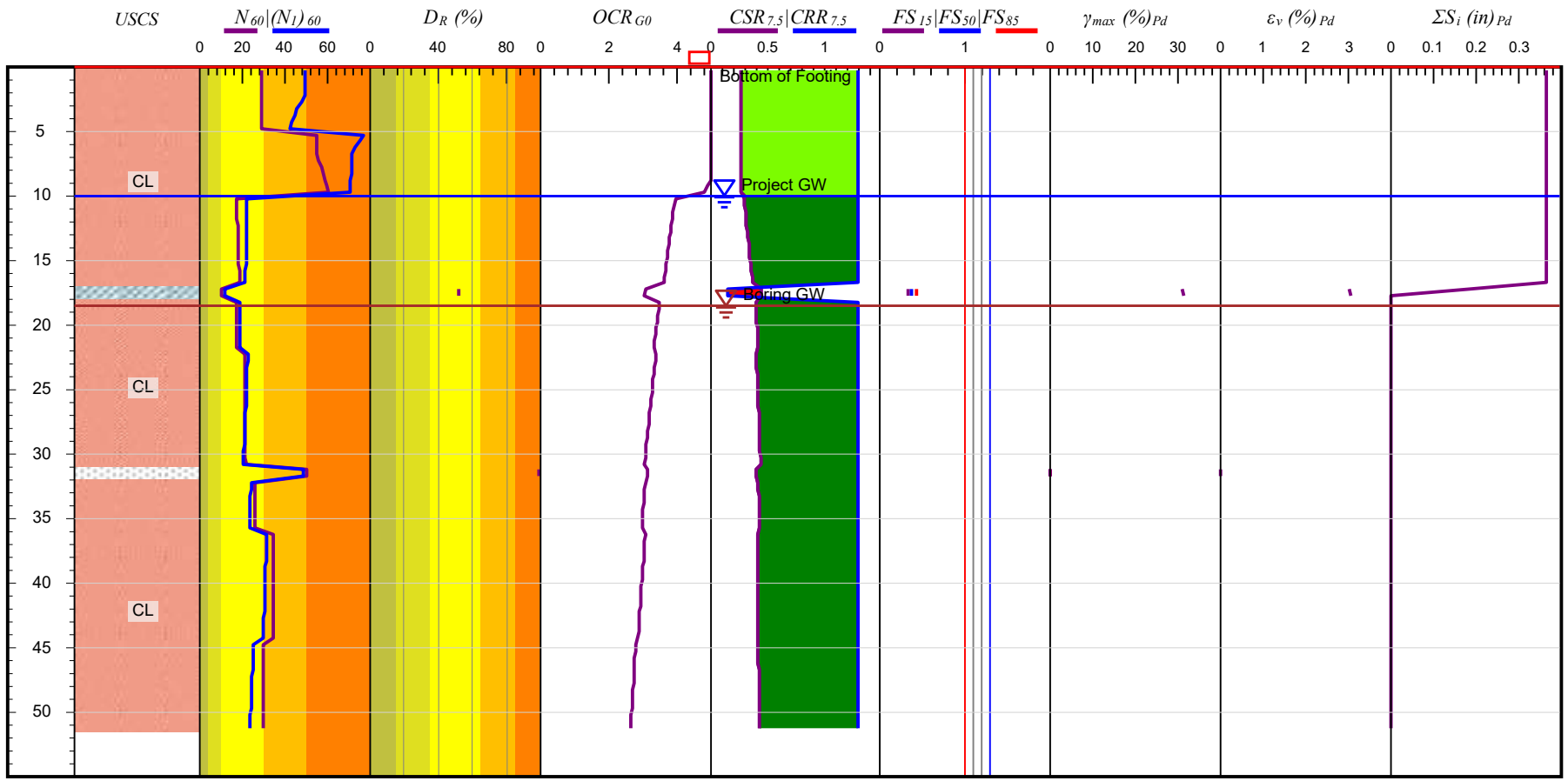

CL

SC

SM

Silt Correction:
$K=(1\text{-}FC)^{0.75}$

Earthquake & Groundwater Information:
Magnitude = 6.54
Max. Acceleration = 0.648 g
Project GW = 10 ft
Maximum Settlement = 0.36 in
Settl. at Bottom of Footing = 0.36 in

Liquefaction: Boulanger & Idriss (2010-16)
Settl.: [dry] Pradel (1998); [sat] Idriss & Boulanger (2008)
Lateral spreading: Idriss & Boulanger (2008)
M correction: [Sand; Clay] Boulanger & Idriss(2004)
σv correction: Idriss & Boulanger (2008)
Stress reduction: Idriss & Boulanger (2008)

GORIAN & ASSOCIATES, INC

Seismic Settlement Potential - SPT Data

Project:	Canoga Park High School Modernization				
Location:	6850 Topanga Canyon Blvd.				
Project No.:	2880-83-3-100	Boring No.:	B-13	Figure:	7

X:\2880-0-0-LA Unified Sch Dist-Master File\2880-83 Canoga Park High Sch\2880-83-3 Comprensive Modernization\Seismic Settlement\GeoSuite_2880-83-3-100_B-13.csv

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Z_b (ft)	Z_m (ft)	γ (pcf)	N_{60}	FC(%)	CC(%)	USCS	φ (°)	C' (tsf)	σ_{v0} (tsf)	σ_{v0}' (tsf)	C_N	C_s	$(N_1)_{60}$	$(N_1)_{60cs}$	D_R (%)	V_s (ft/s)	G_0 (tsf)	σ_p' (tsf)	OCR_{G0}	S_u/σ_{v0}'	K_0	r_d	MSF	K_σ	K_α	$CSR_{7.5}$	$CRR_{7.5}$	FS	τ_{av} (tsf)	p (tsf)	G/G_0	γ_{max} (%)	ε_v (%)	ΔS_i	ΣS_i (in)	N
0.50	0.25	115.0	29.0	50.0	0.0	5	0.0	0.0	0.01	0.01	1.7	1.3	49.3	54.9		832.1	1,237.3	0.07	5.0	0.80	1.0	1.00	1.43	1.10	1.00	0.27	1.30		0.01	0.01	0.0000			0.00	0.36	21.0
1.00	0.75	115.0	29.0	50.0	0.0	5	0.0	0.0	0.04	0.04	1.7	1.3	49.3	54.9		826.9	1,222.0	0.22	5.0	0.80	1.0	1.00	1.43	1.10	1.00	0.27	1.30		0.02	0.04	0.0000			0.00	0.36	21.0
1.50	1.25	115.0	29.0	50.0	0.0	5	0.0	0.1	0.07	0.07	1.7	1.3	49.3	54.9		822.0	1,207.6	0.36	5.0	0.80	1.0	1.00	1.43	1.10	1.00	0.27	1.30		0.03	0.07	0.0000			0.00	0.36	21.0
2.00	1.75	115.0	29.0	50.0	0.0	5	0.0	0.1	0.10	0.10	1.7	1.3	49.3	54.9		817.3	1,193.9	0.50	5.0	0.80	1.0	1.00	1.43	1.10	1.00	0.27	1.30		0.04	0.10	0.0000			0.00	0.36	21.0
2.50	2.25	115.0	29.0	50.0	0.0	5	0.0	0.1	0.13	0.13	1.7	1.3	49.3	54.9		812.8	1,180.8	0.65	5.0	0.80	1.0	0.99	1.43	1.10	1.00	0.27	1.30		0.05	0.13	0.0000			0.00	0.36	21.0
3.00	2.75	115.0	29.0	50.0	0.0	5	0.0	0.1	0.16	0.16	1.6	1.3	47.8	53.4		808.5	1,168.4	0.79	5.0	0.80	1.0	0.99	1.43	1.10	1.00	0.27	1.30		0.07	0.16	0.0000			0.00	0.36	21.0
3.50	3.25	115.0	29.0	50.0	0.0	5	0.0	0.1	0.19	0.19	1.6	1.3	45.8	51.4		804.4	1,156.5	0.93	5.0	0.80	1.0	0.99	1.43	1.10	1.00	0.27	1.30		0.08	0.19	0.0000			0.00	0.36	21.0
4.00	3.75	115.0	29.0	50.0	0.0	5	0.0	0.2	0.22	0.22	1.5	1.3	44.6	50.2		800.5	1,145.1	1.08	5.0	0.80	1.0	0.99	1.43	1.10	1.00	0.26	1.30		0.09	0.22	0.0000			0.00	0.36	21.0
4.50	4.25	115.0	29.0	50.0	0.0	5	0.0	0.2	0.24	0.24	1.5	1.3	43.5	49.1		796.6	1,134.2	1.22	5.0	0.80	1.0	0.99	1.43	1.10	1.00	0.26	1.30		0.10	0.24	0.0000			0.00	0.36	21.0
5.00	4.75	115.0	29.0	50.0	0.0	5	0.0	0.2	0.27	0.27	1.5	1.3	42.5	48.2		793.0	1,123.8	1.37	5.0	0.80	1.0	0.99	1.43	1.10	1.00	0.26	1.30		0.11	0.27	0.0000			0.00	0.36	21.0
5.50	5.25	120.0	55.2	50.0	0.0	5	0.0	0.2	0.30	0.30	1.4	1.3	76.8	82.4		854.9	1,363.0	1.51	5.0	0.80	1.0	0.98	1.43	1.10	1.00	0.26	1.30		0.13	0.30	0.0000			0.00	0.36	40.0
6.00	5.75	120.0	55.2	50.0	0.0	5	0.0	0.3	0.33	0.33	1.4	1.3	74.9	80.5		850.9	1,350.3	1.66	5.0	0.80	1.0	0.98	1.43	1.10	1.00	0.26	1.30		0.14	0.33	0.0000			0.00	0.36	40.0
6.50	6.25	120.0	55.2	50.0	0.0	5	0.0	0.3	0.36	0.36	1.3	1.3	73.2	78.9		847.0	1,338.0	1.81	5.0	0.80	1.0	0.98	1.43	1.10	1.00	0.26	1.30		0.15	0.36	0.0000			0.00	0.36	40.0
7.00	6.75	120.0	55.2	50.0	0.0	5	0.0	0.3	0.39	0.39	1.3	1.3	71.7	77.3		858.1	1,373.2	1.96	5.0	0.80	1.0	0.98	1.43	1.10	1.00	0.26	1.30		0.16	0.39	0.0000			0.00	0.36	40.0
7.50	7.25	120.0	55.9	50.0	0.0	5	0.0	0.3	0.42	0.42	1.3	1.3	71.2	76.8		872.0	1,417.9	2.11	5.0	0.80	1.0	0.97	1.43	1.10	1.00	0.26	1.30		0.17	0.42	0.0000			0.00	0.36	40.0
8.00	7.75	120.0	56.9	50.0	0.0	5	0.0	0.4	0.45	0.45	1.3	1.3	71.1	76.7		885.7	1,462.9	2.26	5.0	0.80	1.0	0.97	1.43	1.10	1.00	0.26	1.30		0.19	0.45	0.0000			0.00	0.36	40.0
8.50	8.25	120.0	57.7	50.0	0.0	5	0.0	0.4	0.48	0.48	1.2	1.3	71.0	76.6		898.5	1,505.6	2.41	5.0	0.80	1.0	0.97	1.43	1.10	1.00	0.26	1.30		0.20	0.48	0.0000			0.00	0.36	40.0
9.00	8.75	120.0	58.6	50.0	0.0	5	0.0	0.4	0.51	0.51	1.2	1.3	70.9	76.5		910.6	1,546.2	2.56	5.0	0.80	1.0	0.97	1.43	1.10	1.00	0.26	1.30		0.21	0.51	0.0000			0.00	0.36	40.0
9.50	9.25	120.0	59.3	50.0	0.0	5	0.0	0.4	0.54	0.54	1.2	1.3	70.7	76.3		921.9	1,585.0	2.66	4.9	0.80	1.0	0.97	1.43	1.10	1.00	0.26	1.30		0.22	0.54	0.0000			0.00	0.36	40.0
10.00	9.75	120.0	60.0	50.0	0.0	5	0.0	0.5	0.57	0.57	1.2	1.3	70.5	76.2		932.6	1,622.1	2.75	4.8	0.80	1.0	0.96	1.43	1.10	1.00	0.26	1.30		0.23	0.57	0.0000			0.00	0.36	40.0
10.50	10.25	115.0	17.1	50.0	0.0	5	0.0	0.5	0.60	0.59	1.3	1.2	21.8	27.4		793.2	1,124.4	2.35	3.9	0.80	1.0	0.96	1.30	1.09	1.00	0.29	1.30		0.24	0.59				0.00	0.36	12.0
11.00	10.75	115.0	17.2	50.0	0.0	5	0.0	0.5	0.63	0.61	1.3	1.2	21.8	27.4		797.6	1,137.0	2.38	3.9	0.80	1.0	0.96	1.31	1.09	1.00	0.30	1.30		0.25	0.61				0.00	0.36	12.0
11.50	11.25	115.0	17.4	50.0	0.0	5	0.0	0.5	0.66	0.62	1.3	1.2	21.8	27.5		801.9	1,149.1	2.41	3.9	0.80	1.0	0.96	1.31	1.08	1.00	0.30	1.30		0.27	0.62				0.00	0.36	12.0
12.00	11.75	115.0	17.6	50.0	0.0	5	0.0	0.5	0.69	0.63	1.2	1.2	21.8	27.5		806.0	1,160.9	2.45	3.9	0.80	1.0	0.95	1.31	1.08	1.00	0.31	1.30		0.28	0.63				0.00	0.36	12.0
12.50	12.25	115.0	17.7	50.0	0.0	5	0.0	0.5	0.72	0.65	1.2	1.2	21.8	27.4		809.9	1,172.4	2.48	3.8	0.80	1.0	0.95	1.31	1.08	1.00	0.32	1.30		0.29	0.65				0.00	0.36	12.0
13.00	12.75	115.0	17.8	50.0	0.0	5	0.0	0.5	0.75	0.66	1.2	1.2	21.8	27.4		813.8	1,183.5	2.51	3.8	0.80	1.0	0.95	1.30	1.07	1.00	0.32	1.30		0.30	0.66				0.00	0.36	12.0
13.50	13.25	115.0	18.0	50.0	0.0	5	0.0	0.5	0.77	0.67	1.2	1.2	21.8	27.4		817.5	1,194.4	2.54	3.8	0.80	1.0	0.95	1.30	1.07	1.00	0.33	1.30		0.31	0.67				0.00	0.36	12.0
14.00	13.75	115.0	18.1	50.0	0.0	5	0.0	0.5	0.80	0.69	1.2	1.2	21.8	27.4		821.1	1,205.0	2.58	3.8	0.80	1.0	0.94	1.30	1.07	1.00	0.33	1.30		0.32	0.69				0.00	0.36	12.0
14.50	14.25	115.0	18.2	50.0	0.0	5	0.0	0.6	0.83	0.70	1.2	1.2	21.7	27.3		824.7	1,215.4	2.61	3.7	0.80	1.0	0.94	1.30	1.07	1.00	0.34	1.30		0.33	0.70				0.00	0.36	12.0
15.00	14.75	115.0	18.3	50.0	0.0	5	0.0	0.6	0.86	0.71	1.2	1.2	21.7	27.3		828.1	1,225.5	2.64	3.7	0.80	1.0	0.94	1.30	1.06	1.00	0.35	1.30		0.34	0.71				0.00	0.36	12.0
15.50	15.25	115.0	18.4	50.0	0.0	5	0.0	0.6	0.89	0.73	1.2	1.2	21.6	27.2		831.4	1,235.4	2.67	3.7	0.80	1.0	0.94	1.30	1.06	1.00	0.35	1.30		0.35	0.73				0.00	0.36	12.0
16.00	15.75	115.0	18.5	50.0	0.0	5	0.0	0.6	0.92	0.74	1.2	1.2	21.6	27.2		834.7	1,245.1	2.70	3.7	0.80	1.0	0.93	1.30	1.06	1.00	0.36	1.30		0.36	0.74				0.00	0.36	12.0
16.50	16.25	115.0	18.6	50.0	0.0	5	0.0	0.6	0.95	0.75	1.2	1.2	21.5	27.1		837.9	1,254.6	2.73	3.6	0.80	1.0	0.93	1.30	1.05	1.00	0.36	1.30		0.37	0.75				0.00	0.36	12.0
17.00	16.75	115.0	18.7	50.0	0.0	5	0.0	0.6	0.98	0.77	1.1	1.2	21.4	27.1		840.9	1,263.9	2.76	3.6	0.80	1.0	0.93	1.30	1.05	1.00	0.37	1.30		0.38	0.77				0.00	0.36	12.0
17.50	17.25	120.0	10.1	12.0	0.0	9	31.5	0.0	1.01	0.78	1.2	1.1	11.8	13.9	51.7	702.1	919.3	2.39	3.1		0.9	0.93	1.10	1.03	1.00	0.44	0.15	0.33	0.39	0.70		31.034	3.0343	0.18	0.18	7.0
18.00	17.75	120.0	10.1	12.0	0.0	9	31.5	0.0	1.04	0.79	1.2	1.1	11.7	13.8	51.5	704.2	924.8	2.41	3.0		0.9	0.92	1.10	1.03	1.00	0.45	0.15	0.33	0.40	0.72		31.279	3.0453	0.18	0.00	7.0
18.50	18.25	120.0	17.0	50.0	0.0	5	0.0	0.6	1.07	0.81	1.1	1.2	19.2	24.8		820.4	1,255.3	2.81	3.5	0.75	1.0	0.92	1.26	1.04	1.00	0.39	1.30		0.41	0.81				0.00	0.00	11.0
19.00	18.75	120.0	17.1	50.0	0.0	5	0.0	0.6	1.10	0.82	1.1	1.2	19.1	24.7		823.5	1,264.6	2.84	3.5	0.74	1.0	0.92	1.25	1.04	1.00	0.40	1.30		0.42	0.82				0.00	0.00	11.0
19.50	19.25	120.0	17.1	50.0	0.0	5	0.0	0.6	1.13	0.84	1.1	1.2	19.0	24.6		826.4	1,273.5	2.87	3.4	0.74	1.0	0.91	1.25	1.03	1.00	0.40	1.30		0.43	0.84				0.00	0.00	11.0
20.00	19.75	120.0	17.2	50.0	0.0	5	0.0	0.6	1.16	0.85	1.1	1.2	18.9	24.6		829.2	1,282.1	2.90	3.4	0.73	1.0	0.91	1.25	1.03	1.00	0.40	1.30		0.44	0.85				0.00	0.00	11.0
20.50	20.25	120.0	17.2	50.0	0.0	5	0.0	0.6	1.19	0.87	1.1	1.2	18.9	24.5		831.9	1,290.6	2.93	3.4	0.72	1.0	0.91	1.25	1.03	1.00	0.41	1.30		0.45	0.87				0.00	0.00	11.0
21.00	20.75	120.0	17.3	50.0	0.0	5	0.0	0.6	1.22	0.88	1.1	1.2	18.8	24.4		834.6	1,298.9	2.96	3.4	0.72	1.0	0.91	1.25	1.03	1.00	0.41	1.30		0.46	0.88				0.00	0.00	11.0
21.50	21.25	120.0	17.3	50.0	0.0	5	0.0	0.6	1.25	0.89	1.1	1.2	18.7	24.3		837.2	1,307.1	2.99	3.3	0.71	1.0	0.90	1.25	1.02	1.00	0.42	1.30		0.47	0.89				0.00	0.00	11.0
22.00	21.75	120.0	17.3	50.0	0.0	5	0.0	0.6	1.28	0.91	1.1	1.2	18.6	24.2		839.8	1,315.2	3.02	3.3	0.70	1.0	0.90	1.24	1.02	1.00	0.42	1.30		0.48	0.91				0.00	0.00	11.0
22.50	22.25	125.0	21.2	50.0	0.0	5	0.0	0.6	1.31	0.92	1.1	1.2	22.5	28.1		848.4	1,398.2	3.13	3.4	0.70	1.0	0.90	1.32	1.02	1.00	0.40	1.30		0.49	0.92				0.00	0.00	13.0
23.00	22.75	125.0	21.3	50.0	0.0	5	0.0	0.7	1.34	0.94	1.1	1.2	22.4	28.0		851.2	1,407.3	3.16	3.4	0.69	1.0	0.89	1.32	1.02	1.00	0.40	1.30		0.50	0.94				0.00	0.00	13.0
23.50	23.25	125.0	21.3	50.0	0.0	5	0.0	0.7	1.37	0.95	1.0	1.2	22.2	27.9		853.7	1,415.9	3.20	3.3	0.69	1.0	0.89	1.31	1.02	1.00	0.40	1.30		0.51	0.95				0.00	0.00	13.0
24.00	23.75	125.0	21.3	50.0	0.0	5	0.0	0.7	1.40	0.97	1.0	1.2	22.1	27.7		856.3	1,424.2	3.23	3.3	0.68	1.0	0.89	1.31	1.01	1.00	0.41	1.30		0.52	0.97				0.00	0.00	13.0
24.50	24.25	125.0	21.4	50.0	0.0	5	0.0	0.7	1.43	0.99	1.0	1.2	22.0	27.6		858.7	1,432.5	3.26	3.3	0.67	1.0	0.88	1.31	1.01	1.00	0.41	1.30		0.53	0.99				0.00	0.00	13.0
25.00	24.75	125.0	21.4	50.0	0.0	5	0.0	0.7	1.46	1.00	1.0	1.2	21.9	27.5		861.3	1,440.9	3.29	3.3	0.67	1.0	0.88	1.31	1.01	1.00	0.41	1.30		0.54	1.00				0.00	0.00	13.0
25.50	25.25	125.0	21.4	50.0	0.0	5	0.0	0.7	1.49	1.02	1.0	1.2	21.8	27.4		863.6	1,448.8	3.32	3.3	0.66	1.0	0.88	1.30	1.01	1.00	0.41	1.30		0.55	1.02				0.00	0.00	13.0
26.00	25.75	125.0	21.4	50.0	0.0	5	0.0	0.7	1.52	1.03	1.0	1.2	21.7	27.3		865.9	1,456.6	3.35	3.2	0.66	1.0	0.88	1.30	1.00	1.00	0.42	1.30		0.56	1.03				0.00	0.00	13.0
26.50	26.25	125.0	21.5	50.0	0.0	5	0.0	0.7	1.56	1.05	1.0	1.2	21.6	27.2		868.3	1,464.6	3.38	3.2	0.65	1.0	0.87	1.30	1.00	1.00	0.42	1.30		0.57	1.05				0.00	0.00	13.0
27.00	26.75	125.0	21.5	50.0	0.0	5	0.0	0.7	1.59	1.06	1.0	1.2	21.4	27.0		870.5	1,471.9	3.41	3.2	0.65	1.0	0.87	1.30	1.00	1.00	0.42	1.30		0.58	1.06				0.00	0.00	13.0
27.50	27.25	125.0	21.5	50.0	0.0	5	0.0	0.7	1.62	1.08	1.0	1.2	21.3	26.9		872.6	1,479.3	3.44	3.2	0.64	1.0	0.87	1.29	1.00	1.00	0.42	1.30		0.59	1.08				0.00	0.00	13.0
28.00	27.75	125.0	21.5	50.0	0.0	5	0.0	0.7	1.65	1.10	1.0	1.2	21.2	26.8		874.8	1,486.6	3.47	3.2	0.63	1.0	0.86	1.29	0.99	1.00	0.43	1.30		0.60	1.10				0.00	0.00	13.0
28.50	28.25	125.0	21.5	50.0	0.0	5	0.0	0.7	1.68	1.11	1.0	1.2	21.1	26.7		876.9	1,493.8	3.49	3.1	0.63	1.0	0.86	1.29	0.99	1.00	0.43	1.30		0.61	1.11				0.00	0.00	13.0
29.00	28.75	125.0	21.5	50.0	0.0	5	0.0	0.7	1.71	1.13	1.0	1.2	20.9	26.6		879.0	1,500.9	3.52	3.1	0.62	1.0	0.86	1.29	0.99	1.00	0.43	1.30		0.62	1.13				0.00	0.00	13.0
29.50	29.25	125.0	21.5	50.0	0.0	5	0.0	0.7	1.74	1.14	1.0	1.2	20.8	26.4		881.1	1,508.0	3.55	3.1	0.62	1.0	0.85	1.29	0.99	1.00	0.43	1.30		0.63	1.14				0.00	0.00	13.0
30.00	29.75	125.0	21.5	50.0	0.0	5	0.0	0.7	1.77	1.16	1.0	1.2	20.7	26.3		883.1	1,514.9	3.58	3.1	0.61	1.0	0.85	1.28	0.99	1.00	0.43	1.30		0.64	1.16				0.00	0.00	13.0
30.50	30.25	125.0	21.6	50.0	0.0	5	0.0	0.7	1.81	1.17	1.0	1.2	20.6	26.2		885.1	1,521.7	3.61	3.1	0.61	1.0	0.85	1.28	0.98	1.00	0.44	1.30		0.64	1.17				0.00	0.00	13.0
31.00	30.75	125.0	21.6	50.0	0.0	5	0.0	0.7	1.84	1.19	1.0	1.2	20.5	26.1		887.1	1,528.9	3.64	3.1	0.60	1.0	0.84	1.28	0.98	1.00	0.44	1.30		0.65	1.19				0.00	0.00	13.0
31.50	31.25	125.0	50.2	12.0	0.0	12	40.5	0.1	1.87	1.21	1.0	1.3	48.5	50.6	98.6	926.2	1,666.5	3.81	3.2		0.7	0.84	1.43	0.96	1.00	0.40	1.30	2.00	0.66	1.00		0.000	0.0000	0.00	0.00	28.0
32.00	31.75	125.0	50.3	12.0	0.0	12	40.5	0.1	1.90	1.22	1.0	1.3	48.4	50.5	98.5	927.6	1,671.6	3.84	3.1		0.7	0.84	1.43	0.96	1.00	0.40	1.30	2.00	0.67	1.01		0.000	0.0000	0.00	0.00	28.0
32.50	32.25	125.0	25.8	50.0	0.0	5	0.0	0.8	1.93	1.24	0.9	1.2	24.2	29.8		915.0	1,626.4	3.81	3.1	0.61	1.0	0.84	1.35	0.97	1.00	0.42	1.30		0.68	1.24				0.00	0.00	15.0
33.00	32.75	125.0	25.7	50.0	0.0	5	0.0	0.8	1.96	1.25	0.9	1.2	24.0	29.7		916.7	1,632.6	3.83	3.1	0.60	1.0	0.83	1.35	0.97	1.00	0.42	1.30		0.69	1.25				0.00	0.00	15.0
33.50	33.25	125.0	25.7	50.0	0.0	5	0.0	0.8	1.99	1.27	0.9	1.2	23.9	29.5		918.6	1,639.1	3.86	3.0	0.60	1.0	0.83	1.35	0.97	1.00	0.42	1.30		0.70	1.27				0.00	0.00	15.0
34.00	33.75	125.0	25.7	50.0	0.0	5	0.0	0.8	2.02	1.28	0.9	1.2	23.8	29.4		920.4	1,645.5	3.89	3.0	0.59	1.0	0.83	1.35	0.97	1.00	0.42	1.30		0.70	1.28				0.00	0.00	15.0
34.50	34.25	125.0	25.7	50.0	0.0	5	0.0	0.8	2.06	1.30	0.9	1.2	23.7	29.3		922.1	1,651.9	3.92	3.0	0.59	1.0	0.82	1.34	0.97	1.00	0.42	1.30		0.71	1.30				0.00	0.00	15.0

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Z_b (ft)	Z_m (ft)	γ (pcf)	N_{60}	FC(%)	CC(%)	USCS	φ (°)	C' (tsf)	σ_{v0} (tsf)	σ_{v0}' (tsf)	C_N	C_s	$(N_1)_{60}$	$(N_1)_{60cs}$	D_R (%)	V_s (ft/s)	G_0 (tsf)	σ_p' (tsf)	OCR_{G0}	S_u/σ_{v0}'	K_0	r_d	MSF	K_σ	K_α	$CSR_{7.5}$	$CRR_{7.5}$	FS	τ_{av} (tsf)	p (tsf)	G/G_0	γ_{max} (%)	ε_v (%)	ΔS_i	ΣS_i (in)	N
35.00	34.75	125.0	25.7	50.0	0.0	5	0.0	0.8	2.09	1.31	0.9	1.2	23.5	29.2		923.9	1,658.1	3.94	3.0	0.58	1.0	0.82	1.34	0.96	1.00	0.42	1.30		0.72	1.31				0.00	0.00	15.0
35.50	35.25	125.0	25.7	50.0	0.0	5	0.0	0.8	2.12	1.33	0.9	1.2	23.4	29.0		925.6	1,664.3	3.97	3.0	0.58	1.0	0.82	1.34	0.96	1.00	0.43	1.30		0.73	1.33				0.00	0.00	15.0
36.00	35.75	125.0	25.7	50.0	0.0	5	0.0	0.8	2.15	1.35	0.9	1.2	23.3	28.9		927.3	1,670.4	4.00	3.0	0.58	1.0	0.81	1.34	0.96	1.00	0.43	1.30		0.74	1.35				0.00	0.00	15.0
36.50	36.25	125.0	34.4	50.0	0.0	5	0.0	0.8	2.18	1.36	0.9	1.3	31.5	37.1		968.3	1,821.4	4.18	3.1	0.60	1.0	0.81	1.43	0.94	1.00	0.41	1.30		0.74	1.36				0.00	0.00	19.0
37.00	36.75	125.0	34.5	50.0	0.0	5	0.0	0.8	2.21	1.38	0.9	1.3	31.4	37.0		970.1	1,828.2	4.21	3.1	0.60	1.0	0.81	1.43	0.94	1.00	0.41	1.30		0.75	1.38				0.00	0.00	19.0
37.50	37.25	125.0	34.5	50.0	0.0	5	0.0	0.8	2.24	1.39	0.9	1.3	31.3	36.9		971.9	1,835.0	4.24	3.0	0.59	1.0	0.80	1.43	0.94	1.00	0.41	1.30		0.76	1.39				0.00	0.00	19.0
38.00	37.75	125.0	34.5	50.0	0.0	5	0.0	0.8	2.27	1.41	0.9	1.3	31.2	36.8		973.7	1,841.7	4.27	3.0	0.59	1.0	0.80	1.43	0.93	1.00	0.41	1.30		0.77	1.41				0.00	0.00	19.0
38.50	38.25	125.0	34.5	50.0	0.0	5	0.0	0.8	2.31	1.42	0.9	1.3	31.1	36.7		975.4	1,848.3	4.29	3.0	0.58	1.0	0.80	1.43	0.93	1.00	0.41	1.30		0.77	1.42				0.00	0.00	19.0
39.00	38.75	125.0	34.6	50.0	0.0	5	0.0	0.8	2.34	1.44	0.9	1.3	30.9	36.6		977.2	1,854.8	4.32	3.0	0.58	1.0	0.79	1.43	0.93	1.00	0.41	1.30		0.78	1.44				0.00	0.00	19.0
39.50	39.25	125.0	34.6	50.0	0.0	5	0.0	0.8	2.37	1.46	0.9	1.3	30.8	36.5		978.9	1,861.3	4.35	3.0	0.58	1.0	0.79	1.43	0.93	1.00	0.41	1.30		0.79	1.46				0.00	0.00	19.0
40.00	39.75	125.0	34.6	50.0	0.0	5	0.0	0.8	2.40	1.47	0.9	1.3	30.7	36.3		980.5	1,867.7	4.37	3.0	0.57	1.0	0.79	1.43	0.93	1.00	0.41	1.30		0.80	1.47				0.00	0.00	19.0
40.50	40.25	125.0	34.6	50.0	0.0	5	0.0	0.8	2.43	1.49	0.9	1.3	30.6	36.2		982.2	1,874.0	4.40	3.0	0.57	1.0	0.78	1.43	0.92	1.00	0.41	1.30		0.80	1.49				0.00	0.00	19.0
41.00	40.75	125.0	34.6	50.0	0.0	5	0.0	0.8	2.46	1.50	0.9	1.3	30.5	36.1		983.8	1,880.3	4.43	2.9	0.57	1.0	0.78	1.43	0.92	1.00	0.41	1.30		0.81	1.50				0.00	0.00	19.0
41.50	41.25	125.0	34.7	50.0	0.0	5	0.0	0.9	2.49	1.52	0.9	1.3	30.4	36.0		985.5	1,886.5	4.45	2.9	0.56	1.0	0.78	1.43	0.92	1.00	0.41	1.30		0.82	1.52				0.00	0.00	19.0
42.00	41.75	125.0	34.7	50.0	0.0	5	0.0	0.9	2.52	1.53	0.9	1.3	30.3	35.9		987.0	1,892.3	4.48	2.9	0.56	1.0	0.77	1.43	0.92	1.00	0.41	1.30		0.82	1.53				0.00	0.00	19.0
42.50	42.25	125.0	34.7	50.0	0.0	5	0.0	0.9	2.56	1.55	0.9	1.3	30.2	35.8		988.6	1,898.7	4.51	2.9	0.55	1.0	0.77	1.43	0.92	1.00	0.41	1.30		0.83	1.55				0.00	0.00	19.0
43.00	42.75	125.0	34.7	50.0	0.0	5	0.0	0.9	2.59	1.57	0.9	1.3	30.1	35.7		990.2	1,904.7	4.53	2.9	0.55	1.0	0.77	1.43	0.91	1.00	0.41	1.30		0.84	1.57				0.00	0.00	19.0
43.50	43.25	125.0	34.7	50.0	0.0	5	0.0	0.9	2.62	1.58	0.9	1.3	30.0	35.6		991.7	1,910.5	4.56	2.9	0.55	1.0	0.77	1.43	0.91	1.00	0.41	1.30		0.84	1.58				0.00	0.00	19.0
44.00	43.75	125.0	34.7	50.0	0.0	5	0.0	0.9	2.65	1.60	0.9	1.3	29.9	35.5		993.1	1,915.8	4.58	2.9	0.54	1.0	0.76	1.43	0.91	1.00	0.41	1.30		0.85	1.60				0.00	0.00	19.0
44.50	44.25	125.0	34.7	50.0	0.0	5	0.0	0.9	2.68	1.61	0.9	1.3	29.7	35.3		994.4	1,921.0	4.61	2.9	0.54	1.0	0.76	1.43	0.91	1.00	0.41	1.30		0.86	1.61				0.00	0.00	19.0
45.00	44.75	125.0	29.9	50.0	0.0	5	0.0	0.9	2.71	1.63	0.8	1.3	25.2	30.8		975.5	1,848.5	4.54	2.8	0.53	1.0	0.76	1.38	0.92	1.00	0.42	1.30		0.86	1.63				0.00	0.00	17.0
45.50	45.25	125.0	29.9	50.0	0.0	5	0.0	0.9	2.74	1.64	0.8	1.3	25.1	30.7		976.8	1,853.4	4.57	2.8	0.52	1.0	0.75	1.37	0.92	1.00	0.42	1.30		0.87	1.64				0.00	0.00	17.0
46.00	45.75	125.0	29.9	50.0	0.0	5	0.0	0.9	2.77	1.66	0.8	1.2	25.0	30.6		978.1	1,858.4	4.59	2.8	0.52	1.0	0.75	1.37	0.92	1.00	0.42	1.30		0.88	1.66				0.00	0.00	17.0
46.50	46.25	125.0	29.9	50.0	0.0	5	0.0	0.9	2.81	1.67	0.8	1.2	24.8	30.5		979.4	1,863.4	4.61	2.8	0.52	1.0	0.75	1.37	0.92	1.00	0.42	1.30		0.88	1.67				0.00	0.00	17.0
47.00	46.75	125.0	29.9	50.0	0.0	5	0.0	0.9	2.84	1.69	0.8	1.2	24.7	30.3		980.7	1,868.3	4.64	2.7	0.51	1.0	0.74	1.37	0.92	1.00	0.42	1.30		0.89	1.69				0.00	0.00	17.0
47.50	47.25	125.0	29.8	50.0	0.0	5	0.0	0.9	2.87	1.71	0.8	1.2	24.6	30.2		982.0	1,873.1	4.66	2.7	0.51	1.0	0.74	1.36	0.92	1.00	0.42	1.30		0.89	1.71				0.00	0.00	17.0
48.00	47.75	125.0	29.8	50.0	0.0	5	0.0	0.9	2.90	1.72	0.8	1.2	24.5	30.1		983.2	1,877.9	4.69	2.7	0.51	1.0	0.74	1.36	0.92	1.00	0.42	1.30		0.90	1.72				0.00	0.00	17.0
48.50	48.25	125.0	29.8	50.0	0.0	5	0.0	0.9	2.93	1.74	0.8	1.2	24.4	30.0		984.5	1,882.7	4.71	2.7	0.50	1.0	0.73	1.36	0.91	1.00	0.42	1.30		0.91	1.74				0.00	0.00	17.0
49.00	48.75	125.0	29.8	50.0	0.0	5	0.0	0.9	2.96	1.75	0.8	1.2	24.3	29.9		985.7	1,887.4	4.73	2.7	0.50	1.0	0.73	1.36	0.91	1.00	0.42	1.30		0.91	1.75				0.00	0.00	17.0
49.50	49.25	125.0	29.8	50.0	0.0	5	0.0	0.9	2.99	1.77	0.8	1.2	24.1	29.8		986.9	1,892.1	4.76	2.7	0.50	1.0	0.73	1.35	0.91	1.00	0.42	1.30		0.92	1.77				0.00	0.00	17.0
50.00	49.75	125.0	29.7	50.0	0.0	5	0.0	0.9	3.02	1.78	0.8	1.2	24.0	29.6		988.1	1,896.7	4.78	2.7	0.50	1.0	0.73	1.35	0.91	1.00	0.42	1.30		0.92	1.78				0.00	0.00	17.0
50.50	50.25	125.0	29.7	50.0	0.0	5	0.0	0.9	3.06	1.80	0.8	1.2	23.9	29.5		989.3	1,901.3	4.80	2.7	0.49	1.0	0.72	1.35	0.91	1.00	0.42	1.30		0.93	1.80				0.00	0.00	17.0
51.00	50.75	125.0	29.7	50.0	0.0	5	0.0	0.9	3.09	1.82	0.8	1.2	23.8	29.4		990.5	1,905.8	4.82	2.7	0.49	1.0	0.72	1.35	0.91	1.00	0.42	1.30		0.93	1.82				0.00	0.00	17.0
51.50	51.25	125.0	29.7	50.0	0.0	5	0.0	0.9	3.12	1.83	0.8	1.2	23.7	29.3		991.7	1,910.3	4.85	2.6	0.49	1.0	0.72	1.34	0.91	1.00	0.42	1.30		0.94	1.83				0.00	0.00	17.0

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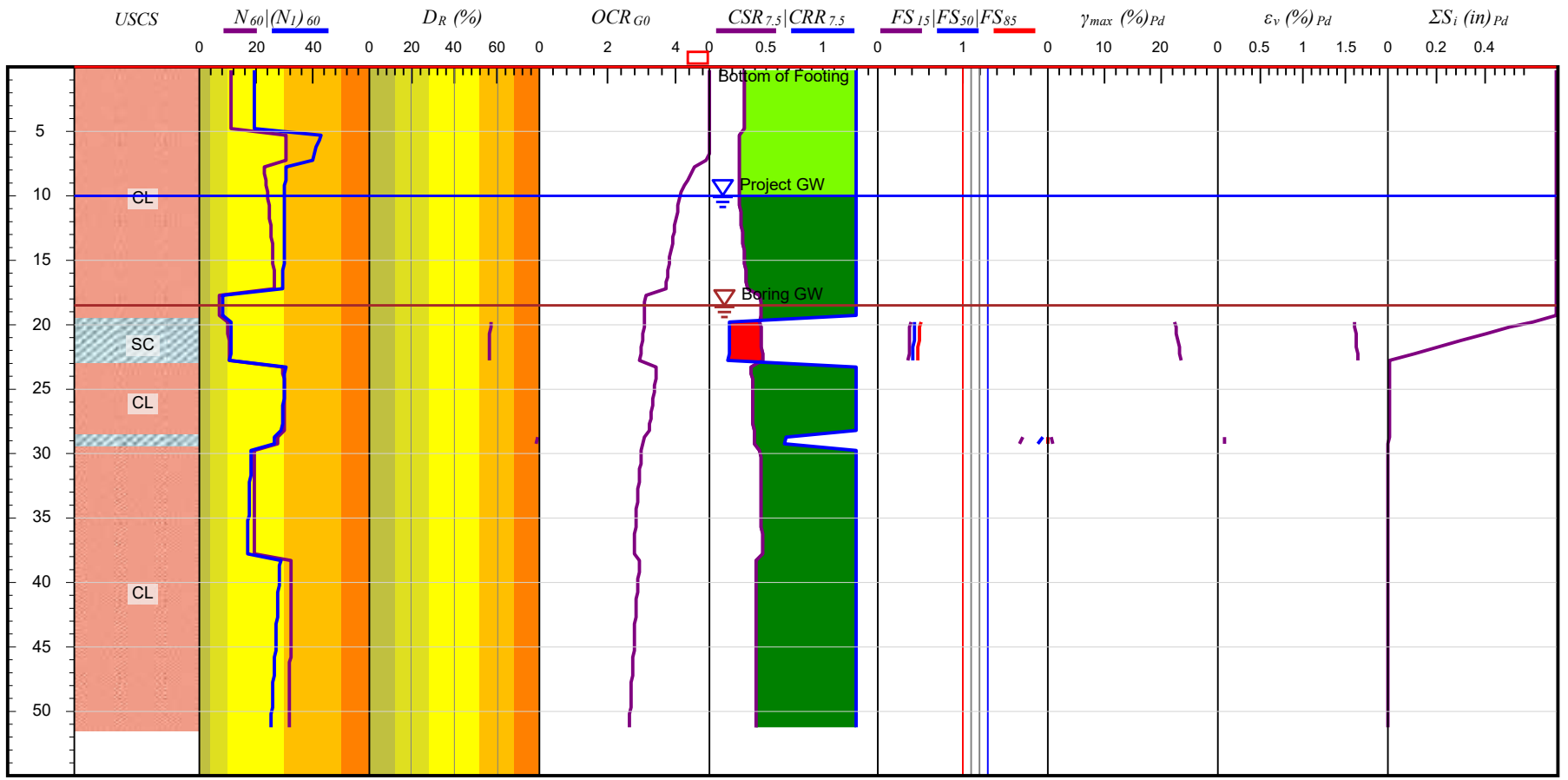

CL

SC

Silt Correction:
$K=(1-FC)^{0.75}$

Earthquake & Groundwater Information:
Magnitude = 6.57
Max. Acceleration = 0.648 g
Project GW = 10 ft
Maximum Settlement = 0.69 in
Settl. at Bottom of Footing = 0.69 in

Liquefaction: Boulanger & Idriss (2010-16)
Settl.: [dry] Pradel (1998); [sat] Idriss & Boulanger (2008)
Lateral spreading: Idriss & Boulanger (2008)
M correction: [Sand; Clay] Boulanger & Idriss(2004)
σv correction: Idriss & Boulanger (2008)
Stress reduction: Idriss & Boulanger (2008)

GORIAN & ASSOCIATES, INC

Seismic Settlement Potential - SPT Data

Project:	Canoga Park High School Modernization				
Location:	6850 Topanga Canyon Blvd.				
Project No.:	2880-83-3-100	Boring No.:	B-15	Figure:	8

X:\2880-0-0-LA Unified Sch Dist-Master File\2880-83 Canoga Park High Sch\2880-83-3 Comprensive Modernization\Seismic Settlement\GeoSuite_2880-83-3-100_B-15.csv

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Z_b (ft)	Z_m (ft)	γ (pcf)	N_{60}	FC(%)	CC(%)	USCS	φ (°)	C' (tsf)	σ_{v0} (tsf)	σ_{v0}' (tsf)	C_N	C_s	$(N_1)_{60}$	$(N_1)_{60cs}$	D_R (%)	V_s (ft/s)	G_0 (tsf)	σ_p' (tsf)	OCR_{G0}	S_u/σ_{v0}'	K_0	r_d	MSF	K_σ	K_α	$CSR_{7.5}$	$CRR_{7.5}$	FS	τ_{av} (tsf)	p (tsf)	G/G_0	γ_{max} (%)	ε_v (%)	ΔS_i	ΣS_i (in)	N
0.50	0.25	115.0	11.4	50.0	0.0	5	0.0	0.0	0.01	0.01	1.7	1.2	19.4	25.0		722.3	932.5	0.07	5.0	0.80	1.0	1.00	1.25	1.10	1.00	0.31	1.30		0.01	0.01	0.0000			0.00	0.69	9.0
1.00	0.75	115.0	11.4	50.0	0.0	5	0.0	0.0	0.04	0.04	1.7	1.2	19.4	25.0		718.3	922.0	0.22	5.0	0.80	1.0	1.00	1.25	1.10	1.00	0.31	1.30		0.02	0.04	0.0000			0.00	0.69	9.0
1.50	1.25	115.0	11.4	50.0	0.0	5	0.0	0.1	0.07	0.07	1.7	1.2	19.4	25.0		714.4	912.0	0.36	5.0	0.80	1.0	1.00	1.25	1.10	1.00	0.31	1.30		0.03	0.07	0.0000			0.00	0.69	9.0
2.00	1.75	115.0	11.4	50.0	0.0	5	0.0	0.1	0.10	0.10	1.7	1.2	19.4	25.0		710.7	902.6	0.50	5.0	0.80	1.0	1.00	1.25	1.10	1.00	0.31	1.30		0.04	0.10	0.0000			0.00	0.69	9.0
2.50	2.25	115.0	11.4	50.0	0.0	5	0.0	0.1	0.13	0.13	1.7	1.2	19.4	25.0		707.1	893.6	0.65	5.0	0.80	1.0	0.99	1.25	1.10	1.00	0.30	1.30		0.05	0.13	0.0000			0.00	0.69	9.0
3.00	2.75	115.0	11.4	50.0	0.0	5	0.0	0.1	0.16	0.16	1.7	1.2	19.4	25.0		703.7	885.0	0.79	5.0	0.80	1.0	0.99	1.25	1.10	1.00	0.30	1.30		0.07	0.16	0.0000			0.00	0.69	9.0
3.50	3.25	115.0	11.4	50.0	0.0	5	0.0	0.1	0.19	0.19	1.7	1.2	19.4	25.0		700.5	876.9	0.93	5.0	0.80	1.0	0.99	1.25	1.10	1.00	0.30	1.30		0.08	0.19	0.0000			0.00	0.69	9.0
4.00	3.75	115.0	11.4	50.0	0.0	5	0.0	0.2	0.22	0.22	1.7	1.2	19.4	25.0		697.4	869.1	1.08	5.0	0.80	1.0	0.99	1.25	1.10	1.00	0.30	1.30		0.09	0.22	0.0000			0.00	0.69	9.0
4.50	4.25	115.0	11.4	50.0	0.0	5	0.0	0.2	0.24	0.24	1.7	1.2	19.4	25.0		694.4	861.7	1.22	5.0	0.80	1.0	0.99	1.25	1.10	1.00	0.30	1.30		0.10	0.24	0.0000			0.00	0.69	9.0
5.00	4.75	115.0	11.4	50.0	0.0	5	0.0	0.2	0.27	0.27	1.7	1.2	19.4	25.0		691.5	854.5	1.37	5.0	0.80	1.0	0.99	1.25	1.10	1.00	0.30	1.30		0.11	0.27	0.0000			0.00	0.69	9.0
5.50	5.25	125.0	30.4	50.0	0.0	5	0.0	0.2	0.30	0.30	1.4	1.3	43.1	48.7		762.5	1,129.4	1.52	5.0	0.80	1.0	0.98	1.42	1.10	1.00	0.27	1.30		0.13	0.30	0.0000			0.00	0.69	22.0
6.00	5.75	125.0	30.4	50.0	0.0	5	0.0	0.3	0.33	0.33	1.4	1.3	42.2	47.8		758.9	1,118.7	1.67	5.0	0.80	1.0	0.98	1.42	1.10	1.00	0.27	1.30		0.14	0.33	0.0000			0.00	0.69	22.0
6.50	6.25	125.0	30.4	50.0	0.0	5	0.0	0.3	0.37	0.37	1.4	1.3	41.4	47.0		755.4	1,108.6	1.83	5.0	0.80	1.0	0.98	1.42	1.10	1.00	0.26	1.30		0.15	0.37	0.0000			0.00	0.69	22.0
7.00	6.75	125.0	30.4	50.0	0.0	5	0.0	0.3	0.40	0.40	1.3	1.3	40.6	46.2		767.4	1,144.0	1.98	5.0	0.80	1.0	0.98	1.42	1.10	1.00	0.26	1.30		0.16	0.40	0.0000			0.00	0.69	22.0
7.50	7.25	125.0	30.8	50.0	0.0	5	0.0	0.3	0.43	0.43	1.3	1.3	40.3	45.9		780.2	1,182.4	2.09	4.9	0.80	1.0	0.97	1.42	1.10	1.00	0.26	1.30		0.18	0.43	0.0000			0.00	0.69	22.0
8.00	7.75	120.0	22.7	50.0	0.0	5	0.0	0.4	0.46	0.46	1.3	1.3	30.7	36.3		771.0	1,108.6	2.09	4.6	0.80	1.0	0.97	1.42	1.10	1.00	0.26	1.30		0.19	0.46	0.0000			0.00	0.69	16.0
8.50	8.25	120.0	23.1	50.0	0.0	5	0.0	0.4	0.49	0.49	1.3	1.3	30.5	36.1		782.1	1,140.8	2.18	4.5	0.80	1.0	0.97	1.42	1.10	1.00	0.26	1.30		0.20	0.49	0.0000			0.00	0.69	16.0
9.00	8.75	120.0	23.4	50.0	0.0	5	0.0	0.4	0.52	0.52	1.3	1.3	30.3	35.9		792.6	1,171.5	2.26	4.4	0.80	1.0	0.97	1.42	1.10	1.00	0.26	1.30		0.21	0.52	0.0000			0.00	0.69	16.0
9.50	9.25	120.0	23.7	50.0	0.0	5	0.0	0.4	0.55	0.55	1.3	1.3	30.1	35.7		802.4	1,200.8	2.34	4.3	0.80	1.0	0.97	1.42	1.10	1.00	0.26	1.30		0.22	0.55	0.0000			0.00	0.69	16.0
10.00	9.75	120.0	24.0	50.0	0.0	5	0.0	0.5	0.58	0.58	1.2	1.3	29.9	35.5		811.6	1,228.4	2.42	4.2	0.80	1.0	0.96	1.42	1.10	1.00	0.26	1.30		0.23	0.58	0.0000			0.00	0.69	16.0
10.50	10.25	120.0	24.2	50.0	0.0	5	0.0	0.5	0.61	0.60	1.2	1.3	29.8	35.4		818.5	1,249.3	2.48	4.1	0.80	1.0	0.96	1.42	1.10	1.00	0.26	1.30		0.25	0.60				0.00	0.69	16.0
11.00	10.75	120.0	24.5	50.0	0.0	5	0.0	0.5	0.64	0.62	1.2	1.3	29.8	35.5		823.3	1,264.0	2.52	4.1	0.80	1.0	0.96	1.42	1.10	1.00	0.27	1.30		0.26	0.62				0.00	0.69	16.0
11.50	11.25	120.0	24.7	50.0	0.0	5	0.0	0.5	0.67	0.63	1.2	1.3	29.9	35.5		827.9	1,278.3	2.56	4.1	0.80	1.0	0.96	1.42	1.10	1.00	0.27	1.30		0.27	0.63				0.00	0.69	16.0
12.00	11.75	120.0	25.0	50.0	0.0	5	0.0	0.5	0.70	0.64	1.2	1.3	29.9	35.5		832.4	1,292.2	2.59	4.0	0.80	1.0	0.95	1.42	1.10	1.00	0.28	1.30		0.28	0.64				0.00	0.69	16.0
12.50	12.25	120.0	25.2	50.0	0.0	5	0.0	0.5	0.73	0.66	1.2	1.3	29.9	35.5		836.7	1,305.7	2.63	4.0	0.80	1.0	0.95	1.42	1.10	1.00	0.28	1.30		0.29	0.66				0.00	0.69	16.0
13.00	12.75	120.0	25.4	50.0	0.0	5	0.0	0.5	0.76	0.67	1.2	1.3	29.9	35.5		840.9	1,318.8	2.67	4.0	0.80	1.0	0.95	1.42	1.10	1.00	0.29	1.30		0.30	0.67				0.00	0.69	16.0
13.50	13.25	120.0	25.5	50.0	0.0	5	0.0	0.5	0.79	0.69	1.2	1.3	29.9	35.5		845.0	1,331.6	2.70	3.9	0.80	1.0	0.95	1.42	1.09	1.00	0.30	1.30		0.31	0.69				0.00	0.69	16.0
14.00	13.75	120.0	25.7	50.0	0.0	5	0.0	0.6	0.82	0.70	1.2	1.3	29.9	35.5		848.8	1,343.7	2.74	3.9	0.80	1.0	0.94	1.42	1.09	1.00	0.30	1.30		0.33	0.70				0.00	0.69	16.0
14.50	14.25	120.0	25.9	50.0	0.0	5	0.0	0.6	0.85	0.72	1.2	1.3	29.8	35.4		852.7	1,355.9	2.77	3.9	0.80	1.0	0.94	1.42	1.08	1.00	0.31	1.30		0.34	0.72				0.00	0.69	16.0
15.00	14.75	120.0	26.0	50.0	0.0	5	0.0	0.6	0.88	0.73	1.1	1.3	29.8	35.4		856.4	1,367.8	2.81	3.8	0.80	1.0	0.94	1.42	1.08	1.00	0.31	1.30		0.35	0.73				0.00	0.69	16.0
15.50	15.25	120.0	26.2	50.0	0.0	5	0.0	0.6	0.91	0.74	1.1	1.3	29.7	35.4		860.1	1,379.4	2.84	3.8	0.80	1.0	0.94	1.42	1.08	1.00	0.32	1.30		0.36	0.74				0.00	0.69	16.0
16.00	15.75	120.0	26.3	50.0	0.0	5	0.0	0.6	0.94	0.76	1.1	1.3	29.7	35.3		863.6	1,390.8	2.88	3.8	0.80	1.0	0.93	1.42	1.07	1.00	0.32	1.30		0.37	0.76				0.00	0.69	16.0
16.50	16.25	120.0	26.4	50.0	0.0	5	0.0	0.6	0.97	0.77	1.1	1.3	29.6	35.2		867.0	1,401.8	2.91	3.8	0.80	1.0	0.93	1.42	1.07	1.00	0.33	1.30		0.38	0.77				0.00	0.69	16.0
17.00	16.75	120.0	26.5	50.0	0.0	5	0.0	0.6	1.00	0.79	1.1	1.3	29.6	35.2		870.4	1,412.7	2.95	3.7	0.80	1.0	0.93	1.42	1.06	1.00	0.33	1.30		0.39	0.79				0.00	0.69	16.0
17.50	17.25	120.0	26.7	50.0	0.0	5	0.0	0.6	1.03	0.80	1.1	1.3	29.5	35.1		873.6	1,423.3	2.98	3.7	0.80	1.0	0.93	1.42	1.06	1.00	0.33	1.30		0.40	0.80				0.00	0.69	16.0
18.00	17.75	120.0	7.1	50.0	0.0	5	0.0	0.5	1.06	0.82	1.2	1.1	8.2	13.8		737.8	1,015.2	2.55	3.1	0.66	1.0	0.92	1.10	1.03	1.00	0.45	1.30		0.41	0.82				0.00	0.69	5.0
18.50	18.25	120.0	7.1	50.0	0.0	5	0.0	0.5	1.09	0.83	1.1	1.1	8.2	13.8		740.6	1,022.9	2.58	3.1	0.65	1.0	0.92	1.10	1.02	1.00	0.45	1.30		0.42	0.83				0.00	0.69	5.0
19.00	18.75	120.0	7.2	50.0	0.0	5	0.0	0.5	1.12	0.85	1.1	1.1	8.1	13.7		743.4	1,030.5	2.61	3.1	0.64	1.0	0.92	1.10	1.02	1.00	0.46	1.30		0.43	0.85				0.00	0.69	5.0
19.50	19.25	120.0	7.2	50.0	0.0	5	0.0	0.5	1.15	0.86	1.1	1.1	8.1	13.7		746.1	1,038.0	2.64	3.1	0.64	1.0	0.92	1.10	1.02	1.00	0.46	1.30		0.44	0.86				0.00	0.69	5.0
20.00	19.75	125.0	10.2	48.0	0.0	9	31.3	0.1	1.18	0.88	1.1	1.1	11.3	16.9	57.0	745.7	1,080.1	2.71	3.1		0.9	0.91	1.13	1.02	1.00	0.45	0.17	0.39	0.45	0.80		22.374	1.6115	0.10	0.60	7.0
20.50	20.25	125.0	10.2	48.0	0.0	9	31.3	0.1	1.21	0.89	1.1	1.1	11.2	16.8	56.9	747.9	1,086.7	2.74	3.1		0.9	0.91	1.13	1.02	1.00	0.45	0.17	0.38	0.46	0.81		22.556	1.6169	0.10	0.50	7.0
21.00	20.75	125.0	10.3	48.0	0.0	9	31.2	0.1	1.24	0.91	1.1	1.1	11.1	16.8	56.8	750.2	1,093.2	2.76	3.0		0.9	0.91	1.13	1.02	1.00	0.46	0.17	0.38	0.47	0.82		22.733	1.6221	0.10	0.40	7.0
21.50	21.25	125.0	10.3	48.0	0.0	9	31.2	0.1	1.27	0.92	1.1	1.1	11.1	16.7	56.7	752.3	1,099.5	2.79	3.0		0.9	0.90	1.13	1.02	1.00	0.46	0.17	0.37	0.48	0.83		22.910	1.6274	0.10	0.30	7.0
22.00	21.75	125.0	10.3	48.0	0.0	9	31.2	0.1	1.30	0.94	1.1	1.1	11.0	16.6	56.5	754.5	1,105.8	2.82	3.0		0.9	0.90	1.13	1.01	1.00	0.46	0.17	0.37	0.49	0.85		23.088	1.6326	0.10	0.21	7.0
22.50	22.25	125.0	10.3	48.0	0.0	9	31.1	0.1	1.34	0.95	1.1	1.1	10.9	16.5	56.4	756.6	1,112.0	2.85	3.0		0.9	0.90	1.13	1.01	1.00	0.46	0.17	0.37	0.51	0.86		23.266	1.6378	0.10	0.11	7.0
23.00	22.75	125.0	10.4	48.0	0.0	9	31.1	0.1	1.37	0.97	1.0	1.1	10.9	16.5	56.3	758.6	1,118.0	2.87	3.0		0.8	0.90	1.13	1.01	1.00	0.47	0.17	0.36	0.52	0.87		23.445	1.6431	0.10	0.01	7.0
23.50	23.25	130.0	29.6	50.0	0.0	5	0.0	0.7	1.40	0.99	1.0	1.3	30.4	36.0		882.3	1,572.5	3.40	3.5	0.70	1.0	0.89	1.42	1.02	1.00	0.37	1.30		0.53	0.99				0.00	0.01	17.0
24.00	23.75	130.0	29.7	50.0	0.0	5	0.0	0.7	1.43	1.00	1.0	1.3	30.3	35.9		885.0	1,582.5	3.44	3.4	0.69	1.0	0.89	1.42	1.01	1.00	0.37	1.30		0.54	1.00				0.00	0.01	17.0
24.50	24.25	130.0	29.8	50.0	0.0	5	0.0	0.7	1.46	1.02	1.0	1.3	30.2	35.8		887.8	1,592.3	3.47	3.4	0.68	1.0	0.89	1.42	1.01	1.00	0.38	1.30		0.55	1.02				0.00	0.01	17.0
25.00	24.75	130.0	29.8	50.0	0.0	5	0.0	0.7	1.50	1.04	1.0	1.3	30.1	35.7		890.5	1,601.9	3.51	3.4	0.68	1.0	0.88	1.42	1.00	1.00	0.38	1.30		0.56	1.04				0.00	0.01	17.0
25.50	25.25	130.0	29.9	50.0	0.0	5	0.0	0.7	1.53	1.05	1.0	1.3	30.0	35.6		893.1	1,611.4	3.54	3.4	0.67	1.0	0.88	1.42	1.00	1.00	0.38	1.30		0.57	1.05				0.00	0.01	17.0
26.00	25.75	130.0	29.9	50.0	0.0	5	0.0	0.7	1.56	1.07	1.0	1.3	29.8	35.4		895.4	1,619.9	3.57	3.3	0.66	1.0	0.88	1.42	1.00	1.00	0.38	1.30		0.58	1.07				0.00	0.01	17.0
26.50	26.25	130.0	29.9	50.0	0.0	5	0.0	0.7	1.59	1.09	1.0	1.3	29.6	35.2		897.8	1,628.3	3.61	3.3	0.66	1.0	0.87	1.42	0.99	1.00	0.38	1.30		0.59	1.09				0.00	0.01	17.0
27.00	26.75	130.0	29.9	50.0	0.0	5	0.0	0.7	1.63	1.10	1.0	1.3	29.5	35.1		900.1	1,636.9	3.64	3.3	0.65	1.0	0.87	1.42	0.99	1.00	0.39	1.30		0.60	1.10				0.00	0.01	17.0
27.50	27.25	130.0	30.0	50.0	0.0	5	0.0	0.7	1.66	1.12	1.0	1.3	29.3	34.9		902.4	1,645.2	3.67	3.3	0.65	1.0	0.87	1.42	0.99	1.00	0.39	1.30		0.61	1.12				0.00	0.01	17.0
28.00	27.75	130.0	30.0	50.0	0.0	5	0.0	0.7	1.69	1.14	1.0	1.3	29.2	34.8		904.7	1,653.4	3.70	3.3	0.64	1.0	0.87	1.42	0.98	1.00	0.39	1.30		0.62	1.14				0.00	0.01	17.0
28.50	28.25	130.0	30.0	50.0	0.0	5	0.0	0.7	1.72	1.15	1.0	1.3	29.0	34.7		906.9	1,661.5	3.74	3.2	0.63	1.0	0.86	1.42	0.98	1.00	0.39	1.30		0.63	1.15				0.00	0.01	17.0
29.00	28.75	130.0	27.8	50.0	0.0	9	36.9	0.1	1.76	1.17	1.0	1.3	26.7	32.3	78.8	864.5	1,509.8	3.59	3.1		0.8	0.86	1.40	0.98	1.00	0.40	0.68	1.71	0.64	1.00		0.643	0.0704	0.00	0.01	16.0
29.50	29.25	130.0	27.8	50.0	0.0	9	36.9	0.1	1.79	1.19	1.0	1.3	26.5	32.2	78.6	866.0	1,515.2	3.62	3.0		0.8	0.86	1.39	0.98	1.00	0.40	0.66	1.66	0.64	1.01		0.783	0.0862	0.01	0.00	16.0
30.00	29.75	125.0	19.5	50.0	0.0	5	0.0	0.7	1.82	1.20	0.9	1.2	18.4	24.0		877.0	1,494.0	3.61	3.0	0.59	1.0	0.85	1.23	0.98	1.00	0.45	1.30		0.65	1.20				0.00	0.00	12.0
30.50	30.25	125.0	19.5	50.0	0.0	5	0.0	0.7	1.85	1.22	0.9	1.2	18.3	23.9		878.8	1,500.2	3.64	3.0	0.58	1.0	0.85	1.23	0.98	1.00	0.45	1.30		0.66	1.22				0.00	0.00	12.0
31.00	30.75	125.0	19.5	50.0	0.0	5	0.0	0.7	1.88	1.24	0.9	1.2	18.2	23.8		880.7	1,506.6	3.67	3.0	0.58	1.0	0.85	1.23	0.98	1.00	0.45	1.30		0.67	1.24				0.00	0.00	12.0
31.50	31.25	125.0	19.5	50.0	0.0	5	0.0	0.7	1.91	1.25	0.9	1.2	18.1	23.7		882.5	1,513.0	3.70	3.0	0.58	1.0	0.84	1.23	0.98	1.00	0.45	1.30		0.68	1.25				0.00	0.00	12.0
32.00	31.75	125.0	19.6	50.0	0.0	5	0.0	0.7	1.95	1.27	0.9	1.2	18.0	23.6		884.5	1,519.7	3.72	2.9	0.57	1.0	0.84	1.23	0.98	1.00	0.45	1.30		0.69	1.27				0.00	0.00	12.0
32.50	32.25	125.0	19.6	50.0	0.0	5	0.0	0.7	1.98	1.28	0.9	1.2	17.9	23.5		886.3	1,526.0	3.75	2.9	0.57	1.0	0.84	1.22	0.97	1.00	0.46	1.30		0.70	1.28				0.00	0.00	12.0
33.00	32.75	125.0	19.6	50.0	0.0	5	0.0	0.7	2.01	1.30	0.9	1.2	17.8	23.4		888.1	1,532.2	3.78	2.9	0.56	1.0	0.83	1.22	0.97	1.00	0.46	1.30		0.71	1.30				0.00	0.00	12.0
33.50	33.25	125.0	19.6	50.0	0.0	5	0.0	0.7	2.04	1.31	0.9	1.2	17.7	23.3		889.9	1,538.3	3.80	2.9	0.56	1.0	0.83	1.22	0.97	1.00	0.46	1.30		0.71	1.31				0.00	0.00	12.0
34.00	33.75	125.0	19.6	50.0	0.0	5	0.0	0.7	2.07	1.33	0.9	1.2	17.6	23.2		891.6	1,544.3	3.83	2.9	0.56	1.0	0.83	1.22	0.97	1.00	0.46	1.30		0.72	1.33				0.00	0.00	12.0
34.50	34.25	125.0	19.6	50.0	0.0	5	0.0	0.7	2.10	1.35	0.9	1.2	17.5	23.1		893.3	1,550.3	3.85	2.9	0.55	1.0	0.82	1.22	0.97	1.00	0.46	1.30		0.73	1.35				0.00	0.00	12.0

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Z_b (ft)	Z_m (ft)	γ (pcf)	N_{60}	FC(%)	CC(%)	USCS	φ (°)	C' (tsf)	σ_{v0} (tsf)	σ_{v0}' (tsf)	C_N	C_s	$(N_1)_{60}$	$(N_1)_{60cs}$	D_R (%)	V_s (ft/s)	G_0 (tsf)	σ_p' (tsf)	OCR_{G0}	S_u/σ_{v0}'	K_0	r_d	MSF	K_σ	K_α	$CSR_{7.5}$	$CRR_{7.5}$	FS	τ_{av} (tsf)	p (tsf)	G/G_0	γ_{max} (%)	ε_v (%)	ΔS_i	ΣS_i (in)	N
35.00	34.75	125.0	19.6	50.0	0.0	5	0.0	0.7	2.13	1.36	0.9	1.2	17.4	23.0		895.0	1,556.2	3.88	2.9	0.55	1.0	0.82	1.22	0.97	1.00	0.46	1.30		0.74	1.36				0.00	0.00	12.0
35.50	35.25	125.0	19.6	50.0	0.0	5	0.0	0.7	2.16	1.38	0.9	1.2	17.3	22.9		896.7	1,562.0	3.91	2.8	0.54	1.0	0.82	1.22	0.96	1.00	0.46	1.30		0.75	1.38				0.00	0.00	12.0
36.00	35.75	125.0	19.6	50.0	0.0	5	0.0	0.8	2.20	1.39	0.9	1.2	17.2	22.9		898.4	1,567.8	3.93	2.8	0.54	1.0	0.82	1.21	0.96	1.00	0.46	1.30		0.75	1.39				0.00	0.00	12.0
36.50	36.25	125.0	19.6	50.0	0.0	5	0.0	0.8	2.23	1.41	0.9	1.2	17.1	22.8		900.0	1,573.5	3.96	2.8	0.54	1.0	0.81	1.21	0.96	1.00	0.46	1.30		0.76	1.41				0.00	0.00	12.0
37.00	36.75	125.0	19.6	50.0	0.0	5	0.0	0.8	2.26	1.42	0.9	1.2	17.1	22.7		901.6	1,579.2	3.98	2.8	0.53	1.0	0.81	1.21	0.96	1.00	0.46	1.30		0.77	1.42				0.00	0.00	12.0
37.50	37.25	125.0	19.6	50.0	0.0	5	0.0	0.8	2.29	1.44	0.9	1.2	17.0	22.6		903.2	1,584.7	4.01	2.8	0.53	1.0	0.81	1.21	0.96	1.00	0.47	1.30		0.78	1.44				0.00	0.00	12.0
38.00	37.75	125.0	19.6	50.0	0.0	5	0.0	0.8	2.32	1.45	0.9	1.2	16.9	22.5		904.8	1,590.3	4.03	2.8	0.53	1.0	0.80	1.21	0.96	1.00	0.47	1.30		0.78	1.45				0.00	0.00	12.0
38.50	38.25	125.0	32.3	50.0	0.0	5	0.0	0.8	2.35	1.47	0.9	1.3	28.6	34.2		971.0	1,831.6	4.33	2.9	0.57	1.0	0.80	1.42	0.93	1.00	0.41	1.30		0.79	1.47				0.00	0.00	18.0
39.00	38.75	125.0	32.3	50.0	0.0	5	0.0	0.8	2.38	1.49	0.9	1.3	28.5	34.1		972.5	1,837.3	4.36	2.9	0.56	1.0	0.80	1.42	0.93	1.00	0.41	1.30		0.80	1.49				0.00	0.00	18.0
39.50	39.25	125.0	32.3	50.0	0.0	5	0.0	0.8	2.41	1.50	0.9	1.3	28.3	33.9		974.0	1,843.0	4.38	2.9	0.56	1.0	0.79	1.42	0.93	1.00	0.41	1.30		0.81	1.50				0.00	0.00	18.0
40.00	39.75	125.0	32.3	50.0	0.0	5	0.0	0.8	2.45	1.52	0.9	1.3	28.2	33.8		975.5	1,848.6	4.41	2.9	0.56	1.0	0.79	1.42	0.93	1.00	0.41	1.30		0.81	1.52				0.00	0.00	18.0
40.50	40.25	125.0	32.3	50.0	0.0	5	0.0	0.8	2.48	1.53	0.9	1.3	28.1	33.7		977.0	1,854.1	4.44	2.9	0.55	1.0	0.79	1.42	0.93	1.00	0.41	1.30		0.82	1.53				0.00	0.00	18.0
41.00	40.75	125.0	32.3	50.0	0.0	5	0.0	0.8	2.51	1.55	0.9	1.3	27.9	33.6		978.4	1,859.6	4.46	2.9	0.55	1.0	0.78	1.42	0.92	1.00	0.41	1.30		0.83	1.55				0.00	0.00	18.0
41.50	41.25	125.0	32.3	50.0	0.0	5	0.0	0.9	2.54	1.56	0.9	1.3	27.8	33.4		979.8	1,865.0	4.49	2.9	0.54	1.0	0.78	1.42	0.92	1.00	0.41	1.30		0.83	1.56				0.00	0.00	18.0
42.00	41.75	125.0	32.2	50.0	0.0	5	0.0	0.9	2.57	1.58	0.9	1.3	27.7	33.3		981.3	1,870.4	4.51	2.9	0.54	1.0	0.78	1.42	0.92	1.00	0.41	1.30		0.84	1.58				0.00	0.00	18.0
42.50	42.25	125.0	32.2	50.0	0.0	5	0.0	0.9	2.60	1.60	0.9	1.3	27.5	33.2		982.6	1,875.7	4.54	2.8	0.54	1.0	0.77	1.42	0.92	1.00	0.41	1.30		0.85	1.60				0.00	0.00	18.0
43.00	42.75	125.0	32.2	50.0	0.0	5	0.0	0.9	2.63	1.61	0.9	1.3	27.4	33.0		984.0	1,880.9	4.56	2.8	0.53	1.0	0.77	1.41	0.92	1.00	0.41	1.30		0.86	1.61				0.00	0.00	18.0
43.50	43.25	125.0	32.2	50.0	0.0	5	0.0	0.9	2.66	1.63	0.8	1.3	27.3	32.9		985.4	1,886.1	4.58	2.8	0.53	1.0	0.77	1.41	0.92	1.00	0.41	1.30		0.86	1.63				0.00	0.00	18.0
44.00	43.75	125.0	32.2	50.0	0.0	5	0.0	0.9	2.70	1.64	0.8	1.3	27.2	32.8		986.7	1,891.3	4.61	2.8	0.53	1.0	0.76	1.41	0.91	1.00	0.41	1.30		0.87	1.64				0.00	0.00	18.0
44.50	44.25	125.0	32.1	50.0	0.0	5	0.0	0.9	2.73	1.66	0.8	1.3	27.0	32.6		988.0	1,896.3	4.63	2.8	0.53	1.0	0.76	1.40	0.91	1.00	0.41	1.30		0.87	1.66				0.00	0.00	18.0
45.00	44.75	125.0	32.1	50.0	0.0	5	0.0	0.9	2.76	1.67	0.8	1.3	26.9	32.5		989.3	1,901.4	4.66	2.8	0.52	1.0	0.76	1.40	0.91	1.00	0.41	1.30		0.88	1.67				0.00	0.00	18.0
45.50	45.25	125.0	32.1	50.0	0.0	5	0.0	0.9	2.79	1.69	0.8	1.3	26.8	32.4		990.6	1,906.3	4.68	2.8	0.52	1.0	0.76	1.40	0.91	1.00	0.41	1.30		0.89	1.69				0.00	0.00	18.0
46.00	45.75	125.0	32.1	50.0	0.0	5	0.0	0.9	2.82	1.71	0.8	1.3	26.7	32.3		991.9	1,911.3	4.71	2.8	0.52	1.0	0.75	1.40	0.91	1.00	0.41	1.30		0.89	1.71				0.00	0.00	18.0
46.50	46.25	125.0	32.1	50.0	0.0	5	0.0	0.9	2.85	1.72	0.8	1.3	26.5	32.1		993.2	1,916.1	4.73	2.7	0.51	1.0	0.75	1.39	0.91	1.00	0.41	1.30		0.90	1.72				0.00	0.00	18.0
47.00	46.75	125.0	32.0	50.0	0.0	5	0.0	0.9	2.88	1.74	0.8	1.3	26.4	32.0		994.4	1,921.0	4.75	2.7	0.51	1.0	0.75	1.39	0.91	1.00	0.41	1.30		0.91	1.74				0.00	0.00	18.0
47.50	47.25	125.0	32.0	50.0	0.0	5	0.0	0.9	2.91	1.75	0.8	1.3	26.3	31.9		995.7	1,925.7	4.78	2.7	0.51	1.0	0.74	1.39	0.91	1.00	0.41	1.30		0.91	1.75				0.00	0.00	18.0
48.00	47.75	125.0	32.0	50.0	0.0	5	0.0	0.9	2.95	1.77	0.8	1.3	26.2	31.8		996.9	1,930.5	4.80	2.7	0.50	1.0	0.74	1.38	0.90	1.00	0.41	1.30		0.92	1.77				0.00	0.00	18.0
48.50	48.25	125.0	32.0	50.0	0.0	5	0.0	0.9	2.98	1.78	0.8	1.3	26.0	31.7		998.1	1,935.2	4.82	2.7	0.50	1.0	0.74	1.38	0.90	1.00	0.42	1.30		0.92	1.78				0.00	0.00	18.0
49.00	48.75	125.0	31.9	50.0	0.0	5	0.0	0.9	3.01	1.80	0.8	1.3	25.9	31.5		999.3	1,939.8	4.85	2.7	0.50	1.0	0.73	1.38	0.90	1.00	0.42	1.30		0.93	1.80				0.00	0.00	18.0
49.50	49.25	125.0	31.9	50.0	0.0	5	0.0	0.9	3.04	1.81	0.8	1.3	25.8	31.4		1,000.5	1,944.4	4.87	2.7	0.50	1.0	0.73	1.38	0.90	1.00	0.42	1.30		0.94	1.81				0.00	0.00	18.0
50.00	49.75	125.0	31.9	50.0	0.0	5	0.0	0.9	3.07	1.83	0.8	1.3	25.7	31.3		1,001.6	1,949.0	4.89	2.7	0.49	1.0	0.73	1.37	0.90	1.00	0.42	1.30		0.94	1.83				0.00	0.00	18.0
50.50	50.25	125.0	31.9	50.0	0.0	5	0.0	0.9	3.10	1.85	0.8	1.3	25.6	31.2		1,002.8	1,953.5	4.92	2.7	0.49	1.0	0.72	1.37	0.90	1.00	0.42	1.30		0.95	1.85				0.00	0.00	18.0
51.00	50.75	125.0	31.8	50.0	0.0	5	0.0	0.9	3.13	1.86	0.8	1.3	25.4	31.1		1,004.0	1,957.9	4.94	2.7	0.49	1.0	0.72	1.37	0.90	1.00	0.42	1.30		0.95	1.86				0.00	0.00	18.0
51.50	51.25	125.0	31.8	50.0	0.0	5	0.0	0.9	3.16	1.88	0.8	1.3	25.3	30.9		1,005.1	1,962.4	4.96	2.6	0.49	1.0	0.72	1.37	0.90	1.00	0.42	1.30		0.96	1.88				0.00	0.00	18.0

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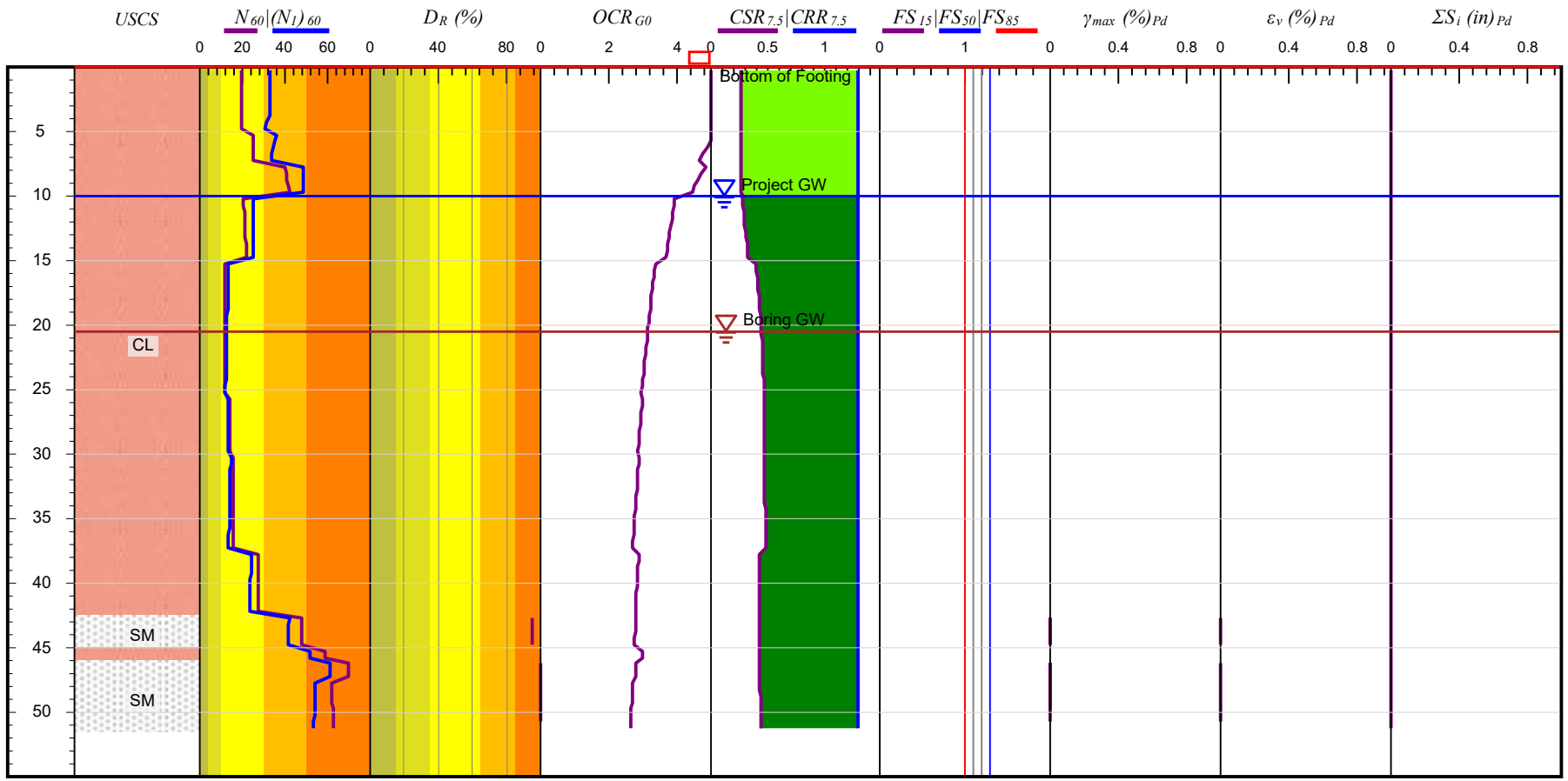

CL

SM

Silt Correction:
$K=(1\text{-}FC)^{0.75}$

Earthquake & Groundwater Information:
Magnitude = 6.57
Max. Acceleration = 0.648 g
Project GW = 10 ft
Maximum Settlement = 0.00 in
Settl. at Bottom of Footing = 0.00 in

Liquefaction: Boulanger & Idriss (2010-16)
Settl.: [dry] Pradel (1998); [sat] Idriss & Boulanger (2008)
Lateral spreading: Idriss & Boulanger (2008)
M correction: [Sand; Clay] Boulanger & Idriss(2004)
σv correction: Idriss & Boulanger (2008)
Stress reduction: Idriss & Boulanger (2008)

GORIAN & ASSOCIATES, INC

Seismic Settlement Potential - SPT Data

Project:	Canoga Park High School Modernization				
Location:	6850 Topanga Canyon Blvd.				
Project No.:	2880-83-3-100	Boring No.:	B-16	Figure:	9

X:\2880-0-0-LA Unified Sch Dist-Master File\2880-83 Canoga Park High Sch\2880-83-3 Comprensive Modernization\Seismic Settlement\GeoSuite_2880-8-3-100_B-16.csv

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Prepared at 1/10/2022 2:45:04 PM

Z_b (ft)	Z_m (ft)	γ (pcf)	N_{60}	FC(%)	CC(%)	USCS	φ (°)	C' (tsf)	σ_{v0} (tsf)	σ_{v0}' (tsf)	C_N	C_s	$(N_1)_{60}$	$(N_1)_{60cs}$	D_R (%)	V_s (ft/s)	G_0 (tsf)	σ_p' (tsf)	OCR_{G0}	S_u/σ_{v0}'	K_0	r_d	MSF	K_σ	K_α	$CSR_{7.5}$	$CRR_{7.5}$	FS	τ_{av} (tsf)	p (tsf)	G/G_0	γ_{max} (%)	ε_v (%)	ΔS_i	ΣS_i (in)	N
0.50	0.25	125.0	19.3	50.0	0.0	5	0.0	0.0	0.02	0.02	1.7	1.3	32.9	38.5		749.2	1,090.4	0.08	5.0	0.80	1.0	1.00	1.42	1.10	1.00	0.27	1.30		0.01	0.02	0.0000			0.00	0.00	14.0
1.00	0.75	125.0	19.3	50.0	0.0	5	0.0	0.0	0.05	0.05	1.7	1.3	32.9	38.5		744.4	1,076.3	0.23	5.0	0.80	1.0	1.00	1.42	1.10	1.00	0.27	1.30		0.02	0.05	0.0000			0.00	0.00	14.0
1.50	1.25	125.0	19.3	50.0	0.0	5	0.0	0.1	0.08	0.08	1.7	1.3	32.9	38.5		739.7	1,063.0	0.39	5.0	0.80	1.0	1.00	1.42	1.10	1.00	0.27	1.30		0.03	0.08	0.0000			0.00	0.00	14.0
2.00	1.75	125.0	19.3	50.0	0.0	5	0.0	0.1	0.11	0.11	1.7	1.3	32.9	38.5		735.3	1,050.4	0.55	5.0	0.80	1.0	1.00	1.42	1.10	1.00	0.27	1.30		0.05	0.11	0.0000			0.00	0.00	14.0
2.50	2.25	125.0	19.3	50.0	0.0	5	0.0	0.1	0.14	0.14	1.7	1.3	32.9	38.5		731.1	1,038.4	0.70	5.0	0.80	1.0	0.99	1.42	1.10	1.00	0.27	1.30		0.06	0.14	0.0000			0.00	0.00	14.0
3.00	2.75	125.0	19.3	50.0	0.0	5	0.0	0.1	0.17	0.17	1.7	1.3	32.9	38.5		727.1	1,027.1	0.86	5.0	0.80	1.0	0.99	1.42	1.10	1.00	0.27	1.30		0.07	0.17	0.0000			0.00	0.00	14.0
3.50	3.25	125.0	19.3	50.0	0.0	5	0.0	0.2	0.20	0.20	1.7	1.3	32.9	38.5		723.3	1,016.3	1.02	5.0	0.80	1.0	0.99	1.42	1.10	1.00	0.27	1.30		0.08	0.20	0.0000			0.00	0.00	14.0
4.00	3.75	125.0	19.3	50.0	0.0	5	0.0	0.2	0.23	0.23	1.7	1.3	32.6	38.2		719.7	1,006.1	1.17	5.0	0.80	1.0	0.99	1.42	1.10	1.00	0.27	1.30		0.10	0.23	0.0000			0.00	0.00	14.0
4.50	4.25	125.0	19.3	50.0	0.0	5	0.0	0.2	0.27	0.27	1.6	1.3	31.5	37.1		716.1	996.3	1.33	5.0	0.80	1.0	0.99	1.42	1.10	1.00	0.27	1.30		0.11	0.27	0.0000			0.00	0.00	14.0
5.00	4.75	125.0	19.3	50.0	0.0	5	0.0	0.2	0.30	0.30	1.6	1.3	30.6	36.2		712.8	986.9	1.48	5.0	0.80	1.0	0.99	1.42	1.10	1.00	0.27	1.30		0.12	0.30	0.0000			0.00	0.00	14.0
5.50	5.25	125.0	24.9	50.0	0.0	5	0.0	0.3	0.33	0.33	1.5	1.3	36.2	41.8		736.7	1,054.2	1.64	5.0	0.80	1.0	0.98	1.42	1.10	1.00	0.27	1.30		0.14	0.33	0.0000			0.00	0.00	18.0
6.00	5.75	125.0	24.9	50.0	0.0	5	0.0	0.3	0.36	0.36	1.4	1.3	35.4	41.0		733.4	1,044.7	1.80	5.0	0.80	1.0	0.98	1.42	1.10	1.00	0.27	1.30		0.15	0.36	0.0000			0.00	0.00	18.0
6.50	6.25	125.0	24.9	50.0	0.0	5	0.0	0.3	0.39	0.39	1.4	1.3	34.6	40.2		742.1	1,069.7	1.92	4.9	0.80	1.0	0.98	1.42	1.10	1.00	0.26	1.30		0.16	0.39	0.0000			0.00	0.00	18.0
7.00	6.75	125.0	24.9	50.0	0.0	5	0.0	0.3	0.42	0.42	1.4	1.3	33.9	39.5		753.3	1,102.3	2.01	4.8	0.80	1.0	0.98	1.42	1.10	1.00	0.26	1.30		0.17	0.42	0.0000			0.00	0.00	18.0
7.50	7.25	125.0	25.2	50.0	0.0	5	0.0	0.4	0.45	0.45	1.3	1.3	33.6	39.2		765.1	1,137.2	2.10	4.6	0.80	1.0	0.97	1.42	1.10	1.00	0.26	1.30		0.19	0.45	0.0000			0.00	0.00	18.0
8.00	7.75	125.0	39.8	50.0	0.0	5	0.0	0.4	0.48	0.48	1.2	1.3	48.9	54.5		831.0	1,341.5	2.34	4.8	0.80	1.0	0.97	1.42	1.10	1.00	0.26	1.30		0.20	0.48	0.0000			0.00	0.00	28.0
8.50	8.25	125.0	40.4	50.0	0.0	5	0.0	0.4	0.52	0.52	1.2	1.3	48.8	54.4		842.7	1,379.4	2.44	4.7	0.80	1.0	0.97	1.42	1.10	1.00	0.26	1.30		0.21	0.52	0.0000			0.00	0.00	28.0
9.00	8.75	125.0	41.0	50.0	0.0	5	0.0	0.4	0.55	0.55	1.2	1.3	48.8	54.4		853.7	1,415.6	2.53	4.6	0.80	1.0	0.97	1.42	1.10	1.00	0.26	1.30		0.22	0.55	0.0000			0.00	0.00	28.0
9.50	9.25	125.0	41.5	50.0	0.0	5	0.0	0.5	0.58	0.58	1.2	1.3	48.7	54.3		864.0	1,450.1	2.62	4.5	0.80	1.0	0.97	1.42	1.10	1.00	0.26	1.30		0.24	0.58	0.0000			0.00	0.00	28.0
10.00	9.75	125.0	42.0	50.0	0.0	5	0.0	0.5	0.61	0.61	1.2	1.3	48.6	54.2		873.8	1,483.1	2.71	4.4	0.80	1.0	0.96	1.42	1.10	1.00	0.26	1.30		0.25	0.61	0.0000			0.00	0.00	28.0
10.50	10.25	120.0	20.4	50.0	0.0	5	0.0	0.5	0.64	0.63	1.2	1.3	25.1	30.7		805.9	1,211.1	2.49	3.9	0.80	1.0	0.96	1.36	1.09	1.00	0.28	1.30		0.26	0.63				0.00	0.00	14.0
11.00	10.75	120.0	20.7	50.0	0.0	5	0.0	0.5	0.67	0.65	1.2	1.3	25.1	30.8		810.4	1,224.7	2.53	3.9	0.80	1.0	0.96	1.36	1.09	1.00	0.28	1.30		0.27	0.65				0.00	0.00	14.0
11.50	11.25	120.0	20.9	50.0	0.0	5	0.0	0.5	0.70	0.66	1.2	1.3	25.2	30.8		814.7	1,237.9	2.57	3.9	0.80	1.0	0.96	1.36	1.08	1.00	0.29	1.30		0.28	0.66				0.00	0.00	14.0
12.00	11.75	120.0	21.0	50.0	0.0	5	0.0	0.5	0.73	0.68	1.2	1.3	25.2	30.8		819.0	1,250.8	2.60	3.9	0.80	1.0	0.95	1.36	1.08	1.00	0.30	1.30		0.29	0.68				0.00	0.00	14.0
12.50	12.25	120.0	21.2	50.0	0.0	5	0.0	0.5	0.76	0.69	1.2	1.3	25.2	30.8		823.0	1,263.3	2.64	3.8	0.80	1.0	0.95	1.36	1.08	1.00	0.30	1.30		0.30	0.69				0.00	0.00	14.0
13.00	12.75	120.0	21.4	50.0	0.0	5	0.0	0.6	0.79	0.70	1.2	1.3	25.2	30.8		827.0	1,275.4	2.68	3.8	0.80	1.0	0.95	1.36	1.07	1.00	0.31	1.30		0.32	0.70				0.00	0.00	14.0
13.50	13.25	120.0	21.5	50.0	0.0	5	0.0	0.6	0.82	0.72	1.2	1.3	25.1	30.7		830.8	1,287.3	2.71	3.8	0.80	1.0	0.95	1.36	1.07	1.00	0.31	1.30		0.33	0.72				0.00	0.00	14.0
14.00	13.75	120.0	21.7	50.0	0.0	5	0.0	0.6	0.85	0.73	1.2	1.3	25.1	30.7		834.5	1,298.8	2.74	3.7	0.80	1.0	0.94	1.36	1.07	1.00	0.32	1.30		0.34	0.73				0.00	0.00	14.0
14.50	14.25	120.0	21.8	50.0	0.0	5	0.0	0.6	0.88	0.75	1.1	1.3	25.1	30.7		838.2	1,310.1	2.78	3.7	0.80	1.0	0.94	1.36	1.06	1.00	0.32	1.30		0.35	0.75				0.00	0.00	14.0
15.00	14.75	120.0	21.9	50.0	0.0	5	0.0	0.6	0.91	0.76	1.1	1.3	25.0	30.6		841.7	1,321.1	2.81	3.7	0.80	1.0	0.94	1.36	1.06	1.00	0.33	1.30		0.36	0.76				0.00	0.00	14.0
15.50	15.25	120.0	11.4	50.0	0.0	5	0.0	0.6	0.94	0.78	1.2	1.1	13.4	19.0		773.2	1,114.8	2.61	3.4	0.72	1.0	0.94	1.16	1.04	1.00	0.40	1.30		0.37	0.78				0.00	0.00	8.0
16.00	15.75	120.0	11.5	50.0	0.0	5	0.0	0.6	0.97	0.79	1.2	1.1	13.3	18.9		776.2	1,123.5	2.64	3.3	0.72	1.0	0.93	1.16	1.03	1.00	0.40	1.30		0.38	0.79				0.00	0.00	8.0
16.50	16.25	120.0	11.5	50.0	0.0	5	0.0	0.6	1.00	0.81	1.1	1.1	13.3	18.9		779.2	1,132.3	2.67	3.3	0.71	1.0	0.93	1.16	1.03	1.00	0.41	1.30		0.39	0.81				0.00	0.00	8.0
17.00	16.75	120.0	11.6	50.0	0.0	5	0.0	0.6	1.03	0.82	1.1	1.1	13.2	18.8		782.2	1,140.8	2.70	3.3	0.70	1.0	0.93	1.15	1.03	1.00	0.41	1.30		0.40	0.82				0.00	0.00	8.0
17.50	17.25	120.0	11.6	50.0	0.0	5	0.0	0.6	1.06	0.83	1.1	1.1	13.1	18.7		785.0	1,149.3	2.73	3.3	0.69	1.0	0.93	1.15	1.03	1.00	0.42	1.30		0.41	0.83				0.00	0.00	8.0
18.00	17.75	120.0	11.7	50.0	0.0	5	0.0	0.6	1.09	0.85	1.1	1.1	13.1	18.7		787.9	1,157.6	2.76	3.3	0.69	1.0	0.92	1.15	1.03	1.00	0.42	1.30		0.42	0.85				0.00	0.00	8.0
18.50	18.25	120.0	11.7	50.0	0.0	5	0.0	0.6	1.12	0.86	1.1	1.1	13.0	18.6		790.6	1,165.7	2.79	3.2	0.68	1.0	0.92	1.15	1.02	1.00	0.43	1.30		0.43	0.86				0.00	0.00	8.0
19.00	18.75	120.0	11.8	50.0	0.0	5	0.0	0.6	1.15	0.88	1.1	1.1	12.9	18.6		793.3	1,173.7	2.82	3.2	0.68	1.0	0.92	1.15	1.02	1.00	0.43	1.30		0.44	0.88				0.00	0.00	8.0
19.50	19.25	120.0	11.8	50.0	0.0	5	0.0	0.6	1.18	0.89	1.1	1.1	12.9	18.5		796.0	1,181.5	2.85	3.2	0.67	1.0	0.92	1.15	1.02	1.00	0.43	1.30		0.45	0.89				0.00	0.00	8.0
20.00	19.75	120.0	11.8	50.0	0.0	5	0.0	0.6	1.21	0.91	1.1	1.1	12.8	18.4		798.6	1,189.3	2.88	3.2	0.66	1.0	0.91	1.15	1.02	1.00	0.44	1.30		0.46	0.91				0.00	0.00	8.0
20.50	20.25	125.0	11.9	50.0	0.0	5	0.0	0.6	1.24	0.92	1.1	1.1	12.7	18.4		785.0	1,197.1	2.90	3.2	0.64	1.0	0.91	1.15	1.02	1.00	0.44	1.30		0.48	0.92				0.00	0.00	8.0
21.00	20.75	125.0	11.9	50.0	0.0	5	0.0	0.6	1.27	0.94	1.1	1.1	12.7	18.3		787.7	1,205.2	2.93	3.1	0.64	1.0	0.91	1.15	1.01	1.00	0.45	1.30		0.49	0.94				0.00	0.00	8.0
21.50	21.25	125.0	11.9	50.0	0.0	5	0.0	0.6	1.30	0.95	1.1	1.1	12.6	18.2		790.2	1,213.1	2.96	3.1	0.63	1.0	0.90	1.15	1.01	1.00	0.45	1.30		0.50	0.95				0.00	0.00	8.0
22.00	21.75	125.0	12.0	50.0	0.0	5	0.0	0.6	1.33	0.97	1.0	1.1	12.5	18.1		792.8	1,220.8	2.99	3.1	0.62	1.0	0.90	1.15	1.01	1.00	0.45	1.30		0.51	0.97				0.00	0.00	8.0
22.50	22.25	125.0	12.0	50.0	0.0	5	0.0	0.6	1.37	0.98	1.0	1.1	12.4	18.1		795.3	1,228.7	3.02	3.1	0.62	1.0	0.90	1.15	1.01	1.00	0.45	1.30		0.52	0.98				0.00	0.00	8.0
23.00	22.75	125.0	12.0	50.0	0.0	5	0.0	0.6	1.40	1.00	1.0	1.1	12.4	18.0		797.7	1,236.2	3.05	3.1	0.61	1.0	0.90	1.14	1.01	1.00	0.46	1.30		0.53	1.00				0.00	0.00	8.0
23.50	23.25	125.0	12.0	50.0	0.0	5	0.0	0.6	1.43	1.01	1.0	1.1	12.3	17.9		800.1	1,243.6	3.08	3.0	0.61	1.0	0.89	1.14	1.00	1.00	0.46	1.30		0.54	1.01				0.00	0.00	8.0
24.00	23.75	125.0	12.1	50.0	0.0	5	0.0	0.6	1.46	1.03	1.0	1.1	12.2	17.8		802.5	1,250.9	3.11	3.0	0.60	1.0	0.89	1.14	1.00	1.00	0.46	1.30		0.55	1.03				0.00	0.00	8.0
24.50	24.25	125.0	12.1	50.0	0.0	5	0.0	0.6	1.49	1.05	1.0	1.1	12.2	17.8		804.8	1,258.1	3.14	3.0	0.60	1.0	0.89	1.14	1.00	1.00	0.47	1.30		0.56	1.05				0.00	0.00	8.0
25.00	24.75	125.0	12.1	50.0	0.0	5	0.0	0.6	1.52	1.06	1.0	1.1	12.1	17.7		807.1	1,265.2	3.17	3.0	0.59	1.0	0.88	1.14	1.00	1.00	0.47	1.30		0.57	1.06				0.00	0.00	8.0
25.50	25.25	125.0	12.1	50.0	0.0	5	0.0	0.6	1.55	1.08	1.0	1.1	12.0	17.6		809.3	1,272.3	3.19	3.0	0.59	1.0	0.88	1.14	1.00	1.00	0.47	1.30		0.58	1.08				0.00	0.00	8.0
26.00	25.75	125.0	13.9	50.0	0.0	5	0.0	0.6	1.58	1.09	1.0	1.1	13.6	19.2		824.9	1,321.9	3.27	3.0	0.59	1.0	0.88	1.16	1.00	1.00	0.46	1.30		0.59	1.09				0.00	0.00	9.0
26.50	26.25	125.0	13.9	50.0	0.0	5	0.0	0.7	1.62	1.11	1.0	1.1	13.6	19.2		827.2	1,329.1	3.30	3.0	0.59	1.0	0.87	1.16	0.99	1.00	0.47	1.30		0.59	1.11				0.00	0.00	9.0
27.00	26.75	125.0	13.9	50.0	0.0	5	0.0	0.7	1.65	1.12	1.0	1.1	13.5	19.1		829.3	1,336.0	3.33	3.0	0.58	1.0	0.87	1.16	0.99	1.00	0.47	1.30		0.60	1.12				0.00	0.00	9.0
27.50	27.25	125.0	13.9	50.0	0.0	5	0.0	0.7	1.68	1.14	1.0	1.1	13.4	19.0		831.4	1,342.8	3.36	2.9	0.58	1.0	0.87	1.16	0.99	1.00	0.47	1.30		0.61	1.14				0.00	0.00	9.0
28.00	27.75	125.0	13.9	50.0	0.0	5	0.0	0.7	1.71	1.16	1.0	1.1	13.3	19.0		833.5	1,349.4	3.38	2.9	0.57	1.0	0.87	1.16	0.99	1.00	0.47	1.30		0.62	1.16				0.00	0.00	9.0
28.50	28.25	125.0	13.9	50.0	0.0	5	0.0	0.7	1.74	1.17	1.0	1.1	13.3	18.9		835.5	1,356.0	3.41	2.9	0.57	1.0	0.86	1.16	0.99	1.00	0.47	1.30		0.63	1.17				0.00	0.00	9.0
29.00	28.75	125.0	14.0	50.0	0.0	5	0.0	0.7	1.77	1.19	0.9	1.1	13.2	18.8		837.5	1,362.5	3.44	2.9	0.57	1.0	0.86	1.15	0.99	1.00	0.47	1.30		0.64	1.19				0.00	0.00	9.0
29.50	29.25	125.0	14.0	50.0	0.0	5	0.0	0.7	1.80	1.20	0.9	1.1	13.1	18.7		839.5	1,368.9	3.46	2.9	0.56	1.0	0.86	1.15	0.98	1.00	0.48	1.30		0.65	1.20				0.00	0.00	9.0
30.00	29.75	125.0	14.0	50.0	0.0	5	0.0	0.7	1.83	1.22	0.9	1.1	13.0	18.6		841.4	1,375.3	3.49	2.9	0.56	1.0	0.85	1.15	0.98	1.00	0.48	1.30		0.66	1.22				0.00	0.00	9.0
30.50	30.25	125.0	15.8	50.0	0.0	5	0.0	0.7	1.87	1.23	0.9	1.1	14.6	20.2		856.1	1,423.7	3.57	2.9	0.56	1.0	0.85	1.17	0.98	1.00	0.47	1.30		0.67	1.23				0.00	0.00	10.0
31.00	30.75	125.0	15.8	50.0	0.0	5	0.0	0.7	1.90	1.25	0.9	1.1	14.5	20.2		858.0	1,430.1	3.60	2.9	0.56	1.0	0.85	1.17	0.98	1.00	0.47	1.30		0.68	1.25				0.00	0.00	10.0
31.50	31.25	125.0	15.8	50.0	0.0	5	0.0	0.7	1.93	1.27	0.9	1.1	14.5	20.1		859.9	1,436.3	3.62	2.9	0.55	1.0	0.84	1.17	0.98	1.00	0.47	1.30		0.68	1.27				0.00	0.00	10.0
32.00	31.75	125.0	15.8	50.0	0.0	5	0.0	0.7	1.96	1.28	0.9	1.1	14.4	20.0		861.7	1,442.4	3.65	2.8	0.55	1.0	0.84	1.17	0.98	1.00	0.47	1.30		0.69	1.28				0.00	0.00	10.0
32.50	32.25	125.0	15.8	50.0	0.0	5	0.0	0.7	1.99	1.30	0.9	1.1	14.3	19.9		863.5	1,448.5	3.67	2.8	0.55	1.0	0.84	1.17	0.98	1.00	0.47	1.30		0.70	1.30				0.00	0.00	10.0
33.00	32.75	125.0	15.8	50.0	0.0	5	0.0	0.7	2.02	1.31	0.9	1.1	14.2	19.8		865.3	1,454.5	3.70	2.8	0.54	1.0	0.83	1.17	0.97	1.00	0.48	1.30		0.71	1.31				0.00	0.00	10.0
33.50	33.25	125.0	15.8	50.0	0.0	5	0.0	0.7	2.05	1.33	0.9	1.1	14.1	19.7		867.1	1,460.7	3.73	2.8	0.54	1.0	0.83	1.17	0.97	1.00	0.48	1.30		0.72	1.33				0.00	0.00	10.0
34.00	33.75	125.0	15.8	50.0	0.0	5	0.0	0.7	2.08	1.34	0.9	1.1	14.1	19.7		868.9	1,466.5	3.75	2.8	0.53	1.0	0.83	1.17	0.97	1.00	0.48	1.30		0.73	1.34				0.00	0.00	10.0
34.50	34.25	125.0	15.8	50.0	0.0	5	0.0	0.7	2.12	1.36	0.9	1.1	14.0	19.6		870.6	1,472.3	3.78	2.8	0.53	1.0	0.82	1.17	0.97	1.00	0.48	1.30		0.73	1.36				0.00	0.00	10.0

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Z_b (ft)	Z_m (ft)	γ (pcf)	N_{60}	FC(%)	CC(%)	USCS	φ (°)	C' (tsf)	σ_{v0} (tsf)	σ_{v0}' (tsf)	C_N	C_s	$(N_1)_{60}$	$(N_1)_{60cs}$	D_R (%)	V_s (ft/s)	G_0 (tsf)	σ_p' (tsf)	OCR_{G0}	S_u/σ_{v0}'	K_0	r_d	MSF	K_σ	K_α	$CSR_{7.5}$	$CRR_{7.5}$	FS	τ_{av} (tsf)	p (tsf)	G/G_0	γ_{max} (%)	ε_v (%)	ΔS_i	ΣS_i (in)	N
35.00	34.75	125.0	15.8	50.0	0.0	5	0.0	0.7	2.15	1.37	0.9	1.1	13.9	19.5		872.3	1,478.0	3.80	2.8	0.53	1.0	0.82	1.16	0.97	1.00	0.48	1.30		0.74	1.37				0.00	0.00	10.0
35.50	35.25	125.0	15.8	50.0	0.0	5	0.0	0.7	2.18	1.39	0.9	1.1	13.8	19.4		873.9	1,483.7	3.83	2.8	0.52	1.0	0.82	1.16	0.97	1.00	0.48	1.30		0.75	1.39				0.00	0.00	10.0
36.00	35.75	125.0	15.9	50.0	0.0	5	0.0	0.7	2.21	1.41	0.9	1.1	13.8	19.4		875.6	1,489.3	3.85	2.7	0.52	1.0	0.82	1.16	0.97	1.00	0.48	1.30		0.76	1.41				0.00	0.00	10.0
36.50	36.25	125.0	15.9	50.0	0.0	5	0.0	0.7	2.24	1.42	0.9	1.1	13.7	19.3		877.2	1,494.8	3.88	2.7	0.52	1.0	0.81	1.16	0.96	1.00	0.48	1.30		0.77	1.42				0.00	0.00	10.0
37.00	36.75	125.0	15.9	50.0	0.0	5	0.0	0.7	2.27	1.44	0.9	1.1	13.6	19.2		878.8	1,500.3	3.90	2.7	0.51	1.0	0.81	1.16	0.96	1.00	0.48	1.30		0.77	1.44				0.00	0.00	10.0
37.50	37.25	125.0	15.9	50.0	0.0	5	0.0	0.7	2.30	1.45	0.9	1.1	13.5	19.1		880.4	1,505.8	3.93	2.7	0.51	1.0	0.81	1.16	0.96	1.00	0.48	1.30		0.78	1.45				0.00	0.00	10.0
38.00	37.75	125.0	27.8	50.0	0.0	5	0.0	0.8	2.33	1.47	0.9	1.2	24.3	29.9		950.2	1,753.7	4.24	2.9	0.55	1.0	0.80	1.34	0.94	1.00	0.42	1.30		0.79	1.47				0.00	0.00	16.0
38.50	38.25	125.0	27.8	50.0	0.0	5	0.0	0.8	2.37	1.48	0.9	1.2	24.2	29.8		951.7	1,759.4	4.27	2.9	0.55	1.0	0.80	1.34	0.94	1.00	0.42	1.30		0.80	1.48				0.00	0.00	16.0
39.00	38.75	125.0	27.8	50.0	0.0	5	0.0	0.8	2.40	1.50	0.9	1.2	24.1	29.7		953.2	1,765.0	4.29	2.9	0.55	1.0	0.80	1.34	0.94	1.00	0.43	1.30		0.80	1.50				0.00	0.00	16.0
39.50	39.25	125.0	27.8	50.0	0.0	5	0.0	0.8	2.43	1.52	0.9	1.2	24.0	29.6		954.7	1,770.5	4.32	2.8	0.54	1.0	0.79	1.34	0.94	1.00	0.43	1.30		0.81	1.52				0.00	0.00	16.0
40.00	39.75	125.0	27.7	50.0	0.0	5	0.0	0.8	2.46	1.53	0.9	1.2	23.9	29.5		956.2	1,775.9	4.34	2.8	0.54	1.0	0.79	1.33	0.94	1.00	0.43	1.30		0.82	1.53				0.00	0.00	16.0
40.50	40.25	125.0	27.7	50.0	0.0	5	0.0	0.8	2.49	1.55	0.9	1.2	23.7	29.4		957.6	1,781.4	4.37	2.8	0.54	1.0	0.79	1.33	0.94	1.00	0.43	1.30		0.83	1.55				0.00	0.00	16.0
41.00	40.75	125.0	27.7	50.0	0.0	5	0.0	0.8	2.52	1.56	0.9	1.2	23.6	29.2		959.0	1,786.7	4.39	2.8	0.53	1.0	0.78	1.33	0.93	1.00	0.43	1.30		0.83	1.56				0.00	0.00	16.0
41.50	41.25	125.0	27.7	50.0	0.0	5	0.0	0.8	2.55	1.58	0.8	1.2	23.5	29.1		960.5	1,792.0	4.42	2.8	0.53	1.0	0.78	1.33	0.93	1.00	0.43	1.30		0.84	1.58				0.00	0.00	16.0
42.00	41.75	125.0	27.7	50.0	0.0	5	0.0	0.8	2.58	1.59	0.8	1.2	23.4	29.0		961.9	1,797.2	4.44	2.8	0.53	1.0	0.78	1.33	0.93	1.00	0.43	1.30		0.85	1.59				0.00	0.00	16.0
42.50	42.25	125.0	27.7	50.0	0.0	5	0.0	0.8	2.62	1.61	0.8	1.2	23.3	28.9		963.2	1,802.4	4.47	2.8	0.52	1.0	0.77	1.32	0.93	1.00	0.43	1.30		0.85	1.61				0.00	0.00	16.0
43.00	42.75	125.0	47.5	32.0	0.0	12	40.5	0.1	2.65	1.63	0.9	1.3	42.0	47.4	95.5	978.7	1,860.5	4.55	2.8		0.7	0.77	1.42	0.87	1.00	0.43	1.30	2.00	0.86	1.28		0.000	0.0000	0.00	0.00	26.0
43.50	43.25	125.0	47.5	32.0	0.0	12	40.5	0.1	2.68	1.64	0.9	1.3	41.8	47.3	95.4	979.7	1,864.4	4.58	2.8		0.7	0.77	1.42	0.87	1.00	0.43	1.30	2.00	0.87	1.29		0.000	0.0000	0.00	0.00	26.0
44.00	43.75	125.0	47.5	32.0	0.0	12	40.5	0.1	2.71	1.66	0.9	1.3	41.7	47.2	95.2	980.7	1,868.2	4.60	2.8		0.7	0.76	1.42	0.87	1.00	0.43	1.30	2.00	0.87	1.30		0.000	0.0000	0.00	0.00	26.0
44.50	44.25	125.0	47.5	32.0	0.0	12	40.5	0.1	2.74	1.67	0.9	1.3	41.6	47.1	95.1	981.6	1,871.9	4.62	2.8		0.7	0.76	1.42	0.86	1.00	0.43	1.30	2.00	0.88	1.31		0.000	0.0000	0.00	0.00	26.0
45.00	44.75	125.0	47.6	32.0	0.0	12	40.5	0.1	2.77	1.69	0.9	1.3	41.5	46.9	95.0	982.6	1,875.6	4.64	2.8		0.7	0.76	1.42	0.86	1.00	0.43	1.30	2.00	0.89	1.32		0.000	0.0000	0.00	0.00	26.0
45.50	45.25	125.0	58.6	50.0	0.0	5	0.0	1.0	2.80	1.70	0.9	1.3	51.7	57.3		1,083.2	2,279.1	5.12	3.0	0.57	1.0	0.76	1.42	0.86	1.00	0.43	1.30		0.89	1.70				0.00	0.00	32.0
46.00	45.75	125.0	58.6	50.0	0.0	5	0.0	1.0	2.83	1.72	0.9	1.3	51.6	57.2		1,084.6	2,285.3	5.14	3.0	0.57	1.0	0.75	1.42	0.85	1.00	0.43	1.30		0.90	1.72				0.00	0.00	32.0
46.50	46.25	125.0	69.6	12.0	0.0	12	40.5	0.1	2.87	1.73	0.9	1.3	61.1	63.2	100.0	1,015.9	2,004.9	4.85	2.8		0.7	0.75	1.42	0.85	1.00	0.43	1.30	2.00	0.90	1.37		0.000	0.0000	0.00	0.00	38.0
47.00	46.75	125.0	69.6	12.0	0.0	12	40.5	0.1	2.90	1.75	0.9	1.3	61.0	63.0	100.0	1,016.8	2,008.2	4.87	2.8		0.7	0.75	1.42	0.85	1.00	0.43	1.30	2.00	0.91	1.38		0.000	0.0000	0.00	0.00	38.0
47.50	47.25	125.0	69.6	12.0	0.0	12	40.5	0.1	2.93	1.77	0.9	1.3	60.8	62.9	100.0	1,017.6	2,011.6	4.89	2.8		0.7	0.74	1.42	0.85	1.00	0.43	1.30	2.00	0.92	1.39		0.000	0.0000	0.00	0.00	38.0
48.00	47.75	125.0	62.3	12.0	0.0	12	40.5	0.1	2.96	1.78	0.9	1.3	54.3	56.4	100.0	998.6	1,937.1	4.82	2.7		0.7	0.74	1.42	0.84	1.00	0.43	1.30	2.00	0.92	1.39		0.000	0.0000	0.00	0.00	34.0
48.50	48.25	125.0	62.3	12.0	0.0	12	40.5	0.1	2.99	1.80	0.9	1.3	54.2	56.3	100.0	999.4	1,940.2	4.85	2.7		0.7	0.74	1.42	0.84	1.00	0.43	1.30	2.00	0.93	1.40		0.000	0.0000	0.00	0.00	34.0
49.00	48.75	125.0	62.3	12.0	0.0	12	40.5	0.1	3.02	1.81	0.9	1.3	54.1	56.2	100.0	1,000.2	1,943.3	4.87	2.7		0.7	0.73	1.42	0.84	1.00	0.43	1.30	2.00	0.93	1.41		0.000	0.0000	0.00	0.00	34.0
49.50	49.25	125.0	62.3	12.0	0.0	12	40.5	0.1	3.05	1.83	0.9	1.3	54.0	56.1	100.0	1,001.0	1,946.4	4.89	2.7		0.7	0.73	1.42	0.84	1.00	0.43	1.30	2.00	0.94	1.42		0.000	0.0000	0.00	0.00	34.0
50.00	49.75	125.0	62.4	12.0	0.0	12	40.5	0.1	3.08	1.84	0.9	1.3	53.9	56.0	100.0	1,001.8	1,949.4	4.91	2.7		0.7	0.73	1.42	0.83	1.00	0.43	1.30	2.00	0.95	1.43		0.000	0.0000	0.00	0.00	34.0
50.50	50.25	125.0	62.4	12.0	0.0	12	40.5	0.1	3.12	1.86	0.9	1.3	53.8	55.8	100.0	1,002.5	1,952.4	4.93	2.7		0.7	0.72	1.42	0.83	1.00	0.43	1.30		0.95	1.44		0.000	0.0000	0.00	0.00	34.0
51.00	50.75	125.0	62.4	12.0	0.0	12	40.5	0.1	3.15	1.88	0.9	1.3	53.7	55.7	100.0	1,003.3	1,955.4	4.95	2.6		0.7	0.72	1.42	0.83	1.00	0.43	1.30		0.96	1.45		0.000	0.0000	0.00	0.00	34.0
51.50	51.25	125.0	62.4	12.0	0.0	12	40.5	0.1	3.18	1.89	0.9	1.3	53.5	55.6	100.0	1,004.0	1,958.3	4.97	2.6		0.7	0.72	1.42	0.83	1.00	0.44	1.30		0.96	1.46		0.000	0.0000	0.00	0.00	34.0

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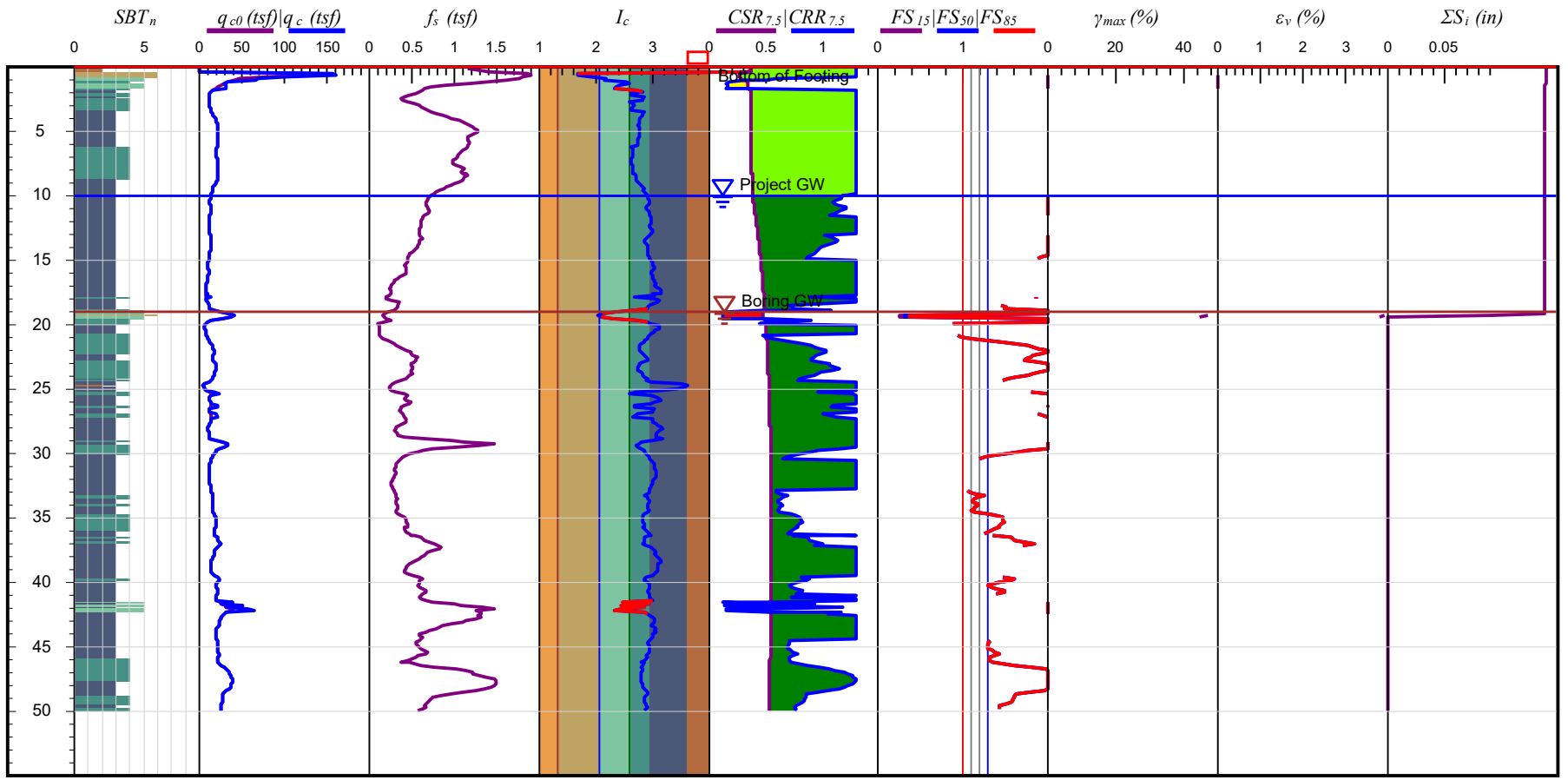

Sensitive fine grained
Organic soils - peats
Clay to silty clay
Silty clay to clayey silt
Sandy silt to silty sand
Silty sand to clean sand
Dense sand to gravelly sand
Clayey sand to very stiff sand
Very stiff fine grained *

* Overconsolidated or cemented

Silt Correction:
$K=(1\text{-}FC)^{0.75}$

Earthquake & Groundwater Information:
Magnitude = 6.51
Max. Acceleration = 0.648 g
Project GW = 10 ft
Maximum Settlement = 0.14 in
Settl. at Bottom of Footing = 0.14 in

Liquefaction: Boulanger & Idriss (2010-16)
Settl.: [dry] Pradel (1998); [sat] Idriss & Boulanger (2008)
Lateral spreading: Idriss & Boulanger (2008)
M correction: [Sand; Clay] Boulanger & Idriss(2004)
σv correction: Idriss & Boulanger (2008)
Stress reduction: Idriss & Boulanger (2008)

GORIAN & ASSOCIATES, INC

Seismic Settlement Potential - CPT Data

Project:	Canoga park High School Modernization				
Location:	6850 Topanga Canyon Blvd.				
Project No.:	2880-83-3-100	CPT No.:	CPT-15	Figure:	1

X:\2880-0-0-LA Unified Sch Dist-Master File\2880-83 Canoga Park High Sch\2880-83-3 Comprensive Modernization\Seismic Settlement\GeoSuite_2880-83-3-100_CPT-15.csv

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Prepared at 1/14/2022 5:20:04 PM

Z_b (ft)	Z_m (ft)	q_c (tsf)	f_s (tsf)	u_2 (tsf)	q_t (tsf)	R_f	SBT	γ (pcf)	σ_{v0} (tsf)	σ_{v0}' (tsf)	Q_t	Q_{tn}	F_R	SBT_n	I_c	q_{c1N}	K_c	$Q_{tn,cs}$	$(SBT)_{Ic}$	B_q	$(SBT)_{Bq}$	F_C (%)	c	R	V_s (ft/s)	G_0 (tsf)	E' (tsf)	M (tsf)	σ_p' (tsf)	OCR	S_t	S_u (tsf)	S_u/σ_{v0}'	φ (°)	c' (tsf)
0.30	0.15	0.5	1.15	0.01	0.5	615.94	2	121	0.01	0.01	2.0	0.8	218.95	2	4.77	0.9	0.00	0.9	2	-0.01	1	100.00	0.64	274.2	327.9	202		0	0.18	0.3	0.0	0.04	0.06	16.8	0.04
0.40	0.34	0.7	1.40	0.01	0.7	227.35	2	116	0.02	0.02	2.5	1.1	210.50	2	4.69	1.1	0.00	1.1	2	-0.02	1	100.00	0.66	274.2	350.5	221		1	0.22	0.4	0.0	0.05	0.08	17.9	0.05
0.50	0.47	156.2	1.86	0.05	156.2	1.51	8	133	0.03	0.03	590.4	250.9	1.19	6	1.68	251.0	1.02	251.0	6	0.00	1	5.75	0.36	273.4	799.0	1,315	941	1,883	0.28	9.7				44.0	0.01
0.70	0.60	160.4	1.89	0.04	160.4	1.46	8	133	0.04	0.04	606.2	257.6	1.18	6	1.67	257.7	1.01	257.7	6	0.00	1	5.58	0.37	273.4	804.9	1,335	955	1,911	0.37	9.8				44.1	0.01
0.80	0.73	102.7	1.79	0.03	102.8	2.34	7	132	0.05	0.05	388.3	165.0	1.75	6	1.93	165.1	1.21	201.1	6	0.00	1	11.01	0.40	273.5	756.8	1,172	844	1,689	0.33	7.3				42.0	0.01
0.90	0.86	68.1	1.76	0.03	68.1	3.77	5	131	0.05	0.05	257.1	109.3	2.59	5	2.17	109.3	1.59	174.7	5	0.00	1	18.06	0.42	273.6	719.9	1,056	764	1,528	0.29	5.3				40.0	0.01
1.10	0.99	66.1	1.61	0.03	66.1	3.94	5	131	0.06	0.06	249.7	106.1	2.43	5	2.16	106.2	1.56	169.9	5	0.00	1	17.68	0.43	273.6	704.0	1,011	731	1,462	0.33	5.2				39.9	0.01
1.20	1.13	33.8	1.39	0.04	33.8	4.12	4	125	0.07	0.07	127.5	54.2	4.12	4	2.53	54.3	2.88	119.6	5	0.00	1	31.83	0.47	273.7	634.3	780	593	472	0.21	2.9				36.7	0.00
1.30	1.26	28.5	1.17	0.03	28.5	4.12	4	123	0.08	0.08	107.5	45.7	4.13	4	2.58	45.8	3.18	109.6	5	0.00	1	34.28	0.49	273.7	601.8	693	534	398	0.20	2.5				35.9	0.00
1.50	1.39	32.3	0.91	0.02	32.3	3.67	5	123	0.09	0.09	121.7	51.7	2.82	5	2.42	51.9	2.39	114.1	5	0.00	1	27.33	0.48	273.7	580.5	646	497	451	0.25	2.8				36.5	0.00
1.60	1.52	32.2	0.73	0.01	32.2	3.27	5	123	0.10	0.10	121.2	51.5	2.28	5	2.36	51.7	2.15	112.1	5	0.00	1	24.85	0.48	273.7	557.1	591	458	449	0.27	2.8				36.4	0.01
1.70	1.65	31.8	0.66	-0.02	31.8	3.29	5	122	0.10	0.10	119.8	50.9	2.07	5	2.34	51.1	2.06	110.6	5	0.00	1	23.93	0.49	273.7	545.7	567	439	444	0.29	2.7				36.4	0.01
1.80	1.78	16.6	0.62	-0.02	16.6	3.75	4	117	0.11	0.11	62.5	26.5	3.77	4	2.72	26.7	0.00	26.7	4	0.00	1	41.55	0.53	273.9	502.2	458		231	5.51	8.8	1.9	1.18	1.90	33.3	1.18
2.00	1.91	13.7	0.60	-0.01	13.7	4.36	3	116	0.12	0.12	51.4	21.8	4.39	3	2.83	22.0	0.00	22.0	4	0.00	1	47.58	0.54	273.9	487.4	429		190	4.53	7.3	1.6	0.97	1.56	32.3	0.97
2.10	2.04	11.8	0.56	0.00	11.8	4.70	3	115	0.13	0.13	44.2	18.8	4.75	4	2.63	19.0	0.00	19.0	4	0.00	1	36.94	0.55	273.9	399.4	286		164	3.90	6.3	1.5	0.84	1.34	31.6	0.84
2.30	2.18	11.2	0.47	0.00	11.2	4.17	3	114	0.13	0.13	42.0	17.8	4.22	4	2.61	18.1	0.00	18.1	4	0.00	1	35.89	0.56	273.9	384.0	261		155	3.70	5.9	1.7	0.79	1.27	31.4	0.79
2.40	2.32	11.2	0.40	0.00	11.2	3.59	4	113	0.14	0.14	41.8	17.7	3.64	3	2.84	18.0	0.00	18.0	4	0.00	1	48.48	0.56	274.0	443.6	345		155	3.68	5.9	2.0	0.79	1.27	31.3	0.79
2.50	2.44	11.2	0.38	-0.02	11.2	3.35	4	112	0.15	0.15	41.7	17.7	3.40	4	2.82	18.0	0.00	18.0	4	0.00	1	47.38	0.56	274.0	438.3	335		155	3.68	5.9	2.1	0.79	1.27	31.3	0.79
2.60	2.57	11.2	0.39	-0.01	11.2	3.49	4	112	0.16	0.16	41.7	17.7	3.54	4	2.83	18.0	0.00	18.0	4	0.00	1	48.03	0.57	274.0	441.2	340		154	3.68	5.9	2.0	0.79	1.27	31.3	0.79
2.80	2.69	11.2	0.45	-0.01	11.2	4.01	3	114	0.16	0.16	41.8	17.8	4.07	4	2.60	18.1	0.00	18.1	4	0.00	1	35.40	0.57	274.0	381.1	256		155	3.69	5.9	1.7	0.79	1.27	31.4	0.79
2.90	2.83	11.5	0.54	0.00	11.5	4.69	3	115	0.17	0.17	42.7	18.2	4.77	4	2.64	18.4	0.00	18.4	4	0.00	1	37.49	0.57	274.0	395.6	279		158	3.77	6.1	1.5	0.81	1.30	31.5	0.81
3.00	2.96	11.6	0.59	0.00	11.6	5.07	3	116	0.18	0.18	43.3	18.4	5.15	4	2.66	18.7	0.00	18.7	4	0.00	1	38.55	0.57	274.0	403.2	292		160	3.82	6.1	1.4	0.82	1.31	31.5	0.82
3.20	3.10	12.4	0.62	0.01	12.4	4.99	3	116	0.19	0.19	46.0	19.5	5.07	4	2.64	19.8	0.00	19.8	4	0.00	1	37.36	0.57	274.0	409.6	303		170	4.05	6.5	1.4	0.87	1.40	31.8	0.87
3.30	3.23	13.2	0.65	0.02	13.2	4.93	3	117	0.19	0.19	49.1	20.9	5.00	4	2.62	21.2	0.00	21.2	4	0.00	1	36.19	0.56	274.0	417.0	315		182	4.33	7.0	1.4	0.93	1.49	32.1	0.93
3.40	3.36	13.7	0.68	0.03	13.7	4.99	3	117	0.20	0.20	51.1	21.7	5.07	4	2.61	22.0	0.00	22.0	4	0.00	1	35.80	0.56	274.0	423.3	326		189	4.51	7.2	1.4	0.97	1.55	32.3	0.97
3.60	3.49	14.4	0.72	0.02	14.4	5.01	3	118	0.21	0.21	53.8	22.9	5.09	3	2.85	23.2	0.00	23.2	4	0.00	1	49.12	0.56	273.9	506.9	470		199	4.74	7.6	1.4	1.02	1.63	32.6	1.02
3.70	3.62	15.4	0.78	0.00	15.4	5.09	3	118	0.22	0.22	57.3	24.3	5.16	3	2.84	24.7	0.00	24.7	4	0.00	1	48.19	0.56	273.9	517.8	494		212	5.05	8.1	1.4	1.08	1.74	32.8	1.08
3.80	3.75	16.6	0.87	0.00	16.6	5.24	3	119	0.23	0.23	61.8	26.3	5.31	3	2.82	26.6	0.00	26.6	4	0.00	1	47.27	0.55	273.9	532.9	527		229	5.45	8.8	1.3	1.17	1.88	33.2	1.17
3.90	3.88	17.7	0.92	0.00	17.7	5.23	3	120	0.23	0.23	65.8	28.0	5.30	3	2.80	28.4	0.00	28.4	4	0.00	1	46.10	0.55	273.9	542.9	550		244	5.81	9.3	1.3	1.24	2.00	33.5	1.24
4.10	4.00	18.8	0.96	0.00	18.8	5.12	3	121	0.24	0.24	70.3	29.9	5.19	3	2.78	30.2	0.00	30.2	4	0.00	1	44.58	0.55	273.9	551.4	570		260	6.20	10.0	1.4	1.33	2.13	33.8	1.33
4.20	4.14	19.6	1.05	0.03	19.6	5.35	3	121	0.25	0.25	73.3	31.2	5.42	3	2.78	31.6	0.00	31.6	4	0.00	1	44.58	0.55	273.9	563.4	598		272	6.47	10.4	1.3	1.39	2.23	34.0	1.39
4.30	4.28	20.5	1.10	0.03	20.5	5.37	3	122	0.26	0.26	76.6	32.6	5.43	3	2.76	33.0	0.00	33.0	4	0.00	1	43.86	0.54	273.9	571.3	618		284	6.76	10.9	1.3	1.45	2.33	34.2	1.45
4.50	4.41	21.2	1.14	0.02	21.2	5.37	3	122	0.27	0.27	78.7	33.6	5.43	3	2.75	34.0	0.00	34.0	4	0.00	1	43.35	0.54	273.9	576.6	631		292	6.96	11.2	1.3	1.49	2.40	34.4	1.49
4.60	4.54	21.7	1.19	0.02	21.7	5.45	3	122	0.27	0.27	78.6	34.5	5.52	3	2.75	34.9	0.00	34.9	4	0.00	1	43.16	0.54	273.9	583.2	647		301	7.16	11.5	1.3	1.53	2.46	34.5	1.53
4.70	4.66	22.0	1.23	0.02	22.0	5.57	3	123	0.28	0.28	77.4	34.9	5.64	3	2.75	35.3	0.00	35.3	4	0.00	1	43.35	0.54	273.9	587.8	659		304	7.24	11.6	1.3	1.55	2.49	34.6	1.55
4.90	4.80	22.1	1.24	0.02	22.1	5.64	3	123	0.29	0.29	75.4	35.0	5.71	3	2.76	35.5	0.00	35.5	4	0.00	1	43.48	0.54	273.9	589.8	664		305	7.26	11.7	1.2	1.56	2.50	34.6	1.56
5.00	4.93	22.1	1.28	0.02	22.1	5.77	3	123	0.30	0.30	73.3	35.0	5.85	3	2.76	35.5	0.00	35.5	4	0.00	1	43.91	0.54	273.9	592.6	671		305	7.26	11.7	1.2	1.56	2.50	34.6	1.56
5.10	5.06	22.1	1.27	0.02	22.1	5.72	3	123	0.31	0.31	71.5	35.1	5.80	3	2.76	35.6	0.00	35.6	4	0.00	1	43.71	0.55	273.9	591.8	669		306	7.28	11.7	1.2	1.56	2.50	34.6	1.56
5.30	5.20	21.9	1.23	0.02	21.9	5.63	3	123	0.31	0.31	68.9	34.7	5.71	3	2.76	35.2	0.00	35.2	4	0.00	1	43.58	0.55	273.9	588.2	660		303	7.21	11.6	1.2	1.54	2.48	34.5	1.54
5.40	5.34	21.4	1.19	0.02	21.4	5.55	3	122	0.32	0.32	65.4	33.9	5.64	3	2.76	34.4	0.00	34.4	4	0.00	1	43.79	0.55	273.9	582.1	645		295	7.03	11.3	1.3	1.51	2.42	34.4	1.51
5.50	5.46	21.4	1.15	0.02	21.4	5.39	3	122	0.33	0.33	63.9	33.9	5.48	3	2.75	34.4	0.00	34.4	4	0.00	1	43.29	0.55	273.9	578.7	636		295	7.02	11.3	1.3	1.51	2.42	34.4	1.51
5.70	5.60	21.6	1.15	0.02	21.6	5.33	3	122	0.34	0.34	62.8	34.1	5.41	3	2.75	34.7	0.00	34.7	4	0.00	1	42.93	0.55	273.9	578.8	636		298	7.08	11.4	1.3	1.52	2.44	34.5	1.52
5.80	5.73	21.8	1.16	0.02	21.8	5.32	3	122	0.35	0.35	62.1	34.5	5.41	3	2.74	35.1	0.00	35.1	4	0.00	1	42.74	0.55	273.9	580.7	641		301	7.16	11.5	1.3	1.54	2.47	34.5	1.54
5.90	5.85	22.0	1.17	0.02	22.0	5.33	3	122	0.35	0.35	61.3	34.8	5.41	3	2.74	35.4	0.00	35.4	4	0.00	1	42.61	0.55	273.9	582.4	645		304	7.23	11.6	1.3	1.55	2.49	34.6	1.55
6.10	5.99	22.1	1.17	0.02	22.1	5.30	3	122	0.36	0.36	60.0	34.9	5.39	3	2.74	35.5	0.00	35.5	4	0.00	1	42.49	0.55	273.9	582.2	645		304	7.24	11.6	1.3	1.55	2.49	34.6	1.55
6.20	6.13	21.8	1.16	0.01	21.8	5.32	3	122	0.37	0.37	57.8	34.4	5.41	3	2.74	35.0	0.00	35.0	4	0.00	1	42.77	0.55	273.9	580.0	639		300	7.14	11.5	1.3	1.53	2.46	34.5	1.53
6.30	6.26	21.2	1.15	0.01	21.2	5.41	3	122	0.38	0.38	55.0	33.5	5.51	4	2.61	34.1	0.00	34.1	4	0.00	1	36.09	0.56	273.9	527.4	528		292	6.94	11.2	1.3	1.49	2.39	34.4	1.49
6.40	6.37	20.5	1.13	0.00	20.5	5.51	3	122	0.39	0.39	52.3	32.4	5.61	4	2.64	33.0	0.00	33.0	4	0.00	1	37.13	0.56	273.9	525.5	523		282	6.71	10.8	1.3	1.44	2.31	34.2	1.44
6.60	6.51	20.1	1.10	0.00	20.1	5.44	3	122	0.39	0.39	50.1	31.7	5.55	4	2.64	32.3	0.00	32.3	4	0.00	1	37.56	0.56	274.0	523.1	517		276	6.58	10.6	1.3	1.41	2.27	34.1	1.41
6.70	6.64	20.0	1.08	0.01	20.0	5.37	3	122	0.40	0.40	48.9	31.6	5.48	4	2.65	32.2	0.00	32.2	4	0.00	1	37.72	0.56	274.0	522.8	516		275	6.55	10.5	1.3	1.40	2.25	34.1	1.40
6.80	6.77	20.2	1.06	0.02	20.2	5.26	3	121	0.41	0.41	48.3	31.8	5.37	4	2.64	32.4	0.00	32.4	4	0.00	1	37.56	0.56	274.0	523.5	517		277	6.59	10.6	1.3	1.41	2.27	34.1	1.41
7.00	6.90	19.9	1.04	0.01	19.9	5.22	3	121	0.42	0.42	46.8	31.4	5.33	4	2.65	32.0	0.00	32.0	4	0.00	1	37.92	0.56	274.0	522.5	515		273	6.51	10.5	1.3	1.39	2.24	34.1	1.39
7.10	7.03	20.1	1.04	0.01	20.1	5.16	3	121	0.43	0.43	46.2	31.6	5.27	4	2.65	32.3	0.00	32.3	4	0.00	1	37.92	0.56	274.0	524.4	518		275	6.55	10.5	1.3	1.40	2.26	34.1	1.40
7.20	7.16	20.9	1.01	0.02	20.9	4.85	3	121	0.43	0.43	47.2	32.8	4.95	4	2.63	33.5	0.00	33.5	4	0.00	1	36.61	0.56	274.0	525.9	521		286	6.81	10.9	1.4	1.46	2.35	34.3	1.46
7.40	7.30	21.4	0.98	0.02	21.4	4.60	3	121	0.44	0.44	47.4	33.7	4.69	4	2.61	34.4	0.00	34.4	4	0.00	1	35.68	0.56	274.0	526.3	521		293	6.99	11.2	1.5	1.50	2.41	34.4	1.50
7.50	7.42	21.5	0.98	0.03	21.5	4.54	3	121	0.45	0.45	46.9	33.8	4.63	4	2.61	34.5	0.00	34.5	4	0.00	1	35.66	0.56	274.0	527.4	523		295	7.02	11.3	1.5	1.50	2.42	34.4	1.50
7.60	7.56	21.4	0.98	0.03	21.4	4.60	3	121	0.46	0.46	45.8	33.7	4.70	4	2.62	34.4	0.00	34.4	4	0.00	1	36.23	0.56	274.0	529.8	528		293	6.98	11.2	1.5	1.50	2.40	34.4	1.50
7.70	7.69	21.3	1.02	0.03	21.3	4.79	3	121	0.47	0.47	44.8	33.5	4.89	4	2.64	34.2	0.00	34.2	4	0.00	1	37.21	0.56	274.0	535.1	540		292	6.95	11.2	1.5	1.49	2.39	34.4	1.49
7.90	7.81	21.4	1.08	0.03	21.4	5.07	3	122	0.47	0.47	44.3	33.6	5.18	4	2.66	34.4	0.00	34.4	4	0.00	1	38.29	0.56	274.0	543.6	559		293	6.98	11.2	1.4	1.50	2.40	34.4	1.50
8.00	7.95	22.0	1.11	0.05	22.0	5.04	3	122	0.48	0.48	44.7	34.6	5.15	4	2.65	35.3	0.00	35.3	4	0.00	1	38.06	0.56	274.0	549.4	572		301	7.17	11.5	1.4	1.54	2.47	34.5	1.54
8.20	8.10	22.3	1.07	0.05	22.3	4.82	3	122	0.49	0.49	44.4	35.0	4.93	4	2.64	35.8	0.00	35.8	4	0.00	1	37.44	0.56	274.0	548.8	570		305	7.26	11.7	1.4	1.56	2.50	34.6	1.56
8.30	8.22	22.5	1.10	0.04	22.5	4.91	3	122	0.50	0.50	44.2	35.3	5.02	4	2.65	35.9	0.00	35.9	4	0.00	1	37.83	0.56	274.0	553.8	582		308	7.33	11.8	1.4	1.57	2.52	34.6	1.57
8.40	8.34	21.8	1.14	0.04	21.8	5.22	3	122	0.51	0.51	42.3	34.3	5.34	4	2.68	34.7	0.00	34.7	4	0.00	1	39.52	0.57	274.0	557.1	589		299	7.11	11.4	1.3	1.52	2.45	34.5	1.52
8.50	8.47	21.7	1.15	0.05	21.7	5.29	3	122	0.51	0.51	41.3	34.0	5.42	4	2.69	34.2	0.00	34.2	4	0.00	1	40.11	0.57	274.0	559.1	594		297	7.06	11.3	1.3	1.51	2.43	34.5	1.51
8.70	8.60	21.3	1.12	0.05	21.3	5.27	3	122	0.52	0.52	39.9	33.4	5.40	4	2.70	33.3	0.00	33.3	4	0.00	1	40.60	0.57	274.0	557.0	588		291	6.93	11.1	1.3	1.48	2.39	34.4	1.48
8.80	8.74	20.9	1.10	0.06	20.9	5.26	3	122	0.53	0.53	38.4	32.7	5.39	3	2.71	32.4	0.00	32.4	4	0.00	1	41.18	0.57	274.0	554.8	583		285	6.78	10.9	1.3	1.45	2.33	34.3	1.45
8.90	8.88	19.9	1.05	0.05	19.9	5.28	3	121	0.54	0.54	36.1	31.2	5.42	3	2.73	30.7	0.00	30.7	4	0.00	1	42.31	0.57	274.0	549.1	569		272	6.47	10.4	1.3	1.39	2.23	34.0	1.39
9.10	9.01	18.9	1.01	0.05	18.9	5.32	3	121	0.55	0.55	33.7	29.5	5.48	3	2.76	29.0	0.00	29.0	4	0.00	1	43.64	0.58	274.0	542.6	553		257	6.13	9.8	1.3	1.31	2.11	33.8	1.31
9.20	9.14	17.8	0.96	0.02	17.8	5.40	3	120	0.55	0.55	31.1	27.6	5.57	3	2.79	27.1	0.00	27.1	4	0.00	1	45.33	0.58	274.0	535.0	535		241	5.73	9.2	1.3	1.23	1.97	33.5	1.23

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Z_b (ft)	Z_m (ft)	q_c (tsf)	f_s (tsf)	u_2 (tsf)	q_t (tsf)	R_f	SBT	γ (pcf)	σ_{v0} (tsf)	σ_{v0}' (tsf)	Q_t	Q_{tn}	F_R	SBT_n	I_c	q_{c1N}	K_c	$Q_{tn,cs}$	$(SBT)_{Ic}$	B_q	$(SBT)_{Bq}$	F_C (%)	c	R	V_s (ft/s)	G_0 (tsf)	E' (tsf)	M (tsf)	σ_p' (tsf)	OCR	S_t	S_u (tsf)	S_u/σ_{v0}'	φ (°)	c' (tsf)
9.30	9.27	16.5	0.91	0.02	16.5	5.52	3	120	0.56	0.56	28.4	25.6	5.72	3	2.82	25.1	0.00	25.1	4	0.00	1	47.42	0.59	274.0	526.7	516		223	5.31	8.5	1.2	1.14	1.83	33.1	1.14
9.50	9.40	15.9	0.87	0.02	15.9	5.51	3	119	0.57	0.57	26.9	24.6	5.71	3	2.84	24.0	0.00	24.0	4	0.00	1	48.42	0.59	274.0	521.5	505		214	5.10	8.2	1.2	1.09	1.75	32.9	1.09
9.60	9.53	15.7	0.83	0.04	15.7	5.29	3	119	0.58	0.58	26.2	24.1	5.48	3	2.84	23.6	0.00	23.6	4	0.00	1	48.12	0.59	274.0	517.3	495		212	5.05	8.0	1.3	1.08	1.72	32.8	1.08
9.70	9.66	15.2	0.78	0.03	15.2	5.17	3	118	0.58	0.58	25.0	23.0	5.38	3	2.85	22.7	0.00	22.7	4	0.00	1	48.71	0.60	274.1	511.1	481		204	4.86	7.7	1.3	1.04	1.64	32.6	1.04
9.80	9.78	14.3	0.76	0.03	14.3	5.32	3	118	0.59	0.59	23.1	21.4	5.55	3	2.88	21.2	0.00	21.2	4	0.00	1	50.79	0.60	274.1	505.4	469		191	4.55	7.1	1.3	0.98	1.53	32.2	0.98
10.00	9.92	13.3	0.73	0.03	13.3	5.52	3	118	0.60	0.60	21.1	19.8	5.78	3	2.92	19.5	0.00	19.5	4	0.00	1	53.32	0.61	274.1	499.2	455		177	4.22	6.6	1.2	0.90	1.41	31.9	0.90
10.10	10.06	13.0	0.71	0.03	13.0	5.41	3	117	0.61	0.61	20.5	19.2	5.67	3	2.92	19.0	0.00	19.0	4	0.00	1	53.56	0.61	274.1	495.7	448		174	4.14	6.4	1.3	0.89	1.37	31.7	0.89
10.20	10.18	12.9	0.69	0.04	12.9	5.36	3	117	0.62	0.61	20.2	19.0	5.62	3	2.93	18.8	0.00	18.8	4	0.00	1	53.66	0.61	274.1	494.3	445		173	4.11	6.3	1.3	0.88	1.36	31.7	0.88
10.40	10.31	12.6	0.69	0.02	12.6	5.46	3	117	0.62	0.61	19.6	18.5	5.74	3	2.94	18.3	0.00	18.3	4	0.00	1	54.68	0.61	274.1	493.1	442		168	4.01	6.2	1.2	0.86	1.32	31.5	0.86
10.50	10.45	12.5	0.68	0.02	12.5	5.43	3	117	0.63	0.62	19.2	18.1	5.72	3	2.95	17.9	0.00	17.9	4	0.00	1	55.09	0.61	274.1	490.9	438		166	3.94	6.0	1.2	0.84	1.29	31.4	0.84
10.70	10.60	12.7	0.66	0.04	12.7	5.20	3	117	0.64	0.62	19.4	18.3	5.48	3	2.93	18.2	0.00	18.2	4	0.00	1	54.02	0.61	274.1	490.5	436		169	4.02	6.1	1.3	0.86	1.31	31.5	0.86
10.80	10.72	13.0	0.66	0.05	13.0	5.10	3	117	0.65	0.62	19.8	18.6	5.36	3	2.92	18.5	0.00	18.5	4	0.00	1	53.26	0.61	274.1	492.6	440		173	4.12	6.2	1.3	0.88	1.33	31.6	0.88
10.90	10.84	13.9	0.68	0.06	13.9	4.91	3	117	0.65	0.63	21.1	19.7	5.15	3	2.89	19.7	0.00	19.7	4	0.00	1	51.23	0.61	274.1	499.3	454		185	4.41	6.6	1.4	0.94	1.41	31.8	0.94
11.00	10.98	14.1	0.69	0.04	14.1	4.94	3	117	0.66	0.63	21.2	19.9	5.18	3	2.89	19.9	0.00	19.9	4	0.00	1	51.21	0.61	274.1	502.7	461		188	4.47	6.6	1.4	0.96	1.42	31.9	0.96
11.20	11.10	13.6	0.71	0.04	13.6	5.22	3	117	0.67	0.63	20.3	19.2	5.49	3	2.92	19.1	0.00	19.1	4	0.00	1	53.11	0.61	274.1	502.8	461		181	4.30	6.4	1.3	0.92	1.37	31.7	0.92
11.30	11.24	13.3	0.70	0.04	13.3	5.28	3	117	0.68	0.64	19.8	18.7	5.56	3	2.93	18.7	0.00	18.7	4	0.00	1	53.86	0.61	274.1	501.8	459		177	4.22	6.2	1.3	0.90	1.34	31.6	0.90
11.40	11.37	13.0	0.68	0.05	13.0	5.20	3	117	0.68	0.64	19.2	18.2	5.49	3	2.94	18.2	0.00	18.2	4	0.00	1	54.23	0.61	274.1	497.6	450		173	4.12	6.1	1.3	0.88	1.30	31.5	0.88
11.60	11.50	12.6	0.65	0.05	12.7	5.10	3	117	0.69	0.65	18.5	17.6	5.39	3	2.94	17.6	0.00	17.6	4	0.00	1	54.71	0.61	274.1	491.9	438		167	3.99	5.9	1.3	0.85	1.25	31.3	0.85
11.70	11.63	12.2	0.63	0.07	12.2	5.17	3	116	0.70	0.65	17.7	16.8	5.48	3	2.96	16.8	0.00	16.8	3	0.00	1	56.02	0.62	274.1	487.9	430		161	3.82	5.6	1.3	0.82	1.20	31.1	0.82
11.80	11.75	11.9	0.62	0.09	11.9	5.22	3	116	0.71	0.65	17.2	16.4	5.55	3	2.97	16.4	0.00	16.4	3	0.00	1	56.81	0.62	274.1	486.3	427		157	3.74	5.5	1.3	0.80	1.17	31.0	0.80
12.00	11.89	11.8	0.61	0.09	11.8	5.18	3	116	0.72	0.66	16.9	16.2	5.50	3	2.98	16.2	0.00	16.2	3	0.00	1	56.98	0.62	274.1	484.8	424		156	3.71	5.4	1.3	0.79	1.15	30.9	0.79
12.10	12.02	11.8	0.61	0.09	11.8	5.21	3	116	0.72	0.66	16.8	16.0	5.54	3	2.98	16.1	0.00	16.1	3	0.00	1	57.35	0.62	274.1	485.2	424		155	3.69	5.3	1.3	0.79	1.14	30.9	0.79
12.20	12.15	12.0	0.61	0.10	12.0	5.12	3	116	0.73	0.66	17.0	16.2	5.44	3	2.97	16.3	0.00	16.3	3	0.00	1	56.73	0.62	274.1	486.5	427		158	3.75	5.4	1.3	0.80	1.16	30.9	0.80
12.40	12.28	12.4	0.61	0.10	12.4	4.92	3	116	0.74	0.67	17.5	16.7	5.23	3	2.95	16.8	0.00	16.8	3	0.00	1	55.31	0.62	274.1	488.9	431		164	3.89	5.6	1.4	0.83	1.19	31.0	0.83
12.50	12.42	12.5	0.61	0.11	12.5	4.91	3	116	0.75	0.67	17.5	16.7	5.21	3	2.95	16.8	0.00	16.8	3	0.00	1	55.29	0.62	274.1	489.8	433		164	3.91	5.6	1.4	0.84	1.19	31.0	0.84
12.60	12.54	11.9	0.60	0.12	11.9	5.00	3	116	0.75	0.67	16.6	15.9	5.33	3	2.98	16.0	0.00	16.0	3	0.00	1	56.82	0.62	274.1	485.4	424		157	3.73	5.3	1.3	0.80	1.13	30.8	0.80
12.80	12.68	11.3	0.58	0.09	11.3	5.18	3	116	0.76	0.68	15.6	14.9	5.55	3	3.01	15.1	0.00	15.1	3	0.00	1	59.02	0.63	274.1	481.1	415		147	3.51	5.0	1.3	0.75	1.07	30.5	0.75
12.90	12.81	11.3	0.59	0.10	11.3	5.19	3	116	0.77	0.68	15.5	14.9	5.56	3	3.01	15.1	0.00	15.1	3	0.00	1	59.20	0.63	274.1	481.7	417		147	3.51	5.0	1.3	0.75	1.06	30.5	0.75
13.00	12.93	11.9	0.58	0.12	11.9	4.92	3	116	0.78	0.68	16.2	15.6	5.26	3	2.98	15.8	0.00	15.8	3	0.00	1	57.04	0.62	274.1	484.9	422		156	3.70	5.2	1.4	0.79	1.11	30.7	0.79
13.10	13.07	12.9	0.59	0.14	12.9	4.57	3	116	0.78	0.69	17.6	16.8	4.86	3	2.93	17.1	0.00	17.1	4	0.00	1	53.82	0.62	274.1	491.0	434		170	4.04	5.6	1.5	0.87	1.20	31.1	0.87
13.30	13.20	13.7	0.61	0.14	13.7	4.49	3	116	0.79	0.69	18.7	17.7	4.76	3	2.90	18.0	0.00	18.0	4	0.00	1	52.29	0.61	274.1	498.6	450		181	4.30	5.9	1.5	0.92	1.27	31.3	0.92
13.40	13.32	14.2	0.62	0.15	14.2	4.37	3	116	0.80	0.69	19.3	18.3	4.62	3	2.89	18.6	0.00	18.6	4	0.00	1	51.09	0.61	274.1	501.7	456		187	4.46	6.1	1.5	0.96	1.31	31.5	0.96
13.50	13.46	14.7	0.60	0.15	14.7	4.07	3	116	0.81	0.70	19.9	18.8	4.30	3	2.85	19.2	0.00	19.2	4	0.00	1	49.19	0.61	274.1	501.5	455		195	4.64	6.3	1.7	0.99	1.34	31.6	0.99
13.70	13.60	14.5	0.59	0.14	14.5	4.09	3	116	0.81	0.70	19.5	18.5	4.33	3	2.86	18.9	0.00	18.9	4	0.00	1	49.72	0.61	274.1	500.6	453		192	4.57	6.2	1.6	0.98	1.32	31.5	0.98
13.80	13.72	14.0	0.58	0.15	14.0	4.17	3	116	0.82	0.71	18.7	17.7	4.42	3	2.88	18.1	0.00	18.1	4	0.00	1	50.99	0.61	274.1	497.0	445		184	4.39	5.9	1.6	0.94	1.27	31.3	0.94
13.90	13.85	13.6	0.57	0.15	13.6	4.20	3	116	0.83	0.71	18.0	17.2	4.47	3	2.90	17.5	0.00	17.5	4	0.00	1	51.89	0.61	274.1	494.1	439		179	4.26	5.7	1.6	0.91	1.23	31.2	0.91
14.10	14.00	13.1	0.56	0.16	13.2	4.29	3	116	0.84	0.71	17.3	16.5	4.57	3	2.92	16.9	0.00	16.9	4	0.00	1	53.16	0.62	274.1	491.7	434		173	4.11	5.5	1.6	0.88	1.18	31.0	0.88
14.20	14.12	13.0	0.55	0.16	13.0	4.24	3	115	0.84	0.72	17.0	16.2	4.53	3	2.92	16.7	0.00	16.7	4	0.00	1	53.35	0.62	274.1	489.5	430		170	4.06	5.4	1.6	0.87	1.16	30.9	0.87
14.30	14.24	12.9	0.53	0.17	12.9	4.12	3	115	0.85	0.72	16.8	16.0	4.40	3	2.92	16.5	0.00	16.5	4	0.00	1	53.11	0.62	274.1	486.2	423		169	4.02	5.3	1.6	0.86	1.15	30.9	0.86
14.40	14.38	12.7	0.51	0.20	12.8	4.04	3	115	0.86	0.72	16.5	15.8	4.32	3	2.92	16.2	0.00	16.2	4	-0.01	1	53.15	0.62	274.1	483.4	417		167	3.97	5.3	1.6	0.85	1.13	30.8	0.85
14.60	14.50	12.5	0.48	0.21	12.6	3.81	3	114	0.87	0.73	16.1	15.4	4.08	3	2.91	15.9	0.00	15.9	4	-0.01	1	52.61	0.62	274.1	476.8	404		164	3.90	5.1	1.7	0.84	1.10	30.7	0.84
14.70	14.64	12.3	0.46	0.22	12.3	3.78	3	114	0.87	0.73	15.7	15.0	4.06	3	2.92	15.5	0.00	15.5	4	-0.01	1	53.19	0.62	274.1	473.4	397		160	3.81	5.0	1.7	0.82	1.07	30.5	0.82
14.80	14.77	12.0	0.45	0.23	12.0	3.78	3	114	0.88	0.73	15.2	14.6	4.07	3	2.93	15.1	0.00	15.1	4	-0.01	1	53.92	0.62	274.1	470.5	391		156	3.71	4.9	1.7	0.79	1.04	30.4	0.79
15.00	14.91	11.8	0.45	0.23	11.9	3.80	3	114	0.89	0.74	14.9	14.3	4.10	3	2.94	14.8	0.00	14.8	4	-0.01	1	54.42	0.63	274.1	469.7	390		154	3.66	4.8	1.7	0.78	1.02	30.3	0.78
15.10	15.04	11.3	0.45	0.24	11.4	3.98	3	114	0.90	0.74	14.2	13.7	4.31	3	2.97	14.2	0.00	14.2	3	-0.01	1	56.41	0.63	274.1	468.1	387		143	3.49	4.6	1.6	0.75	0.98	30.1	0.75
15.20	15.17	10.7	0.45	0.24	10.7	4.20	3	113	0.90	0.74	13.2	12.8	4.57	3	3.01	13.3	0.00	13.3	3	-0.01	1	59.01	0.63	274.2	464.8	381		126	3.28	4.3	1.6	0.70	0.92	29.8	0.70
15.40	15.30	10.6	0.43	0.26	10.6	4.05	3	113	0.91	0.75	13.0	12.6	4.41	3	3.00	13.2	0.00	13.2	3	-0.01	1	58.71	0.63	274.2	461.0	373		123	3.24	4.2	1.6	0.70	0.90	29.7	0.70
15.50	15.43	10.4	0.42	0.26	10.5	4.03	3	113	0.92	0.75	12.7	12.3	4.40	3	3.01	12.9	0.00	12.9	3	-0.01	1	59.26	0.64	274.2	458.7	369		118	3.18	4.1	1.6	0.68	0.88	29.6	0.68
15.60	15.56	10.3	0.42	0.27	10.4	4.11	3	113	0.93	0.75	12.5	12.2	4.50	3	3.02	12.7	0.00	12.7	3	-0.01	1	60.01	0.64	274.2	459.3	370		115	3.14	4.1	1.6	0.67	0.87	29.5	0.67
15.80	15.69	10.4	0.42	0.28	10.5	4.08	3	113	0.93	0.76	12.6	12.2	4.46	3	3.02	12.8	0.00	12.8	3	-0.01	1	59.72	0.64	274.2	460.4	372		116	3.17	4.1	1.6	0.68	0.87	29.6	0.68
15.90	15.82	10.9	0.43	0.29	10.9	3.91	3	113	0.94	0.76	13.2	12.8	4.26	3	2.99	13.3	0.00	13.3	3	-0.01	1	57.88	0.63	274.2	463.8	378		128	3.33	4.3	1.7	0.71	0.91	29.8	0.71
16.00	15.96	11.5	0.43	0.29	11.6	3.76	3	113	0.95	0.76	13.9	13.5	4.08	3	2.96	14.1	0.00	14.1	3	-0.01	1	55.83	0.63	274.1	468.8	387		143	3.54	4.5	1.7	0.76	0.96	30.0	0.76
16.20	16.10	11.1	0.42	0.29	11.2	3.79	3	113	0.96	0.77	13.3	12.9	4.13	3	2.98	13.5	0.00	13.5	3	-0.01	1	57.00	0.63	274.2	465.2	380		132	3.41	4.3	1.7	0.73	0.92	29.8	0.73
16.30	16.22	10.7	0.40	0.29	10.7	3.71	3	112	0.96	0.77	12.7	12.3	4.05	3	2.99	13.0	0.00	13.0	3	-0.01	1	57.77	0.64	274.2	458.3	367		121	3.26	4.1	1.8	0.70	0.88	29.6	0.70
16.40	16.34	10.2	0.36	0.29	10.3	3.54	3	112	0.97	0.77	12.0	11.7	3.89	3	3.00	12.3	0.00	12.3	3	-0.01	1	58.33	0.64	274.2	449.0	350		109	3.10	3.9	1.8	0.66	0.83	29.3	0.66
16.50	16.47	9.7	0.33	0.29	9.7	3.44	4	111	0.98	0.78	11.3	11.0	3.80	3	3.01	11.7	0.00	11.7	3	-0.01	1	59.47	0.64	274.2	440.2	334		96	2.92	3.7	1.9	0.62	0.78	29.0	0.62
16.70	16.60	9.2	0.30	0.30	9.2	3.30	4	110	0.98	0.78	10.6	10.3	3.67	3	3.03	11.0	0.00	11.0	3	-0.01	1	60.33	0.65	274.2	431.1	318		85	2.75	3.4	1.9	0.59	0.74	28.8	0.59
16.80	16.74	8.9	0.28	0.30	9.0	3.20	4	110	0.99	0.78	10.2	9.9	3.58	3	3.03	10.7	0.00	10.7	3	-0.01	1	60.86	0.65	274.2	425.3	308		79	2.65	3.3	2.0	0.57	0.71	28.6	0.57
16.90	16.87	8.7	0.28	0.30	8.7	3.19	4	109	1.00	0.79	9.8	9.6	3.58	3	3.05	10.3	0.00	10.3	3	-0.01	1	61.74	0.65	274.2	422.0	302		74	2.57	3.2	2.0	0.55	0.69	28.4	0.55
17.10	17.00	8.7	0.25	0.30	8.7	2.89	4	109	1.01	0.79	9.8	9.5	3.25	3	3.03	10.3	0.00	10.3	3	-0.01	1	60.19	0.65	274.2	415.9	292		73	2.57	3.2	2.2	0.55	0.68	28.4	0.55
17.20	17.14	8.1	0.25	0.31	8.2	3.10	4	108	1.01	0.79	9.0	8.9	3.52	3	3.07	9.6	0.00	9.6	3	-0.01	1	63.48	0.66	274.2	413.0	287		63	2.39	3.0	2.0	0.51	0.63	28.0	0.51
17.30	17.27	7.5	0.24	0.31	7.6	3.25	3	108	1.02	0.79	8.3	8.1	3.73	3	3.12	8.9	0.00	8.9	3	-0.01	1	66.85	0.66	274.2	407.4	279		53	2.19	2.7	1.9	0.47	0.58	27.6	0.47
17.50	17.40	7.4	0.25	0.31	7.4	3.35	3	108	1.03	0.80	8.0	7.9	3.86	3	3.14	8.7	0.00	8.7	3	-0.01	1	68.19	0.67	274.2	407.3	279		51	2.14	2.6	1.8	0.46	0.57	27.5	0.46
17.60	17.54	7.5	0.26	0.32	7.5	3.42	3	108	1.04	0.80	8.1	8.0	3.94	3	3.14	8.8	0.00	8.8	3	-0.01	1	68.28	0.67	274.2	410.6	284		52	2.17	2.7	1.8	0.46	0.57	27.5	0.46
17.70	17.66	9.3	0.25	0.22	9.3	2.68	4	109	1.04	0.80	10.3	10.0	3.01	3	2.99	10.9	0.00	10.9	3	0.00	1	57.59	0.65	274.2	420.9	299		83	2.76	3.3	2.4	0.59	0.72	28.6	0.59
17.90	17.79	8.7	0.23	0.09	8.7	2.65	4	108	1.05	0.81	9.5	9.2	3.01	3	3.02	10.1	0.00	10.1	3	0.02	1	59.67	0.66	274.2	411.8	284		70	2.54	3.1	2.4	0.54	0.66	28.2	0.54
18.00	17.92	13.7	0.19	0.10	13.7	2.22	5	111	1.06	0.81	15.7	14.9	1.50	4	2.67	16.0	0.00	16.0	4	0.01	1	38.84	0.62	274.1	425.7	313		177	4.22	5.0	4.7	0.90	1.06	30.5	0.90
18.10	18.05	8.0	0.20	0.10	8.0	2.50	4	107	1.06	0.81	8.5	8.4	2.87	3	3.04	9.3	0.00	9.3	3	0.02	1	61.48	0.66	274.2	399.1	264		58	2.31	2.8	2.5	0.49	0.60	27.7	0.49
18.20	18.18	7.8	0.25	0.11	7.8	3.23	3	108	1.07	0.82	8.3	8.2	3.74	3	3.12	9.1	0.00	9.1	3	0.02	1	66.74	0.66	274.2	413.6	288		56	2.26	2.7	1.9	0.48	0.59	27.6	0.48

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Z_b (ft)	Z_m (ft)	q_c (tsf)	f_s (tsf)	u_2 (tsf)	q_t (tsf)	R_f	SBT	γ (pcf)	σ_{v0} (tsf)	σ_{v0}' (tsf)	Q_t	Q_{tn}	F_R	SBT_n	I_c	q_{c1N}	K_c	$Q_{tn,cs}$	$(SBT)_{Ic}$	B_q	$(SBT)_{Bq}$	F_C (%)	c	R	V_s (ft/s)	G_0 (tsf)	E' (tsf)	M (tsf)	σ_p' (tsf)	OCR	S_t	S_u (tsf)	S_u/σ_{v0}'	φ (°)	c' (tsf)
18.40	18.31	9.0	0.35	0.12	9.1	3.84	3	111	1.08	0.82	9.8	9.6	4.35	3	3.10	10.4	0.00	10.4	3	0.02	1	65.45	0.65	274.2	443.9	340		77	2.66	3.2	1.6	0.57	0.69	28.4	0.57
18.50	18.45	11.2	0.33	0.12	11.3	2.99	4	111	1.09	0.82	12.4	12.0	3.29	3	2.94	12.9	0.00	12.9	4	0.01	1	54.84	0.64	274.2	454.1	357		122	3.39	4.0	2.2	0.73	0.86	29.5	0.73
18.60	18.58	11.7	0.32	0.10	11.8	2.76	5	111	1.09	0.83	12.9	12.6	3.04	3	2.91	13.5	0.00	13.5	4	0.02	1	52.54	0.63	274.2	454.6	357		134	3.56	4.2	2.3	0.76	0.90	29.7	0.76
18.80	18.72	11.7	0.31	0.10	11.7	2.65	5	111	1.10	0.83	12.8	12.4	2.92	3	2.90	13.4	0.00	13.4	4	0.02	1	52.13	0.63	274.2	451.5	351		132	3.54	4.1	2.4	0.76	0.89	29.6	0.76
18.90	18.85	16.8	0.29	0.11	16.8	1.77	6	111	1.11	0.83	18.9	18.0	1.83	4	2.65	19.1	0.00	19.1	4	0.01	1	37.73	0.61	274.1	467.3	378		220	5.23	6.0	3.9	1.12	1.28	31.4	1.12
19.00	18.98	26.5	0.23	-0.25	26.4	0.87	7	111	1.11	0.83	30.3	28.3	0.89	5	2.34	29.7	2.05	83.5	5	0.02	1	23.85	0.57	274.0	487.0	407	350	354	0.83	0.8				33.6	0.01
19.20	19.11	34.6	0.17	-0.50	34.5	0.50	7	109	1.12	0.84	39.8	36.7	0.51	5	2.12	38.4	1.48	84.0	5	0.02	1	16.45	0.55	273.9	488.3	404	352	703	0.94	1.1				34.8	0.02
19.30	19.24	40.8	0.17	-0.50	40.7	0.41	8	109	1.13	0.84	47.1	43.1	0.42	6	2.02	44.9	1.00	82.3	6	0.02	1	5.00	0.54	273.9	498.8	422	367	734	1.14	1.4				35.6	0.02
19.50	19.38	36.3	0.17	-0.50	36.2	0.49	7	109	1.14	0.84	41.5	38.3	0.50	5	2.10	40.0	1.00	84.2	5	0.02	1	5.00	0.55	273.9	493.1	413	359	717	0.99	1.2				35.0	0.02
19.60	19.50	27.0	0.20	-0.49	26.9	0.78	7	110	1.14	0.85	30.4	28.5	0.79	5	2.31	30.0	1.96	82.9	5	0.03	1	22.75	0.57	274.0	482.5	398	343	361	0.85	0.8				33.6	0.01
19.70	19.63	14.5	0.26	-0.49	14.4	1.83	5	110	1.15	0.85	15.6	15.0	1.99	4	2.74	16.3	0.00	16.3	4	0.06	1	42.42	0.62	274.1	454.5	354		186	4.42	5.0	3.6	0.95	1.07	30.5	0.95
19.80	19.77	9.8	0.17	-0.49	9.7	1.76	5	106	1.16	0.85	10.0	9.7	2.04	4	2.90	10.9	0.00	10.9	4	0.09	1	52.31	0.65	274.2	405.7	271		83	2.84	3.2	3.5	0.61	0.70	28.5	0.61
20.00	19.90	7.8	0.10	-0.48	7.7	1.31	5	101	1.16	0.86	7.6	7.5	1.56	4	2.95	8.7	0.00	8.7	4	0.12	1	55.01	0.67	274.3	364.6	209		49	2.18	2.5	4.6	0.47	0.53	27.2	0.47
20.10	20.03	6.4	0.11	-0.47	6.3	1.75	4	102	1.17	0.86	6.0	5.9	2.17	3	3.11	7.1	0.00	7.1	3	0.15	1	66.03	0.69	274.3	358.9	203		31	1.72	2.0	3.3	0.37	0.42	26.1	0.37
20.20	20.17	6.3	0.11	-0.46	6.2	1.83	4	102	1.18	0.86	5.8	5.8	2.29	3	3.13	7.0	0.00	7.0	3	0.16	1	67.81	0.69	274.3	359.1	204		29	1.67	1.9	3.1	0.36	0.41	26.0	0.36
20.30	20.30	6.4	0.11	-0.45	6.3	1.70	4	101	1.19	0.86	6.0	5.9	2.12	3	3.11	7.1	0.00	7.1	3	0.15	1	65.92	0.69	274.3	358.3	202		30	1.72	2.0	3.3	0.37	0.42	26.1	0.37
20.50	20.42	7.1	0.11	-0.44	7.0	1.54	5	102	1.19	0.87	6.7	6.6	1.87	3	3.03	7.8	0.00	7.8	3	0.13	1	60.81	0.68	274.3	364.0	209		39	1.94	2.2	3.8	0.42	0.47	26.6	0.42
20.60	20.56	7.3	0.12	-0.42	7.3	1.57	5	102	1.20	0.87	7.0	6.9	1.90	3	3.02	8.1	0.00	8.1	3	0.12	1	60.06	0.67	274.3	368.9	216		42	2.03	2.3	3.7	0.43	0.49	26.8	0.43
20.70	20.68	7.8	0.12	-0.41	7.8	1.48	5	102	1.20	0.87	7.5	7.4	1.76	3	2.98	8.6	0.00	8.6	3	0.11	1	57.12	0.67	274.3	372.7	221		48	2.19	2.5	4.0	0.47	0.53	27.2	0.47
20.90	20.81	8.5	0.13	-0.41	8.4	1.47	5	103	1.21	0.87	8.3	8.1	1.73	4	2.94	9.3	0.00	9.3	4	0.10	1	54.52	0.66	274.2	381.7	233		59	2.41	2.7	4.1	0.52	0.58	27.6	0.52
21.00	20.94	8.9	0.13	-0.40	8.8	1.51	5	104	1.22	0.88	8.7	8.5	1.77	4	2.93	9.7	0.00	9.7	4	0.10	1	53.63	0.66	274.2	388.3	243		65	2.54	2.8	4.0	0.54	0.61	27.8	0.54
21.10	21.08	9.9	0.16	-0.39	9.8	1.64	5	105	1.23	0.88	9.8	9.5	1.89	4	2.90	10.8	0.00	10.8	4	0.09	1	51.85	0.65	274.2	404.8	269		82	2.86	3.2	3.8	0.61	0.68	28.4	0.61
21.30	21.21	11.3	0.21	-0.39	11.2	1.83	5	108	1.23	0.88	11.3	11.0	2.07	4	2.86	12.3	0.00	12.3	4	0.07	1	49.71	0.64	274.2	427.3	305		110	3.33	3.7	3.4	0.71	0.79	29.1	0.71
21.40	21.35	12.7	0.26	-0.38	12.6	2.07	5	110	1.24	0.89	12.9	12.5	2.31	4	2.84	13.8	0.00	13.8	4	0.06	1	48.52	0.63	274.1	450.5	346		143	3.80	4.2	3.1	0.81	0.90	29.7	0.81
21.50	21.47	14.0	0.29	-0.38	13.9	2.08	5	111	1.25	0.89	14.3	13.9	2.29	4	2.80	15.2	0.00	15.2	4	0.06	1	46.17	0.62	274.1	463.9	370		177	4.23	4.6	3.1	0.91	0.99	30.2	0.91
21.70	21.59	15.4	0.32	-0.37	15.3	2.06	5	112	1.25	0.89	15.8	15.3	2.25	4	2.76	16.6	0.00	16.6	4	0.05	1	43.91	0.62	274.1	475.9	393		197	4.68	5.1	3.2	1.00	1.10	30.6	1.00
21.80	21.74	15.9	0.36	-0.36	15.8	2.24	5	113	1.26	0.90	16.3	15.9	2.45	4	2.77	17.1	0.00	17.1	4	0.05	1	44.42	0.61	274.1	487.6	416		204	4.86	5.3	2.9	1.04	1.13	30.8	1.04
21.90	21.87	16.5	0.40	-0.36	16.5	2.39	5	113	1.27	0.90	16.9	16.5	2.60	4	2.77	17.8	0.00	17.8	4	0.05	1	44.56	0.61	274.1	498.7	439		213	5.07	5.5	2.7	1.09	1.18	31.0	1.09
22.10	22.00	17.5	0.44	-0.35	17.4	2.51	5	114	1.28	0.90	17.9	17.5	2.71	4	2.77	18.7	0.00	18.7	4	0.04	1	44.02	0.61	274.1	511.1	464		226	5.39	5.8	2.6	1.15	1.25	31.3	1.15
22.20	22.12	17.7	0.49	-0.35	17.6	2.75	5	115	1.28	0.90	18.1	17.6	2.98	4	2.79	18.9	0.00	18.9	4	0.04	1	45.22	0.61	274.1	521.0	486		229	5.45	5.9	2.4	1.17	1.26	31.3	1.17
22.30	22.24	17.0	0.49	-0.35	17.0	2.90	5	115	1.29	0.91	17.3	16.9	3.15	4	2.82	18.1	0.00	18.1	4	0.05	1	47.01	0.61	274.1	520.1	484		219	5.23	5.6	2.3	1.12	1.21	31.1	1.12
22.50	22.38	16.4	0.52	-0.34	16.3	3.15	5	115	1.30	0.91	16.5	16.2	3.43	3	2.86	17.4	0.00	17.4	4	0.05	1	49.31	0.61	274.1	522.0	489		210	5.01	5.4	2.1	1.07	1.15	30.9	1.07
22.60	22.52	16.2	0.57	-0.34	16.1	3.50	4	116	1.31	0.92	16.2	15.9	3.82	3	2.89	17.1	0.00	17.1	4	0.05	1	51.43	0.61	274.1	530.0	507		208	4.94	5.3	1.9	1.06	1.14	30.8	1.06
22.70	22.66	15.8	0.54	-0.34	15.7	3.44	4	116	1.31	0.92	15.7	15.4	3.76	3	2.90	16.7	0.00	16.7	4	0.05	1	51.84	0.62	274.1	525.1	496		202	4.81	5.1	1.9	1.03	1.10	30.7	1.03
22.80	22.78	15.8	0.55	-0.34	15.8	3.45	4	116	1.32	0.92	15.6	15.4	3.78	3	2.90	16.6	0.00	16.6	4	0.05	1	52.00	0.62	274.1	525.9	498		202	4.81	5.1	1.9	1.03	1.10	30.7	1.03
23.00	22.91	17.2	0.52	-0.33	17.1	3.06	5	116	1.33	0.93	17.0	16.7	3.32	4	2.84	18.0	0.00	18.0	4	0.05	1	48.10	0.61	274.1	528.1	501		221	5.26	5.6	2.1	1.13	1.19	31.1	1.13
23.10	23.04	18.7	0.49	-0.33	18.6	2.62	5	115	1.34	0.93	18.6	18.2	2.83	4	2.76	19.5	0.00	19.5	4	0.04	1	43.91	0.60	274.1	527.8	499		242	5.76	6.1	2.5	1.23	1.30	31.5	1.23
23.20	23.18	18.8	0.49	-0.32	18.7	2.61	5	115	1.34	0.93	18.6	18.2	2.82	4	2.76	19.6	0.00	19.6	4	0.04	1	43.87	0.60	274.1	528.9	502		243	5.79	6.1	2.5	1.24	1.30	31.5	1.24
23.40	23.30	19.5	0.50	-0.32	19.4	2.59	5	116	1.35	0.94	19.3	18.9	2.79	4	2.75	20.2	0.00	20.2	4	0.04	1	43.00	0.60	274.1	533.8	512		253	6.02	6.3	2.5	1.29	1.35	31.6	1.29
23.50	23.44	20.2	0.50	-0.31	20.2	2.49	5	116	1.36	0.94	20.0	19.6	2.68	4	2.72	21.0	0.00	21.0	4	0.04	1	41.71	0.60	274.1	536.9	519		263	6.27	6.5	2.7	1.34	1.40	31.8	1.34
23.60	23.57	19.4	0.49	-0.31	19.3	2.52	5	115	1.37	0.94	19.0	18.6	2.72	4	2.75	20.0	0.00	20.0	4	0.04	1	42.93	0.60	274.1	531.7	507		251	5.98	6.2	2.6	1.28	1.33	31.6	1.28
23.80	23.70	17.8	0.50	-0.30	17.7	2.79	5	115	1.37	0.95	17.3	17.0	3.03	4	2.81	18.3	0.00	18.3	4	0.04	1	46.37	0.61	274.1	528.0	500		229	5.46	5.7	2.3	1.17	1.21	31.1	1.17
23.90	23.84	17.3	0.50	-0.30	17.3	2.91	5	115	1.38	0.95	16.7	16.4	3.17	4	2.83	17.8	0.00	17.8	4	0.05	1	47.80	0.61	274.1	528.0	500		222	5.29	5.5	2.2	1.13	1.17	31.0	1.13
24.00	23.98	16.9	0.48	-0.30	16.8	2.83	5	115	1.39	0.95	16.2	15.9	3.09	4	2.83	17.3	0.00	17.3	4	0.05	1	48.04	0.61	274.1	521.9	487		216	5.14	5.3	2.3	1.10	1.14	30.8	1.10
24.20	24.10	15.7	0.44	-0.29	15.7	2.82	5	114	1.40	0.96	14.9	14.7	3.10	4	2.86	16.1	0.00	16.1	4	0.05	1	49.81	0.62	274.1	511.1	464		200	4.75	4.9	2.3	1.02	1.05	30.4	1.02
24.30	24.23	14.9	0.44	-0.29	14.8	2.93	5	114	1.40	0.96	14.0	13.8	3.25	3	2.90	15.2	0.00	15.2	4	0.05	1	51.91	0.62	274.1	506.8	455		185	4.48	4.6	2.2	0.96	0.99	30.1	0.96
24.40	24.36	14.5	0.38	-0.29	14.4	2.61	5	113	1.41	0.96	13.5	13.4	2.90	4	2.88	14.7	0.00	14.7	4	0.06	1	50.86	0.63	274.1	494.0	428		174	4.34	4.5	2.4	0.93	0.95	30.0	0.93
24.60	24.49	11.9	0.31	-0.29	11.9	2.62	5	111	1.42	0.97	10.8	10.7	2.94	3	2.96	12.1	0.00	12.1	3	0.07	1	56.14	0.64	274.2	466.1	374		112	3.48	3.6	2.4	0.75	0.76	28.9	0.75
24.70	24.61	5.7	0.28	-0.35	5.6	4.97	3	108	1.43	0.97	4.3	4.3	6.63	3	3.49	5.8	0.00	5.8	3	0.19	1	98.16	0.71	274.4	412.9	287		18	1.40	1.4	1.1	0.30	0.31	24.6	0.30
24.80	24.74	4.8	0.25	-0.57	4.7	5.13	3	107	1.43	0.97	3.4	3.4	7.50	2	3.61	4.9	0.00	4.9	2	0.31	1	100.00	0.72	274.4	394.5	258		11	1.10	1.1	0.9	0.24	0.24	23.4	0.24
24.90	24.88	5.1	0.23	-0.55	5.0	4.62	3	106	1.44	0.98	3.6	3.6	6.63	3	3.56	5.1	0.00	5.1	3	0.29	1	100.00	0.72	274.4	393.7	256		13	1.17	1.2	1.1	0.25	0.26	23.7	0.25
25.10	25.01	5.9	0.24	-0.56	5.8	4.05	3	107	1.45	0.98	4.4	4.4	5.46	3	3.44	5.9	0.00	5.9	3	0.24	1	92.90	0.70	274.4	404.9	272		19	1.45	1.5	1.3	0.31	0.32	24.7	0.31
25.20	25.15	8.8	0.26	-0.56	8.7	2.99	4	109	1.45	0.98	7.3	7.3	3.60	3	3.15	8.8	0.00	8.8	3	0.14	1	69.37	0.67	274.3	436.0	321		53	2.40	2.4	2.0	0.51	0.52	27.1	0.51
25.30	25.27	18.1	0.31	-0.55	18.0	2.50	5	115	1.46	0.99	16.7	16.5	1.90	4	2.70	18.0	0.00	18.0	4	0.06	1	40.47	0.61	274.1	495.5	437		231	5.50	5.5	3.7	1.18	1.18	31.0	1.18
25.50	25.41	23.5	0.42	-0.54	23.4	2.83	5	118	1.47	0.99	22.1	21.8	1.91	4	2.60	23.3	0.00	23.3	4	0.05	1	35.43	0.59	274.0	536.2	528		307	7.30	7.3	3.7	1.56	1.56	32.3	1.56
25.60	25.55	13.8	0.46	-0.53	13.7	3.32	4	114	1.48	0.99	12.3	12.2	3.74	3	2.98	13.7	0.00	13.7	3	0.08	1	57.18	0.63	274.1	508.7	459		149	4.07	4.1	1.9	0.87	0.87	29.6	0.87
25.70	25.67	11.8	0.43	-0.54	11.7	3.61	4	113	1.48	1.00	10.3	10.2	4.16	3	3.07	11.7	0.00	11.7	3	0.10	1	63.31	0.64	274.2	493.3	428		105	3.41	3.4	1.7	0.73	0.73	28.7	0.73
25.90	25.80	11.0	0.41	-0.54	10.9	3.77	3	113	1.49	1.00	9.4	9.4	4.39	3	3.12	10.8	0.00	10.8	3	0.11	1	66.58	0.65	274.2	486.0	414		88	3.13	3.1	1.6	0.67	0.67	28.3	0.67
26.00	25.94	10.8	0.43	-0.54	10.7	3.99	3	113	1.50	1.00	9.2	9.2	4.68	3	3.14	10.6	0.00	10.6	3	0.11	1	68.42	0.65	274.2	489.0	420		84	3.07	3.1	1.5	0.66	0.65	28.2	0.66
26.10	26.07	13.1	0.49	-0.53	13.0	3.74	4	114	1.51	1.01	11.5	11.4	4.25	3	3.04	12.9	0.00	12.9	3	0.09	1	61.08	0.64	274.2	513.0	468		132	3.84	3.8	1.7	0.82	0.82	29.2	0.82
26.30	26.20	14.0	0.46	-0.53	13.9	3.31	4	114	1.51	1.01	12.3	12.2	3.73	3	2.98	13.7	0.00	13.7	3	0.08	1	57.14	0.63	274.1	512.7	467		152	4.13	4.1	1.9	0.89	0.87	29.6	0.89
26.40	26.33	20.9	0.41	-0.52	20.8	2.86	5	117	1.52	1.01	19.0	18.9	2.15	4	2.69	20.4	0.00	20.4	4	0.05	1	39.68	0.60	274.1	530.3	512		270	6.42	6.3	3.3	1.38	1.35	31.6	1.38
26.50	26.46	20.6	0.38	-0.52	20.5	2.92	5	117	1.53	1.02	18.7	18.5	2.00	4	2.67	20.1	0.00	20.1	4	0.05	1	39.07	0.60	274.1	522.8	498		266	6.33	6.2	3.5	1.36	1.32	31.6	1.36
26.60	26.59	12.4	0.38	-0.51	12.3	3.04	4	112	1.54	1.02	10.5	10.5	3.50	3	3.02	12.0	0.00	12.0	3	0.10	1	59.64	0.64	274.2	488.3	416		113	3.58	3.5	2.0	0.77	0.75	28.8	0.77
26.80	26.72	12.3	0.35	-0.51	12.2	2.89	4	112	1.54	1.02	10.4	10.4	3.33	3	3.01	11.9	0.00	11.9	3	0.10	1	59.11	0.64	274.2	483.6	407		110	3.54	3.5	2.1	0.76	0.74	28.8	0.76
26.90	26.85	12.7	0.38	-0.51	12.6	3.01	4	113	1.55	1.03	10.8	10.7	3.45	3	3.01	12.3	0.00	12.3	3	0.09	1	58.86	0.64	274.2	492.1	423		119	3.69	3.6	2.1	0.79	0.77	28.9	0.79
27.00	26.98	19.7	0.40	-0.50	19.6	2.89	5	117	1.56	1.03	17.5	17.5	2.22	4	2.72	19.0	0.00	19.0	4	0.06	1	41.61	0.61	274.1	525.4	500		253	6.02	5.8	3.2	1.29	1.25	31.3	1.29
27.20	27.12	21.9	0.41	-0.50	21.8	2.95	5	118	1.57	1.03	19.6	19.5	2.02	4	2.66	21.1	0.00	21.1	4	0.05	1	38.28	0.60	274.1	534.6	524		284	6.75	6.5	3.5	1.45	1.39	31.8	1.45
27.30	27.25	13.3	0.43	-0.50	13.2	3.23	4	114	1.58	1.04	11.3	11.2	3.69	3	3.01	12.8	0.00	12.8	3	0.09	1	58.98	0.64	274.2	506.1	452		131	3.89	3.7	1.9	0.83	0.80	29.2	0.83

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Z_b (ft)	Z_m (ft)	q_c (tsf)	f_s (tsf)	u_2 (tsf)	q_t (tsf)	R_f	SBT	γ (pcf)	σ_{v0} (tsf)	σ_{v0}' (tsf)	Q_t	Q_{tn}	F_R	SBT_n	I_c	q_{c1N}	K_c	$Q_{tn,cs}$	$(SBT)_{Ic}$	B_q	$(SBT)_{Bq}$	F_C (%)	c	R	V_s (ft/s)	G_0 (tsf)	E' (tsf)	M (tsf)	σ_p' (tsf)	OCR	S_t	S_u (tsf)	S_u/σ_{v0}'	φ (°)	c' (tsf)
27.40	27.37	13.5	0.44	-0.50	13.4	3.27	4	114	1.58	1.04	11.3	11.3	3.74	3	3.01	12.9	0.00	12.9	3	0.09	1	59.00	0.64	274.2	509.1	458		134	3.93	3.8	1.9	0.84	0.81	29.2	0.84
27.60	27.51	13.3	0.43	-0.50	13.2	3.20	4	113	1.59	1.04	11.2	11.1	3.66	3	3.01	12.7	0.00	12.7	3	0.09	1	59.01	0.64	274.2	505.8	451		130	3.88	3.7	1.9	0.83	0.80	29.1	0.83
27.70	27.63	12.2	0.40	-0.50	12.1	3.25	4	113	1.60	1.05	10.1	10.0	3.76	3	3.05	11.6	0.00	11.6	3	0.10	1	62.05	0.64	274.2	494.4	428		106	3.51	3.3	1.9	0.75	0.72	28.6	0.75
27.80	27.76	10.9	0.35	-0.50	10.8	3.20	4	111	1.60	1.05	8.8	8.8	3.79	3	3.10	10.4	0.00	10.4	3	0.11	1	65.59	0.65	274.2	477.2	394		81	3.07	2.9	1.9	0.66	0.63	28.0	0.66
28.00	27.90	9.9	0.31	-0.50	9.8	3.18	4	110	1.61	1.05	7.8	7.8	3.83	3	3.15	9.4	0.00	9.4	3	0.13	1	68.84	0.66	274.2	463.8	369		64	2.74	2.6	1.9	0.59	0.56	27.4	0.59
28.10	28.02	9.6	0.30	-0.50	9.5	3.18	4	110	1.62	1.06	7.5	7.5	3.87	3	3.16	9.1	0.00	9.1	3	0.13	1	70.25	0.67	274.2	459.3	361		59	2.63	2.5	1.8	0.56	0.53	27.2	0.56
28.20	28.15	10.1	0.30	-0.50	10.0	2.97	4	110	1.63	1.06	7.9	7.9	3.57	3	3.12	9.5	0.00	9.5	3	0.13	1	67.26	0.66	274.2	461.4	364		66	2.79	2.6	2.0	0.60	0.56	27.5	0.60
28.40	28.30	10.8	0.31	-0.50	10.8	2.83	4	110	1.63	1.06	8.6	8.6	3.36	3	3.08	10.2	0.00	10.2	3	0.12	1	63.99	0.66	274.2	468.5	377		78	3.04	2.9	2.1	0.65	0.61	27.9	0.65
28.50	28.43	11.6	0.34	-0.50	11.5	2.91	4	111	1.64	1.07	9.3	9.3	3.41	3	3.06	10.9	0.00	10.9	3	0.11	1	62.27	0.65	274.2	480.5	400		92	3.30	3.1	2.1	0.71	0.66	28.2	0.71
28.60	28.55	11.6	0.34	-0.50	11.5	2.93	4	111	1.65	1.07	9.3	9.3	3.44	3	3.06	10.9	0.00	10.9	3	0.11	1	62.52	0.65	274.2	481.4	401		92	3.30	3.1	2.1	0.71	0.66	28.2	0.71
28.80	28.69	12.3	0.42	-0.50	12.2	3.40	4	113	1.66	1.07	9.9	9.9	3.95	3	3.07	11.5	0.00	11.5	3	0.10	1	63.44	0.65	274.2	501.6	442		104	3.52	3.3	1.8	0.75	0.70	28.5	0.75
28.90	28.82	12.7	0.66	-0.49	12.6	5.17	3	117	1.66	1.08	10.2	10.2	6.02	3	3.17	11.8	0.00	11.8	3	0.10	1	70.85	0.64	274.2	544.2	537		111	3.65	3.4	1.2	0.78	0.73	28.7	0.78
29.00	28.94	18.9	0.96	-0.49	18.8	5.11	3	121	1.67	1.08	15.9	15.9	5.63	3	3.01	17.6	0.00	17.6	3	0.06	1	58.87	0.61	274.1	612.4	702		240	5.71	5.3	1.3	1.22	1.13	30.8	1.22
29.10	29.08	28.3	1.12	-0.49	28.2	3.97	4	123	1.68	1.08	24.5	24.5	4.24	4	2.78	26.2	0.00	26.2	4	0.04	1	45.01	0.58	274.0	661.6	834		371	8.83	8.2	1.7	1.89	1.75	32.9	1.89
29.30	29.22	32.7	1.48	-0.49	32.7	4.52	4	125	1.69	1.09	28.5	28.6	4.77	3	2.77	30.3	0.00	30.3	4	0.04	1	44.23	0.57	274.0	709.0	978		434	10.32	9.5	1.5	2.21	2.04	33.6	2.21
29.40	29.36	33.6	1.29	-0.49	33.5	3.86	5	124	1.70	1.09	29.1	29.3	4.05	4	2.71	31.0	0.00	31.0	4	0.03	1	41.18	0.57	274.0	693.7	929		445	10.60	9.8	1.8	2.27	2.09	33.7	2.27
29.50	29.47	29.8	1.03	-0.49	29.7	3.47	5	122	1.70	1.10	25.6	25.7	3.68	4	2.73	27.5	0.00	27.5	4	0.04	1	41.94	0.58	274.0	657.1	820		392	9.34	8.6	1.9	2.00	1.84	33.1	2.00
29.70	29.60	24.0	0.75	-0.49	23.9	3.13	5	119	1.71	1.10	20.2	20.3	3.38	4	2.78	22.0	0.00	22.0	4	0.05	1	45.00	0.59	274.0	606.0	680		311	7.41	6.8	2.1	1.59	1.45	32.0	1.59
29.80	29.74	20.2	0.63	-0.49	20.1	3.13	5	117	1.72	1.10	16.7	16.8	3.43	4	2.85	18.5	0.00	18.5	4	0.06	1	49.09	0.61	274.1	576.0	606		257	6.13	5.6	2.1	1.31	1.20	31.1	1.31
29.90	29.87	19.1	0.56	-0.48	19.0	2.94	5	116	1.73	1.11	15.6	15.7	3.25	4	2.86	17.4	0.00	17.4	4	0.06	1	49.60	0.61	274.1	561.0	570		242	5.75	5.2	2.2	1.23	1.12	30.8	1.23
30.10	30.00	17.6	0.47	-0.48	17.5	2.66	5	115	1.73	1.11	14.2	14.3	2.97	4	2.87	16.0	0.00	16.0	4	0.07	1	50.11	0.62	274.1	539.5	520		221	5.26	4.8	2.4	1.13	1.02	30.3	1.13
30.20	30.13	16.2	0.44	-0.48	16.1	2.73	5	114	1.74	1.11	12.9	12.9	3.07	3	2.91	14.7	0.00	14.7	4	0.08	1	52.84	0.63	274.1	528.4	496		185	4.78	4.3	2.3	1.02	0.92	29.8	1.02
30.30	30.26	15.2	0.40	-0.48	15.1	2.60	5	113	1.75	1.12	11.9	12.0	2.96	3	2.93	13.7	0.00	13.7	4	0.08	1	53.91	0.63	274.1	515.5	468		160	4.45	4.0	2.4	0.95	0.86	29.5	0.95
30.40	30.38	14.4	0.36	-0.48	14.4	2.52	5	112	1.76	1.12	11.3	11.3	2.88	3	2.94	13.1	0.00	13.1	4	0.09	1	54.84	0.63	274.2	505.7	447		143	4.20	3.8	2.5	0.90	0.81	29.2	0.90
30.60	30.52	13.6	0.34	-0.47	13.5	2.53	5	112	1.76	1.12	10.5	10.5	2.92	3	2.97	12.3	0.00	12.3	3	0.09	1	56.74	0.64	274.2	497.7	431		124	3.92	3.5	2.4	0.84	0.75	28.9	0.84
30.70	30.65	12.8	0.33	-0.47	12.7	2.57	5	111	1.77	1.13	9.7	9.8	3.01	3	3.01	11.5	0.00	11.5	3	0.10	1	59.03	0.64	274.2	490.2	416		107	3.65	3.3	2.4	0.78	0.70	28.5	0.78
30.80	30.78	12.2	0.32	-0.47	12.1	2.62	5	111	1.78	1.13	9.1	9.2	3.09	3	3.04	10.9	0.00	10.9	3	0.11	1	61.02	0.65	274.2	484.6	405		94	3.43	3.1	2.3	0.74	0.65	28.2	0.74
31.00	30.91	12.1	0.31	-0.47	12.0	2.57	5	111	1.79	1.13	9.0	9.0	3.03	3	3.04	10.8	0.00	10.8	3	0.11	1	61.05	0.65	274.2	482.2	400		92	3.40	3.0	2.3	0.73	0.65	28.1	0.73
31.10	31.04	12.1	0.30	-0.47	12.0	2.51	5	111	1.79	1.14	9.0	9.1	2.97	3	3.03	10.8	0.00	10.8	3	0.11	1	60.64	0.65	274.2	481.4	399		93	3.41	3.0	2.4	0.73	0.65	28.1	0.73
31.20	31.17	12.3	0.30	-0.47	12.2	2.45	5	111	1.80	1.14	9.1	9.2	2.89	3	3.02	10.9	0.00	10.9	3	0.11	1	59.96	0.65	274.2	481.6	399		95	3.46	3.1	2.5	0.74	0.65	28.2	0.74
31.40	31.30	11.7	0.30	-0.47	11.6	2.55	5	110	1.81	1.14	8.6	8.7	3.04	3	3.05	10.4	0.00	10.4	3	0.12	1	62.18	0.65	274.2	478.5	393		85	3.28	2.9	2.3	0.70	0.62	27.9	0.70
31.50	31.45	11.7	0.31	-0.46	11.6	2.69	5	111	1.82	1.15	8.5	8.6	3.22	3	3.07	10.4	0.00	10.4	3	0.12	1	63.38	0.65	274.2	482.2	401		84	3.26	2.9	2.2	0.70	0.61	27.9	0.70
31.60	31.58	11.6	0.31	-0.46	11.5	2.65	5	111	1.82	1.15	8.5	8.5	3.17	3	3.07	10.3	0.00	10.3	3	0.12	1	63.33	0.65	274.2	480.7	397		83	3.24	2.8	2.2	0.69	0.61	27.8	0.69
31.80	31.70	11.6	0.30	-0.46	11.5	2.60	5	111	1.83	1.15	8.4	8.4	3.12	3	3.07	10.2	0.00	10.2	3	0.12	1	63.25	0.65	274.2	479.1	394		82	3.22	2.8	2.3	0.69	0.60	27.8	0.69
31.90	31.84	11.7	0.29	-0.46	11.6	2.51	5	110	1.84	1.16	8.4	8.5	3.00	3	3.06	10.3	0.00	10.3	3	0.12	1	62.46	0.65	274.2	477.9	391		83	3.25	2.8	2.4	0.70	0.61	27.8	0.70
32.00	31.98	12.1	0.28	-0.46	12.0	2.30	5	110	1.84	1.16	8.7	8.8	2.74	3	3.02	10.6	0.00	10.6	3	0.11	1	60.04	0.65	274.2	476.4	388		89	3.38	2.9	2.6	0.72	0.63	28.0	0.72
32.20	32.09	12.2	0.26	-0.46	12.1	2.18	5	110	1.85	1.16	8.8	8.9	2.59	3	3.01	10.7	0.00	10.7	3	0.11	1	58.97	0.65	274.2	473.8	383		91	3.41	3.0	2.7	0.73	0.63	28.0	0.73
32.30	32.22	12.4	0.26	-0.46	12.3	2.13	5	110	1.86	1.16	9.0	9.1	2.53	3	2.99	10.9	0.00	10.9	3	0.11	1	58.10	0.65	274.2	475.3	385		95	3.49	3.0	2.8	0.75	0.65	28.1	0.75
32.40	32.37	12.5	0.26	-0.46	12.4	2.09	5	110	1.87	1.17	9.0	9.1	2.48	3	2.99	10.9	0.00	10.9	3	0.11	1	57.75	0.65	274.2	474.7	384		95	3.50	3.0	2.9	0.75	0.65	28.1	0.75
32.50	32.50	12.9	0.26	-0.46	12.9	2.04	5	110	1.87	1.17	9.4	9.5	2.40	3	2.97	11.3	0.00	11.3	3	0.11	1	56.26	0.65	274.2	478.6	391		104	3.66	3.2	3.0	0.78	0.68	28.3	0.78
32.70	32.62	13.3	0.28	-0.45	13.2	2.07	5	110	1.88	1.17	9.6	9.8	2.43	3	2.96	11.6	0.00	11.6	3	0.10	1	55.78	0.64	274.2	483.6	400		110	3.77	3.3	2.9	0.81	0.70	28.5	0.81
32.80	32.75	13.5	0.28	-0.45	13.4	2.10	5	110	1.89	1.18	9.8	9.9	2.46	3	2.96	11.8	0.00	11.8	3	0.10	1	55.53	0.64	274.2	487.4	408		115	3.85	3.3	2.9	0.83	0.71	28.6	0.83
32.90	32.88	14.0	0.28	-0.45	13.9	2.03	5	111	1.89	1.18	10.2	10.3	2.37	3	2.93	12.2	0.00	12.2	4	0.10	1	54.05	0.64	274.2	490.2	413		124	4.01	3.4	3.0	0.86	0.74	28.8	0.86
33.10	33.01	14.1	0.30	-0.45	14.0	2.11	5	111	1.90	1.18	10.3	10.4	2.45	3	2.94	12.2	0.00	12.2	4	0.10	1	54.46	0.64	274.2	494.1	421		126	4.04	3.5	2.9	0.87	0.74	28.8	0.87
33.20	33.14	14.8	0.31	-0.45	14.8	2.09	5	111	1.91	1.19	10.8	11.0	2.42	3	2.92	12.8	0.00	12.8	4	0.09	1	52.99	0.64	274.2	501.1	435		141	4.28	3.7	2.9	0.92	0.78	29.0	0.92
33.30	33.27	16.3	0.31	-0.45	16.3	1.93	6	112	1.92	1.19	12.1	12.3	2.19	4	2.85	14.1	0.00	14.1	4	0.08	1	49.15	0.63	274.1	509.1	450		176	4.78	4.1	3.2	1.02	0.88	29.6	1.02
33.50	33.41	15.5	0.32	-0.45	15.4	2.09	5	112	1.92	1.19	11.3	11.5	2.40	4	2.90	13.3	0.00	13.3	4	0.09	1	51.93	0.63	274.2	507.6	448		154	4.49	3.8	3.0	0.96	0.82	29.2	0.96
33.60	33.55	15.1	0.32	-0.44	15.0	2.14	5	112	1.93	1.20	11.0	11.1	2.47	3	2.92	13.0	0.00	13.0	4	0.09	1	53.02	0.63	274.2	506.6	446		146	4.37	3.7	2.9	0.94	0.79	29.1	0.94
33.70	33.67	14.8	0.32	-0.44	14.7	2.19	5	112	1.94	1.20	10.6	10.8	2.53	3	2.93	12.7	0.00	12.7	4	0.09	1	54.09	0.64	274.2	505.1	443		138	4.26	3.6	2.8	0.91	0.77	29.0	0.91
33.90	33.80	14.8	0.32	-0.44	14.7	2.14	5	111	1.95	1.20	10.6	10.8	2.48	3	2.93	12.6	0.00	12.6	4	0.09	1	53.83	0.64	274.2	503.7	440		137	4.25	3.6	2.9	0.91	0.77	29.0	0.91
34.00	33.93	15.5	0.32	-0.44	15.4	2.07	5	112	1.95	1.21	11.2	11.4	2.38	4	2.90	13.2	0.00	13.2	4	0.09	1	52.02	0.63	274.2	508.5	449		153	4.50	3.8	3.0	0.96	0.81	29.2	0.96
34.10	34.07	15.6	0.33	-0.44	15.5	2.09	5	112	1.96	1.21	11.2	11.4	2.41	4	2.90	13.3	0.00	13.3	4	0.09	1	52.10	0.63	274.2	510.5	453		155	4.52	3.8	3.0	0.97	0.81	29.2	0.97
34.30	34.20	15.3	0.32	-0.44	15.2	2.12	5	112	1.97	1.21	10.9	11.1	2.45	3	2.92	13.0	0.00	13.0	4	0.09	1	53.01	0.63	274.2	508.6	449		147	4.41	3.7	2.9	0.94	0.79	29.1	0.94
34.40	34.32	15.2	0.32	-0.44	15.1	2.14	5	112	1.97	1.22	10.8	11.0	2.47	3	2.92	12.9	0.00	12.9	4	0.09	1	53.41	0.64	274.2	508.7	449		144	4.38	3.7	2.9	0.94	0.78	29.0	0.94
34.50	34.45	14.9	0.32	-0.44	14.8	2.17	5	112	1.98	1.22	10.5	10.7	2.51	3	2.94	12.6	0.00	12.6	4	0.09	1	54.24	0.64	274.2	506.9	446		137	4.27	3.6	2.8	0.92	0.76	28.9	0.92
34.70	34.58	15.3	0.32	-0.44	15.2	2.10	5	112	1.99	1.22	10.8	11.0	2.43	3	2.92	12.9	0.00	12.9	4	0.09	1	53.03	0.63	274.2	509.3	450		146	4.42	3.7	2.9	0.95	0.79	29.1	0.95
34.80	34.72	17.4	0.34	-0.44	17.3	1.97	6	113	2.00	1.23	12.5	12.7	2.24	4	2.85	14.6	0.00	14.6	4	0.08	1	48.68	0.62	274.1	523.1	478		195	5.10	4.2	3.2	1.09	0.91	29.8	1.09
34.90	34.85	18.5	0.37	-0.43	18.4	1.97	6	113	2.00	1.23	13.4	13.6	2.23	4	2.82	15.5	0.00	15.5	4	0.07	1	47.17	0.62	274.1	533.0	499		224	5.47	4.5	3.2	1.17	0.97	30.1	1.17
35.10	34.98	19.4	0.40	-0.43	19.3	2.09	6	114	2.01	1.23	14.0	14.3	2.34	4	2.82	16.2	0.00	16.2	4	0.07	1	46.88	0.62	274.1	545.2	527		242	5.76	4.8	3.0	1.23	1.02	30.3	1.23
35.20	35.12	19.5	0.43	-0.43	19.4	2.20	6	114	2.02	1.24	14.1	14.4	2.47	4	2.83	16.3	0.00	16.3	4	0.07	1	47.56	0.62	274.1	550.7	540		243	5.79	4.8	2.9	1.24	1.03	30.3	1.24
35.30	35.26	19.5	0.44	-0.43	19.4	2.25	5	115	2.03	1.24	14.0	14.4	2.52	4	2.83	16.3	0.00	16.3	4	0.07	1	47.89	0.62	274.1	553.3	545		244	5.80	4.8	2.8	1.24	1.03	30.3	1.24
35.40	35.38	19.9	0.43	-0.43	19.9	2.14	6	115	2.03	1.24	14.4	14.7	2.40	4	2.81	16.6	0.00	16.6	4	0.07	1	46.70	0.61	274.1	552.9	544		250	5.94	4.9	3.0	1.27	1.05	30.4	1.27
35.60	35.52	19.4	0.45	-0.42	19.3	2.31	5	115	2.04	1.25	13.8	14.2	2.59	4	2.84	16.1	0.00	16.1	4	0.07	1	48.63	0.62	274.1	555.1	550		241	5.75	4.7	2.7	1.23	1.01	30.3	1.23
35.70	35.66	19.0	0.44	-0.42	18.9	2.35	5	115	2.05	1.25	13.5	13.8	2.64	4	2.86	15.7	0.00	15.7	4	0.07	1	49.47	0.62	274.1	553.5	546		232	5.61	4.6	2.7	1.20	0.98	30.1	1.20
35.80	35.77	19.4	0.42	-0.42	19.3	2.15	6	114	2.06	1.25	13.8	14.1	2.42	4	2.83	16.0	0.00	16.0	4	0.07	1	47.71	0.62	274.1	549.5	536		241	5.74	4.7	2.9	1.23	1.01	30.2	1.23
36.00	35.90	18.6	0.41	-0.42	18.5	2.19	5	114	2.06	1.26	13.1	13.4	2.47	4	2.85	15.4	0.00	15.4	4	0.07	1	49.10	0.62	274.1	544.8	526		220	5.48	4.5	2.9	1.17	0.96	30.0	1.17
36.10	36.05	17.7	0.43	-0.42	17.6	2.45	5	114	2.07	1.26	12.3	12.6	2.78	3	2.90	14.6	0.00	14.6	4	0.08	1	52.26	0.63	274.1	546.6	531		195	5.17	4.2	2.5	1.11	0.90	29.7	1.11
36.20	36.18	17.4	0.47	-0.42	17.3	2.68	5	115	2.08	1.26	12.1	12.3	3.05	3	2.93	14.3	0.00	14.3	4	0.08	1	54.16	0.63	274.1	552.5	545		188	5.09	4.1	2.3	1.09	0.88	29.6	1.09
36.40	36.30	17.0	0.49	-0.41	16.9	2.88	5	115	2.09	1.27	11.7	12.0	3.30	3	2.96	14.0	0.00	14.0	3	0.08	1	56.06	0.63	274.1	555.6	552		178	4.95	4.0	2.2	1.06	0.85	29.5	1.06

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Z_b (ft)	Z_m (ft)	q_c (tsf)	f_s (tsf)	u_2 (tsf)	q_t (tsf)	R_f	SBT	γ (pcf)	σ_{v0} (tsf)	σ_{v0}' (tsf)	Q_t	Q_{tn}	F_R	SBT_n	I_c	q_{c1N}	K_c	$Q_{tn,cs}$	$(SBT)_{Ic}$	B_q	$(SBT)_{Bq}$	F_C (%)	c	R	V_s (ft/s)	G_0 (tsf)	E' (tsf)	M (tsf)	σ_p' (tsf)	OCR	S_t	S_u (tsf)	S_u/σ_{v0}'	φ (°)	c' (tsf)
36.50	36.42	18.6	0.54	-0.41	18.5	2.90	5	116	2.09	1.27	12.9	13.2	3.28	3	2.93	15.2	0.00	15.2	4	0.08	1	53.78	0.62	274.1	570.9	588		217	5.47	4.4	2.2	1.17	0.94	29.9	1.17
36.60	36.55	21.4	0.61	-0.41	21.3	2.85	5	117	2.10	1.27	15.1	15.4	3.17	4	2.87	17.5	0.00	17.5	4	0.06	1	49.91	0.61	274.1	593.4	642		269	6.39	5.1	2.2	1.37	1.10	30.7	1.37
36.80	36.70	21.9	0.65	-0.40	21.8	2.95	5	118	2.11	1.28	15.4	15.8	3.28	3	2.87	17.9	0.00	17.9	4	0.06	1	49.95	0.61	274.1	601.7	663		276	6.57	5.3	2.2	1.41	1.13	30.8	1.41
36.90	36.83	23.3	0.71	-0.40	23.2	3.05	5	119	2.12	1.28	16.5	16.9	3.37	4	2.85	19.0	0.00	19.0	4	0.06	1	49.02	0.60	274.1	616.7	702		296	7.04	5.6	2.1	1.51	1.21	31.1	1.51
37.00	36.95	24.8	0.76	-0.40	24.7	3.06	5	119	2.12	1.28	17.6	18.1	3.35	4	2.83	20.1	0.00	20.1	4	0.05	1	47.59	0.60	274.1	628.6	733		317	7.54	6.0	2.1	1.62	1.29	31.4	1.62
37.20	37.09	23.3	0.80	-0.40	23.2	3.44	5	120	2.13	1.29	16.3	16.8	3.80	3	2.89	18.8	0.00	18.8	4	0.06	1	51.17	0.60	274.1	629.7	737		295	7.02	5.6	1.9	1.50	1.20	31.1	1.50
37.30	37.22	21.4	0.84	-0.40	21.3	3.93	4	120	2.14	1.29	14.9	15.2	4.38	3	2.96	17.3	0.00	17.3	3	0.07	1	55.67	0.61	274.1	628.9	736		269	6.40	5.1	1.6	1.37	1.08	30.6	1.37
37.40	37.34	19.9	0.82	-0.40	19.8	4.10	4	119	2.15	1.30	13.6	13.9	4.62	3	3.00	16.0	0.00	16.0	3	0.07	1	58.53	0.62	274.1	620.3	714		246	5.89	4.6	1.5	1.26	0.99	30.2	1.26
37.50	37.47	18.5	0.75	-0.40	18.5	4.06	4	119	2.16	1.30	12.6	12.8	4.61	3	3.03	14.9	0.00	14.9	3	0.08	1	60.44	0.62	274.1	606.4	678		208	5.44	4.3	1.5	1.16	0.91	29.8	1.16
37.70	37.62	17.5	0.69	-0.40	17.4	3.95	4	118	2.16	1.30	11.7	11.9	4.53	3	3.05	14.0	0.00	14.0	3	0.08	1	61.77	0.63	274.1	593.2	644		181	5.08	4.0	1.6	1.09	0.85	29.4	1.09
37.80	37.76	17.4	0.66	-0.40	17.3	3.82	4	117	2.17	1.31	11.6	11.8	4.38	3	3.04	13.9	0.00	13.9	3	0.08	1	61.42	0.63	274.1	589.2	634		178	5.04	3.9	1.6	1.08	0.84	29.4	1.08
37.90	37.88	16.8	0.65	-0.40	16.8	3.89	4	117	2.18	1.31	11.1	11.3	4.49	3	3.06	13.5	0.00	13.5	3	0.09	1	62.79	0.63	274.1	585.8	625		165	4.86	3.8	1.6	1.04	0.81	29.2	1.04
38.10	38.02	16.1	0.60	-0.40	16.0	3.76	4	117	2.19	1.31	10.5	10.7	4.38	3	3.08	12.8	0.00	12.8	3	0.09	1	63.75	0.64	274.2	574.7	598		147	4.60	3.6	1.6	0.99	0.76	28.9	0.99
38.20	38.15	15.1	0.58	-0.40	15.0	3.85	4	116	2.20	1.32	9.7	9.8	4.53	3	3.11	12.0	0.00	12.0	3	0.10	1	66.29	0.64	274.2	566.4	579		126	4.27	3.3	1.6	0.92	0.70	28.5	0.92
38.30	38.26	14.2	0.55	-0.40	14.1	3.90	4	116	2.20	1.32	9.0	9.1	4.64	3	3.14	11.3	0.00	11.3	3	0.11	1	68.67	0.65	274.2	557.8	559		109	3.98	3.0	1.5	0.85	0.65	28.2	0.85
38.50	38.40	13.6	0.51	-0.40	13.6	3.72	4	115	2.21	1.32	8.6	8.7	4.47	3	3.15	10.8	0.00	10.8	3	0.11	1	69.32	0.65	274.2	546.8	534		98	3.78	2.9	1.6	0.81	0.62	27.9	0.81
38.60	38.54	14.4	0.47	-0.40	14.3	3.26	4	114	2.22	1.33	9.1	9.3	3.87	3	3.09	11.4	0.00	11.4	3	0.11	1	64.99	0.65	274.2	544.5	527		112	4.04	3.1	1.8	0.87	0.66	28.2	0.87
38.70	38.67	14.3	0.45	-0.39	14.2	3.13	4	114	2.23	1.33	9.0	9.1	3.73	3	3.09	11.3	0.00	11.3	3	0.11	1	64.70	0.65	274.2	539.6	516		109	3.99	3.0	1.9	0.85	0.65	28.2	0.85
38.90	38.79	14.1	0.44	-0.39	14.0	3.13	4	114	2.23	1.33	8.8	8.9	3.74	3	3.10	11.1	0.00	11.1	3	0.11	1	65.26	0.65	274.2	537.7	511		105	3.92	3.0	1.9	0.84	0.64	28.1	0.84
39.00	38.92	14.1	0.43	-0.39	14.0	3.04	4	114	2.24	1.34	8.8	8.9	3.64	3	3.09	11.1	0.00	11.1	3	0.11	1	64.84	0.65	274.2	535.5	506		105	3.92	3.0	2.0	0.84	0.64	28.1	0.84
39.10	39.05	14.1	0.41	-0.39	14.0	2.89	5	113	2.25	1.34	8.8	8.9	3.46	3	3.08	11.1	0.00	11.1	3	0.11	1	63.91	0.65	274.2	532.0	498		105	3.93	3.0	2.1	0.84	0.64	28.1	0.84
39.30	39.19	14.6	0.41	-0.39	14.5	2.82	5	113	2.26	1.34	9.1	9.3	3.35	3	3.06	11.4	0.00	11.4	3	0.11	1	62.41	0.64	274.2	535.6	506		114	4.09	3.1	2.1	0.88	0.66	28.2	0.88
39.40	39.32	15.6	0.44	-0.39	15.5	2.84	5	114	2.26	1.35	9.8	10.0	3.34	3	3.03	12.2	0.00	12.2	3	0.10	1	60.51	0.64	274.2	546.7	530		133	4.41	3.3	2.1	0.95	0.72	28.6	0.95
39.50	39.44	17.3	0.52	-0.39	17.2	2.99	5	116	2.27	1.35	11.1	11.3	3.46	3	3.00	13.5	0.00	13.5	3	0.09	1	58.20	0.63	274.1	569.2	582		170	4.99	3.8	2.1	1.07	0.81	29.2	1.07
39.70	39.58	21.4	0.59	-0.39	21.4	2.74	5	117	2.28	1.35	14.1	14.6	3.08	3	2.88	16.7	0.00	16.7	4	0.07	1	50.85	0.61	274.1	598.0	651		267	6.37	4.9	2.3	1.36	1.04	30.4	1.36
39.80	39.72	23.3	0.62	-0.38	23.2	2.67	5	118	2.29	1.36	15.4	16.0	2.97	4	2.84	18.1	0.00	18.1	4	0.06	1	48.43	0.61	274.1	610.5	682		293	6.98	5.3	2.4	1.50	1.14	30.8	1.50
39.90	39.84	22.7	0.59	-0.38	22.6	2.61	5	117	2.29	1.36	14.9	15.4	2.91	4	2.85	17.6	0.00	17.6	4	0.06	1	48.79	0.61	274.1	603.4	664		284	6.77	5.1	2.4	1.45	1.10	30.7	1.45
40.00	39.96	21.0	0.59	-0.38	20.9	2.80	5	117	2.30	1.37	13.6	14.1	3.15	3	2.90	16.2	0.00	16.2	4	0.07	1	51.99	0.62	274.1	596.9	648		260	6.20	4.7	2.3	1.33	1.00	30.2	1.33
40.20	40.10	20.0	0.58	-0.38	19.9	2.90	5	117	2.31	1.37	12.9	13.2	3.29	3	2.93	15.4	0.00	15.4	4	0.07	1	53.93	0.62	274.1	592.4	637		233	5.87	4.4	2.2	1.26	0.95	29.9	1.26
40.30	40.23	19.5	0.57	-0.38	19.4	2.95	5	117	2.32	1.37	12.4	12.8	3.36	3	2.95	15.0	0.00	15.0	4	0.08	1	55.05	0.62	274.1	589.7	630		218	5.69	4.3	2.1	1.22	0.91	29.8	1.22
40.40	40.36	19.9	0.59	-0.38	19.8	2.96	5	117	2.32	1.38	12.7	13.1	3.37	3	2.94	15.3	0.00	15.3	4	0.08	1	54.60	0.62	274.1	594.4	642		229	5.83	4.4	2.1	1.25	0.94	29.9	1.25
40.60	40.50	20.7	0.63	-0.37	20.7	3.05	5	118	2.33	1.38	13.3	13.7	3.45	3	2.93	15.9	0.00	15.9	4	0.07	1	54.02	0.62	274.1	604.7	668		251	6.11	4.6	2.1	1.31	0.98	30.1	1.31
40.70	40.62	22.2	0.67	-0.37	22.1	3.04	5	118	2.34	1.38	14.3	14.8	3.41	3	2.90	17.0	0.00	17.0	4	0.07	1	52.21	0.61	274.1	616.9	699		277	6.59	4.9	2.1	1.41	1.05	30.5	1.41
40.80	40.75	22.2	0.67	-0.37	22.1	3.04	5	118	2.35	1.39	14.3	14.7	3.41	3	2.90	17.0	0.00	17.0	4	0.07	1	52.29	0.61	274.1	617.4	700		277	6.59	4.9	2.1	1.41	1.05	30.4	1.41
40.90	40.88	20.9	0.63	-0.37	20.8	3.02	5	118	2.35	1.39	13.3	13.7	3.41	3	2.93	15.9	0.00	15.9	4	0.07	1	53.88	0.62	274.1	605.8	670		252	6.15	4.6	2.1	1.32	0.98	30.1	1.32
41.10	41.02	19.9	0.60	-0.37	19.8	3.02	5	117	2.36	1.39	12.5	12.9	3.44	3	2.95	15.2	0.00	15.2	3	0.08	1	55.30	0.62	274.1	597.9	650		225	5.82	4.3	2.1	1.25	0.92	29.8	1.25
41.20	41.16	19.9	0.60	-0.37	19.9	3.00	5	117	2.37	1.40	12.5	12.9	3.41	3	2.95	15.2	0.00	15.2	4	0.08	1	55.17	0.62	274.1	597.8	650		226	5.84	4.3	2.1	1.25	0.92	29.8	1.25
41.30	41.28	20.0	0.61	-0.37	19.9	3.07	5	117	2.38	1.40	12.5	12.9	3.50	3	2.96	15.2	0.00	15.2	3	0.08	1	55.59	0.62	274.1	600.9	658		226	5.85	4.3	2.0	1.25	0.92	29.8	1.25
41.50	41.41	19.1	0.67	-0.36	19.0	3.55	4	118	2.39	1.41	11.8	12.1	4.06	3	3.01	14.4	0.00	14.4	3	0.08	1	59.48	0.63	274.1	606.8	675		201	5.54	4.0	1.8	1.19	0.87	29.5	1.19
41.60	41.55	39.5	0.74	-0.36	39.4	3.00	6	124	2.39	1.41	26.3	28.2	1.99	5	2.48	30.3	2.66	87.9	5	0.04	1	29.83	0.57	274.0	646.1	804	616	519	1.41	0.6				33.6	0.02
41.70	41.67	25.2	0.99	-0.36	25.2	3.92	4	121	2.40	1.41	16.1	16.7	4.35	3	2.93	19.0	0.00	19.0	4	0.06	1	53.76	0.60	274.1	672.5	854		319	7.59	5.6	1.6	1.63	1.19	31.0	1.63
41.90	41.80	50.8	1.08	-0.36	50.7	3.41	5	127	2.41	1.42	34.1	36.8	2.24	5	2.43	39.4	2.42	98.3	5	0.03	1	27.58	0.55	273.9	713.9	1,009	752	677	1.42	0.9				34.8	0.02
42.00	41.93	31.6	1.32	-0.35	31.6	4.19	4	124	2.42	1.42	20.5	21.3	4.54	3	2.86	23.9	0.00	23.9	4	0.05	1	49.56	0.58	274.0	728.7	1,025		408	9.71	7.1	1.6	2.08	1.52	32.2	2.08
42.20	42.07	56.5	1.48	-0.35	56.4	3.80	5	129	2.43	1.43	37.9	40.9	2.73	5	2.45	43.8	2.52	104.6	5	0.02	1	28.59	0.54	273.9	766.0	1,179	865	756	1.43	1.0				35.3	0.03
42.30	42.21	64.7	1.25	-0.35	64.6	3.15	6	129	2.44	1.43	43.5	47.6	2.01	5	2.32	50.5	2.00	109.3	5	0.02	1	23.28	0.53	273.9	756.3	1,149	843	871	1.67	1.2				36.0	0.03
42.40	42.33	31.6	1.30	-0.35	31.6	4.14	4	124	2.44	1.43	20.3	21.1	4.48	3	2.86	23.7	0.00	23.7	4	0.05	1	49.52	0.59	274.0	728.1	1,023		408	9.70	7.0	1.6	2.08	1.51	32.2	2.08
42.50	42.47	28.7	1.31	-0.35	28.7	4.55	4	124	2.45	1.44	18.2	18.9	4.98	3	2.93	21.4	0.00	21.4	4	0.05	1	53.59	0.59	274.0	720.4	999		367	8.74	6.3	1.4	1.87	1.35	31.6	1.87
42.70	42.60	27.4	1.28	-0.35	27.4	4.65	4	124	2.46	1.44	17.3	17.9	5.12	3	2.95	20.3	0.00	20.3	3	0.05	1	55.23	0.60	274.1	713.5	978		349	8.30	6.0	1.4	1.78	1.28	31.4	1.78
42.80	42.72	26.3	1.30	-0.35	26.3	4.96	3	124	2.47	1.45	16.4	16.9	5.49	3	2.99	19.5	0.00	19.5	3	0.06	1	57.58	0.60	274.1	713.1	977		333	7.93	5.6	1.3	1.70	1.21	31.1	1.70
42.90	42.85	24.5	1.25	-0.36	24.4	5.11	3	123	2.48	1.45	15.2	15.6	5.69	3	3.02	18.1	0.00	18.1	3	0.06	1	60.11	0.61	274.1	701.9	943		308	7.32	5.2	1.2	1.57	1.11	30.7	1.57
43.00	42.98	23.1	1.14	-0.36	23.0	4.96	3	122	2.48	1.45	14.1	14.5	5.57	3	3.04	17.0	0.00	17.0	3	0.07	1	61.32	0.61	274.1	685.7	894		287	6.84	4.8	1.3	1.47	1.03	30.4	1.47
43.20	43.12	23.1	1.09	-0.35	23.1	4.71	3	122	2.49	1.46	14.1	14.5	5.30	3	3.03	17.0	0.00	17.0	3	0.07	1	60.32	0.61	274.1	680.6	878		288	6.86	4.8	1.3	1.47	1.04	30.4	1.47
43.30	43.26	23.3	0.96	-0.35	23.2	4.14	4	121	2.50	1.46	14.2	14.6	4.65	3	2.99	17.1	0.00	17.1	3	0.07	1	57.77	0.61	274.1	667.0	837		290	6.91	4.9	1.5	1.48	1.04	30.4	1.48
43.40	43.38	22.6	0.85	-0.35	22.5	3.79	4	120	2.51	1.47	13.6	14.1	4.27	3	2.98	16.5	0.00	16.5	3	0.07	1	57.11	0.61	274.1	651.0	791		280	6.67	4.7	1.7	1.43	1.01	30.2	1.43
43.60	43.52	20.7	0.83	-0.35	20.7	3.99	4	120	2.52	1.47	12.3	12.7	4.56	3	3.03	15.1	0.00	15.1	3	0.08	1	60.60	0.62	274.1	640.7	763		230	6.05	4.2	1.6	1.30	0.91	29.7	1.30
43.70	43.65	19.8	0.79	-0.35	19.8	3.96	4	119	2.52	1.47	11.7	12.0	4.55	3	3.05	14.5	0.00	14.5	3	0.08	1	61.80	0.62	274.1	631.8	739		207	5.75	4.0	1.6	1.23	0.86	29.5	1.23
43.80	43.78	19.6	0.71	-0.35	19.5	3.64	4	118	2.53	1.48	11.5	11.8	4.20	3	3.03	14.2	0.00	14.2	3	0.08	1	60.81	0.63	274.1	620.6	708		200	5.65	3.9	1.7	1.21	0.84	29.4	1.21
44.00	43.91	18.7	0.66	-0.35	18.7	3.53	4	118	2.54	1.48	10.9	11.2	4.10	3	3.05	13.6	0.00	13.6	3	0.09	1	61.62	0.63	274.1	609.7	680		180	5.38	3.7	1.7	1.15	0.80	29.1	1.15
44.10	44.05	18.9	0.58	-0.35	18.8	3.08	5	117	2.55	1.48	11.0	11.3	3.57	3	3.01	13.7	0.00	13.7	3	0.09	1	59.03	0.63	274.1	597.8	648		184	5.42	3.8	2.0	1.16	0.81	29.2	1.16
44.20	44.18	19.6	0.58	-0.35	19.5	2.98	5	117	2.55	1.49	11.4	11.8	3.45	3	2.99	14.2	0.00	14.2	3	0.08	1	57.52	0.63	274.1	601.5	657		199	5.65	3.9	2.1	1.21	0.84	29.4	1.21
44.40	44.30	19.7	0.62	-0.35	19.7	3.14	5	117	2.56	1.49	11.5	11.9	3.62	3	3.00	14.3	0.00	14.3	3	0.08	1	58.18	0.63	274.1	608.6	675		203	5.71	4.0	2.0	1.22	0.85	29.4	1.22
44.50	44.44	20.4	0.60	-0.34	20.4	2.96	5	117	2.57	1.50	11.9	12.3	3.39	3	2.97	14.7	0.00	14.7	3	0.08	1	56.23	0.62	274.1	608.9	675		219	5.93	4.1	2.1	1.27	0.88	29.6	1.27
44.60	44.56	21.0	0.58	-0.34	21.0	2.77	5	117	2.58	1.50	12.3	12.7	3.17	3	2.94	15.1	0.00	15.1	4	0.08	1	54.42	0.62	274.1	607.9	672		234	6.13	4.2	2.2	1.31	0.91	29.8	1.31
44.80	44.69	21.2	0.55	-0.34	21.1	2.58	5	117	2.58	1.50	12.4	12.9	2.95	3	2.92	15.2	0.00	15.2	4	0.08	1	53.10	0.62	274.1	603.0	659		239	6.19	4.3	2.4	1.33	0.92	29.8	1.33
44.90	44.83	21.1	0.55	-0.33	21.0	2.60	5	117	2.59	1.51	12.3	12.8	2.97	3	2.92	15.1	0.00	15.1	4	0.08	1	53.37	0.62	274.1	603.0	659		236	6.15	4.3	2.4	1.32	0.91	29.8	1.32
45.00	44.97	21.0	0.57	-0.33	21.0	2.71	5	117	2.60	1.51	12.2	12.6	3.10	3	2.94	15.0	0.00	15.0	4	0.08	1	54.24	0.62	274.1	606.5	668		232	6.12	4.2	2.3	1.31	0.90	29.7	1.31
45.20	45.10	21.2	0.60	-0.33	21.1	2.85	5	117	2.61	1.51	12.2	12.7	3.26	3	2.95	15.1	0.00	15.1	4	0.08	1	54.97	0.62	274.1	613.1	685		235	6.16	4.2	2.2	1.32	0.91	29.7	1.32
45.30	45.22	21.5	0.61	-0.33	21.5	2.82	5	117	2.62	1.52	12.4	13.0	3.22	3	2.94	15.4	0.00	15.4	4	0.08	1	54.35	0.62	274.1	615.7	692		244	6.29	4.3	2.2	1.35	0.93	29.8	1.35
45.40	45.35	22.0	0.65	-0.33	21.9	2.94	5	118	2.62	1.52	12.7	13.2	3.35	3	2.94	15.7	0.00	15.7	4	0.07	1	54.55	0.62	274.1	623.9	713		255	6.44	4.4	2.1	1.38	0.94	29.9	1.38

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Z_b (ft)	Z_m (ft)	q_c (tsf)	f_s (tsf)	u_2 (tsf)	q_t (tsf)	R_f	SBT	γ (pcf)	σ_{v0} (tsf)	σ_{v0}' (tsf)	Q_t	Q_{tn}	F_R	SBT_n	I_c	q_{c1N}	K_c	$Q_{tn,cs}$	$(SBT)_{Ic}$	B_q	$(SBT)_{Bq}$	F_C (%)	c	R	V_s (ft/s)	G_0 (tsf)	E' (tsf)	M (tsf)	σ_p' (tsf)	OCR	S_t	S_u (tsf)	S_u/σ_{v0}'	φ (°)	c' (tsf)
45.50	45.48	22.5	0.68	-0.33	22.4	3.04	5	118	2.63	1.52	13.0	13.5	3.45	3	2.94	16.0	0.00	16.0	4	0.07	1	54.54	0.62	274.1	631.5	734		267	6.59	4.5	2.1	1.41	0.97	30.0	1.41
45.70	45.61	23.3	0.66	-0.33	23.3	2.84	5	118	2.64	1.53	13.5	14.1	3.21	3	2.91	16.6	0.00	16.6	4	0.07	1	52.42	0.61	274.1	631.8	733		289	6.88	4.7	2.2	1.48	1.01	30.3	1.48
45.80	45.74	22.6	0.56	-0.32	22.5	2.49	5	117	2.65	1.53	13.0	13.6	2.83	3	2.89	16.0	0.00	16.0	4	0.07	1	51.35	0.62	274.1	612.9	683		270	6.62	4.5	2.5	1.42	0.97	30.1	1.42
45.90	45.87	21.6	0.54	-0.32	21.5	2.51	5	117	2.65	1.53	12.3	12.8	2.87	3	2.91	15.2	0.00	15.2	4	0.08	1	52.76	0.62	274.1	605.8	665		242	6.29	4.3	2.5	1.35	0.92	29.8	1.35
46.10	46.01	21.8	0.46	-0.32	21.7	2.11	6	115	2.66	1.54	12.4	13.0	2.41	4	2.87	15.4	0.00	15.4	4	0.08	1	49.92	0.62	274.1	591.8	628		248	6.36	4.3	2.9	1.36	0.93	29.9	1.36
46.20	46.14	22.3	0.38	-0.32	22.2	1.71	6	114	2.67	1.54	12.7	13.4	1.95	4	2.81	15.7	0.00	15.7	4	0.07	1	46.42	0.62	274.1	577.2	590		262	6.52	4.5	3.6	1.40	0.96	30.0	1.40
46.30	46.26	22.4	0.47	-0.32	22.3	2.12	6	116	2.68	1.54	12.7	13.4	2.41	4	2.86	15.7	0.00	15.7	4	0.07	1	49.37	0.62	274.1	597.1	640		263	6.55	4.5	2.9	1.40	0.96	30.0	1.40
46.50	46.40	26.1	0.61	-0.32	26.1	2.35	6	118	2.68	1.55	15.1	16.0	2.63	4	2.82	18.3	0.00	18.3	4	0.06	1	47.00	0.60	274.1	635.2	740		327	7.79	5.3	2.7	1.67	1.14	30.8	1.67
46.60	46.53	29.0	0.77	-0.32	29.0	2.64	6	120	2.69	1.55	16.9	17.9	2.92	4	2.80	20.3	0.00	20.3	4	0.06	1	46.21	0.60	274.0	667.8	831		368	8.76	6.0	2.4	1.88	1.28	31.4	1.88
46.70	46.66	31.6	1.02	-0.32	31.5	3.22	5	122	2.70	1.56	18.5	19.6	3.53	4	2.82	22.1	0.00	22.1	4	0.05	1	47.40	0.59	274.0	708.2	953		403	9.60	6.5	2.0	2.06	1.40	31.8	2.06
46.90	46.80	32.9	1.13	-0.32	32.9	3.43	5	123	2.71	1.56	19.3	20.4	3.75	4	2.83	23.1	0.00	23.1	4	0.05	1	47.51	0.59	274.0	725.4	1,007		422	10.05	6.8	1.9	2.15	1.46	32.0	2.15
47.00	46.94	35.5	1.21	-0.32	35.4	3.40	5	124	2.72	1.56	20.9	22.2	3.69	4	2.80	25.0	0.00	25.0	4	0.04	1	45.73	0.58	274.0	741.2	1,057		458	10.91	7.4	1.9	2.34	1.59	32.4	2.34
47.10	47.06	36.1	1.22	-0.31	36.1	3.39	5	124	2.72	1.57	21.3	22.6	3.67	4	2.79	25.4	0.00	25.4	4	0.04	1	45.31	0.58	274.0	744.8	1,069		467	11.12	7.5	1.9	2.38	1.62	32.5	2.38
47.30	47.19	37.5	1.29	-0.31	37.4	3.45	5	124	2.73	1.57	22.0	23.5	3.73	4	2.78	26.3	0.00	26.3	4	0.04	1	44.89	0.58	274.0	755.8	1,105		485	11.55	7.8	1.9	2.48	1.68	32.7	2.48
47.40	47.32	37.6	1.38	-0.31	37.5	3.67	5	125	2.74	1.58	22.1	23.5	3.97	4	2.80	26.4	0.00	26.4	4	0.04	1	45.85	0.58	274.0	765.3	1,137		487	11.60	7.8	1.8	2.49	1.68	32.7	2.49
47.50	47.44	39.1	1.46	-0.30	39.0	3.74	5	125	2.75	1.58	22.9	24.4	4.03	4	2.79	27.4	0.00	27.4	4	0.04	1	45.39	0.57	274.0	777.1	1,178		508	12.09	8.1	1.8	2.59	1.74	32.9	2.59
47.70	47.58	38.7	1.49	-0.29	38.6	3.85	5	126	2.76	1.58	22.6	24.1	4.15	4	2.80	27.1	0.00	27.1	4	0.04	1	46.14	0.57	274.0	779.3	1,186		502	11.95	8.0	1.7	2.56	1.72	32.8	2.56
47.80	47.71	38.4	1.49	-0.29	38.4	3.89	5	126	2.77	1.59	22.4	23.8	4.20	3	2.81	26.8	0.00	26.8	4	0.04	1	46.50	0.58	274.0	779.6	1,187		498	11.87	7.9	1.7	2.54	1.70	32.7	2.54
47.90	47.84	38.1	1.49	-0.29	38.0	3.90	5	126	2.77	1.59	22.1	23.5	4.22	3	2.81	26.5	0.00	26.5	4	0.04	1	46.81	0.58	274.0	778.4	1,182		494	11.75	7.8	1.7	2.52	1.68	32.7	2.52
48.00	47.97	36.9	1.48	-0.29	36.9	4.00	5	125	2.78	1.60	21.3	22.6	4.33	3	2.83	25.6	0.00	25.6	4	0.04	1	47.97	0.58	274.0	774.9	1,170		477	11.36	7.5	1.6	2.43	1.62	32.5	2.43
48.20	48.10	36.4	1.44	-0.29	36.3	3.94	5	125	2.79	1.60	20.9	22.2	4.28	3	2.84	25.2	0.00	25.2	4	0.04	1	48.12	0.58	274.0	770.0	1,153		470	11.18	7.4	1.7	2.40	1.59	32.4	2.40
48.30	48.23	35.1	1.35	-0.29	35.1	3.86	5	125	2.80	1.60	20.1	21.3	4.20	3	2.84	24.2	0.00	24.2	4	0.05	1	48.60	0.58	274.0	759.1	1,116		452	10.76	7.1	1.7	2.30	1.52	32.2	2.30
48.40	48.37	32.2	1.25	-0.29	32.2	3.88	5	124	2.81	1.61	18.3	19.3	4.26	3	2.88	22.0	0.00	22.0	4	0.05	1	50.79	0.59	274.0	741.2	1,057		411	9.80	6.4	1.7	2.10	1.38	31.7	2.10
48.60	48.51	29.8	1.09	-0.29	29.7	3.67	5	123	2.82	1.61	16.7	17.6	4.07	3	2.90	20.2	0.00	20.2	4	0.06	1	51.88	0.60	274.0	717.1	980		377	8.97	5.9	1.7	1.92	1.25	31.3	1.92
48.70	48.64	27.2	0.95	-0.29	27.1	3.51	5	121	2.82	1.62	15.0	15.8	3.92	3	2.92	18.4	0.00	18.4	4	0.06	1	53.48	0.60	274.1	692.8	905		340	8.10	5.3	1.8	1.74	1.13	30.8	1.74
48.80	48.77	27.0	0.84	-0.29	27.0	3.13	5	120	2.83	1.62	14.9	15.7	3.50	3	2.90	18.3	0.00	18.3	4	0.06	1	51.74	0.60	274.1	678.6	862		338	8.05	5.2	2.0	1.73	1.12	30.8	1.73
49.00	48.91	27.0	0.75	-0.29	27.0	2.78	5	120	2.84	1.63	14.9	15.7	3.12	4	2.87	18.3	0.00	18.3	4	0.06	1	49.94	0.60	274.1	666.1	824		338	8.05	5.2	2.3	1.73	1.12	30.8	1.73
49.10	49.04	26.9	0.72	-0.29	26.9	2.68	5	119	2.85	1.63	14.8	15.6	3.00	4	2.86	18.2	0.00	18.2	4	0.06	1	49.47	0.60	274.1	661.3	810		337	8.01	5.2	2.4	1.72	1.12	30.7	1.72
49.20	49.16	27.0	0.70	-0.29	27.0	2.59	6	119	2.85	1.63	14.8	15.7	2.90	4	2.85	18.2	0.00	18.2	4	0.06	1	48.90	0.60	274.1	658.6	802		338	8.05	5.2	2.5	1.72	1.12	30.8	1.72
49.40	49.30	26.6	0.68	-0.29	26.5	2.55	6	119	2.86	1.64	14.4	15.3	2.87	4	2.86	17.8	0.00	17.8	4	0.06	1	49.24	0.61	274.1	654.2	790		331	7.88	5.1	2.5	1.69	1.09	30.6	1.69
49.50	49.42	25.8	0.66	-0.29	25.7	2.55	6	118	2.87	1.64	13.9	14.8	2.87	4	2.87	17.3	0.00	17.3	4	0.07	1	50.03	0.61	274.1	648.6	774		320	7.62	4.9	2.5	1.63	1.05	30.5	1.63
49.60	49.55	24.8	0.65	-0.29	24.7	2.63	5	118	2.88	1.64	13.3	14.0	2.98	3	2.89	16.6	0.00	16.6	4	0.07	1	51.64	0.61	274.1	644.4	763		306	7.28	4.7	2.4	1.56	1.00	30.2	1.56
49.80	49.68	24.7	0.66	-0.29	24.7	2.66	5	118	2.88	1.65	13.2	14.0	3.02	3	2.90	16.5	0.00	16.5	4	0.07	1	51.95	0.61	274.1	645.7	767		304	7.26	4.7	2.4	1.56	1.00	30.2	1.56
49.90	49.81	24.9	0.62	-0.28	24.8	2.50	6	118	2.89	1.65	13.3	14.0	2.83	4	2.88	16.6	0.00	16.6	4	0.07	1	50.86	0.61	274.1	640.4	752		307	7.30	4.7	2.5	1.56	1.00	30.2	1.56
50.00	49.95	24.8	0.57	-0.28	24.7	2.31	6	117	2.90	1.65	13.2	14.0	2.63	4	2.87	16.5	0.00	16.5	4	0.07	1	49.87	0.61	274.1	632.4	729		305	7.27	4.7	2.7	1.56	1.00	30.2	1.56

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Z_b (ft)	Z_m (ft)	$C_c/(1+e_0)$(%)	$C_r/(1+e_0)$(%)	μ_{FC}	μ_{LL}	μ_{PI}	K_0	D_R (%)	$N_{60L\&B}$	$(N_{60})_{1c}$	$(N_1)_{60l\&B}$	C_N	$(N_1)_{60csL\&R}$	$(N_1)_{60csIc}$	$(N_1)_{60csl\&B}$	$(N_1)_{60qc1ncs}$	r_d	MSF	K_σ	K_α	$CSR_{7.5}$	$CRR_{7.5}$	FS	τ_{av} (tsf)	p'(tsf)	γ_{max} (%)	G/G_0	ε_v (%)	ΔS_i	ΣS_i (in)
0.30	0.15	320.53	32.05	84.5	31.1	11.0	0.20		0.5	-1.6	0.0	1.70	6.0	1.7	5.5	-6.4	1.00	1.03	1.10	1.00	0.37	1.30		0.00	0.00		0.00		0.00	0.14
0.40	0.34	200.57	20.06	89.9	34.0	12.1	0.25		0.6	-4.0	0.0	1.70	6.3	-3.2	5.5	-15.6	1.00	1.03	1.10	1.00	0.37	1.30		0.01	0.01		0.00		0.00	0.14
0.50	0.47	0.34	0.11	0.0	6.5	1.9	1.48	91.1	36.9	27.4	45.3	1.70	63.0	46.7	45.3	47.4	1.00	1.45	1.10	1.00	0.26	1.30		0.01	0.04		0.00		0.00	0.14
0.70	0.60	0.33	0.11	0.0	6.6	1.9	1.49	92.0	37.9	28.0	46.6	1.70	64.6	47.8	46.6	48.2	1.00	1.45	1.10	1.00	0.26	1.30		0.02	0.05	0.001	0.94	0.00	0.00	0.14
0.80	0.73	0.55	0.18	0.8	7.9	2.4	1.25	83.7	32.4	19.6	27.8	1.70	57.7	35.5	29.4	40.3	1.00	1.45	1.10	1.00	0.26	1.30		0.02	0.05	0.002	0.91	0.00	0.00	0.14
0.90	0.86	0.72	0.24	10.4	9.2	2.8	1.05	78.9	32.2	14.3	15.9	1.70	61.6	29.2	20.0	38.8	1.00	1.37	1.10	1.00	0.28	0.59		0.02	0.06	0.002	0.88	0.00	0.00	0.14
1.10	0.99	0.73	0.24	12.2	9.5	2.9	1.04	78.0	31.2	13.9	15.2	1.70	59.7	28.2	19.2	36.8	1.00	1.35	1.10	1.00	0.28	0.50		0.03	0.06	0.003	0.86	0.00	0.00	0.14
1.20	1.13	0.30	0.10	27.1	12.1	3.8	0.76	66.2	21.3	8.3	4.4	1.70	47.2	21.4	9.8	40.9	1.00	1.14	1.10	1.00	0.33	0.17		0.03	0.06	0.005	0.75	0.00	0.00	0.14
1.30	1.26	0.36	0.12	31.6	13.0	4.1	0.70	63.3	18.0	7.2	2.8	1.70	41.3	19.5	8.3	38.9	1.00	1.12	1.10	1.00	0.34	0.15		0.03	0.06	0.007	0.67	0.01	0.00	0.14
1.50	1.39	0.32	0.11	30.0	12.7	4.0	0.75	64.7	15.3	7.6	3.9	1.70	33.9	19.1	9.2	30.8	1.00	1.13	1.10	1.00	0.34	0.16		0.04	0.07	0.009	0.63	0.01	0.00	0.14
1.60	1.52	0.32	0.11	30.9	12.9	4.1	0.74	64.1	15.2	7.3	3.9	1.70	33.0	18.2	9.0	26.8	1.00	1.12	1.10	1.00	0.34	0.16		0.04	0.08	0.012	0.56	0.01	0.00	0.14
1.70	1.65	0.32	0.11	32.0	13.1	4.2	0.74	63.6	15.0	7.2	3.8	1.70	32.5	17.7	8.8	25.2	1.00	1.12	1.10	1.00	0.34	0.15		0.04	0.09	0.015	0.52	0.02	0.00	0.14
1.80	1.78	0.62	0.21	46.3	16.6	5.4	6.25		10.5	4.5	0.4	1.70	26.4	14.2	6.0	7.7	1.00	1.03	1.10	1.00	0.37	1.30		0.05	0.50		0.00		0.00	0.14
2.00	1.91	0.75	0.25	51.1	18.0	5.9	5.14		13.0	4.0	0.3	1.70	31.4	13.1	6.0	6.7	1.00	1.03	1.10	1.00	0.37	1.30		0.05	0.45		0.00		0.00	0.14
2.10	2.04	0.87	0.29	54.9	19.1	6.4	4.42		11.2	3.1	1.1	1.70	27.8	11.3	6.6	12.2	1.00	1.03	1.10	1.00	0.37	1.30		0.05	0.42		0.00		0.00	0.14
2.30	2.18	0.92	0.31	56.8	19.7	6.6	4.20		10.6	2.9	0.9	1.70	26.7	10.9	6.5	11.4	0.99	1.03	1.10	1.00	0.37	1.30		0.06	0.42		0.00		0.00	0.14
2.40	2.32	0.93	0.31	57.5	20.0	6.7	4.18		7.1	3.3	0.3	1.70	19.4	11.6	5.9	5.5	0.99	1.03	1.10	1.00	0.37	1.30		0.06	0.45		0.00		0.00	0.14
2.50	2.44	0.93	0.31	58.1	20.2	6.8	4.17		7.1	3.2	0.3	1.70	19.4	11.6	5.9	5.5	0.99	1.03	1.10	1.00	0.37	1.30		0.06	0.47		0.00		0.00	0.14
2.60	2.57	0.93	0.31	58.7	20.3	6.8	4.17		7.1	3.2	0.3	1.70	19.4	11.6	5.9	5.5	0.99	1.03	1.10	1.00	0.37	1.30		0.07	0.49		0.00		0.00	0.14
2.80	2.69	0.92	0.31	59.1	20.5	6.9	4.18		10.6	2.9	0.9	1.70	26.7	10.9	6.5	11.3	0.99	1.03	1.10	1.00	0.37	1.30		0.07	0.51		0.00		0.00	0.14
2.90	2.83	0.90	0.30	59.2	20.5	6.9	4.27		10.8	3.0	1.0	1.70	27.1	11.1	6.6	11.8	0.99	1.03	1.10	1.00	0.37	1.30		0.07	0.55		0.00		0.00	0.14
3.00	2.96	0.89	0.30	59.5	20.6	6.9	4.33		11.0	3.1	1.0	1.70	27.4	11.3	6.6	12.1	0.99	1.03	1.10	1.00	0.37	1.30		0.07	0.58		0.00		0.00	0.14
3.20	3.10	0.84	0.28	58.7	20.4	6.8	4.60		11.7	3.2	1.2	1.70	28.8	11.6	6.8	12.7	0.99	1.03	1.10	1.00	0.37	1.30		0.08	0.64		0.00		0.00	0.14
3.30	3.23	0.79	0.26	57.8	20.1	6.7	4.91		12.5	3.4	1.5	1.70	30.4	11.9	7.0	13.4	0.99	1.03	1.10	1.00	0.37	1.30		0.08	0.70		0.00		0.00	0.14
3.40	3.36	0.76	0.25	57.4	19.9	6.7	5.11		13.0	3.5	1.6	1.70	31.4	12.2	7.2	13.9	0.99	1.03	1.10	1.00	0.37	1.30		0.08	0.76		0.00		0.00	0.14
3.60	3.49	0.72	0.24	56.7	19.7	6.6	5.38		13.6	4.2	0.4	1.70	32.8	13.6	6.0	7.2	0.99	1.03	1.10	1.00	0.37	1.30		0.09	0.82		0.00		0.00	0.14
3.70	3.62	0.68	0.23	55.8	19.4	6.5	5.73		14.5	4.5	0.4	1.70	34.6	14.1	6.0	7.6	0.99	1.03	1.10	1.00	0.37	1.30		0.09	0.90		0.00		0.00	0.14
3.80	3.75	0.63	0.21	54.6	19.0	6.3	6.18		15.7	4.8	0.4	1.70	37.0	14.7	6.0	8.1	0.99	1.03	1.10	1.00	0.37	1.30		0.09	1.00		0.00		0.00	0.14
3.90	3.88	0.59	0.20	53.6	18.7	6.2	6.58		16.7	5.0	0.4	1.70	39.0	15.2	6.1	8.5	0.99	1.03	1.10	1.00	0.37	1.30		0.10	1.10		0.00		0.00	0.14
4.10	4.00	0.55	0.18	52.6	18.4	6.1	7.03		17.8	5.3	0.6	1.70	41.3	15.8	6.2	9.0	0.99	1.04	1.10	1.00	0.37	1.30		0.10	1.21		0.00		0.00	0.14
4.20	4.14	0.53	0.18	52.1	18.2	6.0	7.33		18.6	5.5	0.7	1.70	42.9	16.2	6.3	9.4	0.99	1.04	1.10	1.00	0.37	1.30		0.10	1.30		0.00		0.00	0.14
4.30	4.28	0.50	0.17	51.5	18.1	6.0	7.66		19.4	5.7	0.9	1.70	44.6	16.7	6.5	9.7	0.99	1.04	1.09	1.00	0.37	1.30		0.11	1.40		0.00		0.00	0.14
4.50	4.41	0.49	0.16	51.2	18.0	6.0	7.87		20.0	5.9	1.0	1.70	45.8	17.0	6.6	10.0	0.99	1.04	1.09	1.00	0.37	1.30		0.11	1.48		0.00		0.00	0.14
4.60	4.54	0.48	0.16	50.9	17.9	5.9	7.86		20.5	6.0	1.2	1.70	46.9	17.3	6.8	10.2	0.99	1.04	1.09	1.00	0.37	1.30		0.11	1.52		0.00		0.00	0.14
4.70	4.66	0.47	0.16	51.0	17.9	5.9	7.74		20.8	6.1	1.2	1.70	47.4	17.4	6.8	10.4	0.99	1.04	1.09	1.00	0.37	1.30		0.12	1.54		0.00		0.00	0.14
4.90	4.80	0.47	0.16	51.3	18.0	6.0	7.54		20.9	6.1	1.2	1.70	47.6	17.5	6.8	10.4	0.98	1.04	1.09	1.00	0.37	1.30		0.12	1.55		0.00		0.00	0.14
5.00	4.93	0.47	0.16	51.6	18.1	6.0	7.33		20.9	6.1	1.2	1.70	47.6	17.5	6.8	10.5	0.98	1.04	1.09	1.00	0.37	1.30		0.12	1.55		0.00		0.00	0.14
5.10	5.06	0.47	0.16	51.9	18.2	6.0	7.15		20.9	6.2	1.2	1.70	47.7	17.5	6.8	10.5	0.98	1.04	1.09	1.00	0.37	1.30		0.13	1.56		0.00		0.00	0.14
5.30	5.20	0.47	0.16	52.5	18.4	6.1	6.89		20.7	6.1	1.2	1.70	47.3	17.4	6.8	10.4	0.98	1.04	1.08	1.00	0.37	1.30		0.13	1.55		0.00		0.00	0.14
5.40	5.34	0.49	0.16	53.3	18.6	6.2	6.54		20.2	6.0	1.1	1.70	46.3	17.1	6.7	10.1	0.98	1.04	1.08	1.00	0.37	1.30		0.13	1.51		0.00		0.00	0.14
5.50	5.46	0.49	0.16	53.6	18.7	6.2	6.39		20.2	5.9	1.1	1.70	46.3	17.1	6.7	10.1	0.98	1.04	1.08	1.00	0.37	1.30		0.14	1.51		0.00		0.00	0.14
5.70	5.60	0.48	0.16	53.8	18.8	6.2	6.28		20.4	6.0	1.1	1.70	46.6	17.1	6.7	10.1	0.98	1.04	1.08	1.00	0.37	1.30		0.14	1.53		0.00		0.00	0.14
5.80	5.73	0.48	0.16	53.8	18.8	6.2	6.21		20.6	6.0	1.2	1.70	47.1	17.3	6.8	10.2	0.98	1.04	1.08	1.00	0.37	1.30		0.14	1.55		0.00		0.00	0.14
5.90	5.85	0.47	0.16	53.9	18.8	6.2	6.13		20.8	6.1	1.2	1.70	47.5	17.4	6.8	10.3	0.98	1.04	1.08	1.00	0.37	1.30		0.15	1.56		0.00		0.00	0.14
6.10	5.99	0.47	0.16	54.1	18.9	6.3	6.00		20.9	6.1	1.2	1.70	47.6	17.4	6.8	10.3	0.98	1.04	1.07	1.00	0.37	1.30		0.15	1.57		0.00		0.00	0.14
6.20	6.13	0.48	0.16	54.7	19.1	6.3	5.78		20.6	6.0	1.2	1.69	46.8	17.2	6.8	10.2	0.98	1.04	1.07	1.00	0.37	1.30		0.15	1.55		0.00		0.00	0.14
6.30	6.26	0.49	0.16	55.6	19.3	6.5	5.50		20.0	5.5	2.8	1.67	45.2	16.0	8.3	15.0	0.98	1.04	1.07	1.00	0.37	1.30		0.16	1.51		0.00		0.00	0.14
6.40	6.37	0.51	0.17	56.6	19.7	6.6	5.23		19.4	5.3	2.5	1.66	43.6	15.6	8.1	14.4	0.98	1.04	1.07	1.00	0.37	1.30		0.16	1.47		0.00		0.00	0.14
6.60	6.51	0.52	0.17	57.3	19.9	6.7	5.01		19.0	5.3	2.3	1.64	42.4	15.4	7.9	13.9	0.98	1.04	1.07	1.00	0.37	1.30		0.16	1.45		0.00		0.00	0.14
6.70	6.64	0.52	0.17	57.7	20.0	6.7	4.89		18.9	5.2	2.2	1.62	41.9	15.2	7.8	13.5	0.98	1.04	1.06	1.00	0.37	1.30		0.17	1.44		0.00		0.00	0.14
6.80	6.77	0.52	0.17	57.8	20.0	6.7	4.83		19.1	5.3	2.2	1.61	41.8	15.2	7.8	13.4	0.98	1.04	1.06	1.00	0.37	1.30		0.17	1.45		0.00		0.00	0.14
7.00	6.90	0.52	0.17	58.3	20.2	6.8	4.68		18.8	5.2	2.1	1.59	41.0	15.0	7.6	13.0	0.98	1.04	1.06	1.00	0.37	1.30		0.17	1.44		0.00		0.00	0.14
7.10	7.03	0.52	0.17	58.4	20.2	6.8	4.62		19.0	5.3	2.0	1.58	40.9	15.0	7.6	12.8	0.98	1.04	1.06	1.00	0.37	1.30		0.17	1.45		0.00		0.00	0.14
7.20	7.16	0.50	0.17	57.7	20.0	6.7	4.72		19.7	5.4	2.2	1.56	42.0	15.1	7.7	12.9	0.97	1.04	1.06	1.00	0.37	1.30		0.18	1.51		0.00		0.00	0.14
7.40	7.30	0.49	0.16	57.4	19.9	6.7	4.74		20.2	5.5	2.3	1.55	42.6	15.2	7.8	12.9	0.97	1.04	1.06	1.00	0.37	1.30		0.18	1.54		0.00		0.00	0.14
7.50	7.42	0.49	0.16	57.5	20.0	6.7	4.69		20.3	5.5	2.2	1.54	42.4	15.2	7.8	12.7	0.97	1.04	1.06	1.00	0.37	1.30		0.18	1.55		0.00		0.00	0.14
7.60	7.56	0.49	0.16	57.9	20.1	6.7	4.58		20.2	5.5	2.1	1.52	41.9	15.1	7.7	12.5	0.97	1.04	1.06	1.00	0.37	1.30		0.19	1.55		0.00		0.00	0.14
7.70	7.69	0.49	0.16	58.2	20.2	6.8	4.48		20.1	5.6	2.0	1.51	41.4	15.0	7.6	12.3	0.97	1.04	1.06	1.00	0.37	1.30		0.19	1.54		0.00		0.00	0.14
7.90	7.81	0.49	0.16	58.3	20.2	6.8	4.43		20.2	5.6	2.0	1.50	41.3	15.1	7.6	12.3	0.97	1.04	1.05	1.00	0.37	1.30		0.19	1.55		0.00		0.00	0.14
8.00	7.95	0.48	0.16	57.9	20.1	6.7	4.47		20.8	5.8	2.1	1.48	42.0	15.3	7.7	12.4	0.97	1.04	1.05	1.00	0.37	1.30		0.20	1.59		0.00		0.00	0.14
8.20	8.10	0.47	0.16	57.9	20.1	6.7	4.44		21.1	5.8	2.1	1.47	42.1	15.3	7.7	12.3	0.97	1.04	1.05	1.00	0.37	1.30		0.20	1.62		0.00		0.00	0.14
8.30	8.22	0.47	0.16	57.9	20.1	6.7	4.42		21.2	5.9	2.1	1.46	42.2	15.3	7.6	12.3	0.97	1.04	1.05	1.00	0.37	1.30		0.20	1.63		0.00		0.00	0.14
8.40	8.34	0.48	0.16	58.7	20.4	6.8	4.23		20.6	5.8	1.8	1.45	40.8	15.1	7.4	11.9	0.97	1.04	1.05	1.00	0.38	1.30		0.21	1.59		0.00		0.00	0.14
8.50	8.47	0.48	0.16	59.1	20.5	6.9	4.13		20.5	5.8	1.7	1.44	40.3	15.0	7.3	11.7	0.97	1.04	1.05	1.00	0.38	1.30		0.21	1.58		0.00		0.00	0.14
8.70	8.60	0.49	0.16	59.7	20.7	7.0	3.99		20.1	5.7	1.6	1.43	39.4	14.8	7.1	11.4	0.97	1.04	1.05	1.00	0.38	1.30		0.21	1.56		0.00		0.00	0.14
8.80	8.74	0.50	0.17	60.4	20.9	7.1	3.84		19.7	5.7	1.4	1.41	38.5	14.6	7.0	11.0	0.97	1.04	1.05	1.00	0.38	1.30		0.22	1.53		0.00		0.00	0.14
8.90	8.88	0.53	0.18	61.7	21.4	7.2	3.61		18.8	5.5	1.1	1.40	36.7	14.2	6.7	10.5	0.97	1.04	1.04	1.00	0.38	1.30		0.22	1.47		0.00		0.00	0.14
9.10	9.01	0.56	0.19	63.2	21.9	7.4	3.37		17.9	5.3	0.9	1.39	34.9	13.8	6.5	9.9	0.97	1.04	1.04	1.00	0.38	1.30		0.22	1.41		0.00		0.00	0.14
9.20	9.14	0.59	0.20	64.9	22.5	7.7	3.11		16.8	5.0	0.6	1.38	32.8	13.3	6.2	9.3	0.97	1.03	1.04	1.00	0.38	1.30		0.23	1.33		0.00		0.00	0.14

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Z_b (ft)	Z_m (ft)	$C_c/(1+e_0)$(%)	$C_r/(1+e_0)$(%)	μ_{FC}	μ_{LL}	μ_{PI}	K_0	D_R (%)	$N_{60L\&B}$	$(N_{60})_{Ic}$	$(N_1)_{60I\&B}$	C_N	$(N_1)_{60csL\&R}$	$(N_1)_{60csIc}$	$(N_1)_{60csI\&B}$	$(N_1)_{60qc1ncs}$	r_d	MSF	K_σ	K_α	$CSR_{7.5}$	$CRR_{7.5}$	FS	τ_{av} (tsf)	p'(tsf)	γ_{max} (%)	G/G_0	ε_v (%)	ΔS_i	ΣS_i (in)
9.30	9.27	0.64	0.21	66.9	23.3	7.9	2.84		15.6	4.7	0.4	1.37	30.7	12.8	6.0	8.6	0.97	1.03	1.04	1.00	0.38	1.30		0.23	1.25		0.00		0.00	0.14
9.50	9.40	0.67	0.22	68.0	23.7	8.1	2.69		15.0	4.6	0.4	1.36	29.5	12.5	6.0	8.3	0.96	1.03	1.04	1.00	0.38	1.30		0.23	1.21		0.00		0.00	0.14
9.60	9.53	0.68	0.23	68.4	23.9	8.2	2.62		14.8	4.6	0.4	1.35	29.1	12.4	6.0	8.1	0.96	1.03	1.04	1.00	0.38	1.30		0.23	1.20		0.00		0.00	0.14
9.70	9.66	0.71	0.24	69.4	24.3	8.3	2.50		14.3	4.4	0.4	1.35	28.2	12.1	6.0	7.7	0.96	1.03	1.03	1.00	0.38	1.30		0.24	1.17		0.00		0.00	0.14
9.80	9.78	0.77	0.26	71.1	25.0	8.6	2.31		13.5	4.2	0.3	1.34	26.6	11.8	6.0	7.3	0.96	1.03	1.03	1.00	0.38	1.30		0.24	1.11		0.00		0.00	0.14
10.00	9.92	0.83	0.28	73.1	25.8	8.9	2.11		12.5	4.0	0.3	1.33	25.0	11.4	5.9	6.8	0.96	1.03	1.03	1.00	0.38	1.21		0.24	1.04		0.00		0.00	0.14
10.10	10.06	0.85	0.28	73.7	26.0	9.0	2.05		12.3	4.0	0.3	1.32	24.5	11.3	5.9	6.6	0.96	1.03	1.03	1.00	0.38	1.17	2.00	0.25	1.03				0.00	0.14
10.20	10.18	0.86	0.29	73.9	26.1	9.0	2.02		12.2	4.0	0.3	1.32	24.3	11.3	5.9	6.5	0.96	1.03	1.03	1.00	0.38	1.16	2.00	0.25	1.03				0.00	0.14
10.40	10.31	0.89	0.30	74.6	26.4	9.2	1.96		12.0	3.9	0.3	1.31	23.8	11.2	5.9	6.4	0.96	1.03	1.03	1.00	0.39	1.12	2.00	0.25	1.01				0.00	0.14
10.50	10.45	0.91	0.30	75.1	26.6	9.2	1.92		11.8	3.9	0.3	1.31	23.5	11.1	5.9	6.3	0.96	1.03	1.03	1.00	0.39	1.09	2.00	0.26	0.99				0.00	0.14
10.70	10.60	0.90	0.30	74.7	26.5	9.2	1.94		12.0	3.9	0.3	1.31	23.8	11.1	5.9	6.3	0.96	1.03	1.03	1.00	0.39	1.11	2.00	0.26	1.01				0.00	0.14
10.80	10.72	0.88	0.29	74.2	26.3	9.1	1.98		12.3	4.0	0.3	1.30	24.2	11.2	5.9	6.4	0.96	1.03	1.03	1.00	0.39	1.13	2.00	0.26	1.03				0.00	0.14
10.90	10.84	0.83	0.28	72.7	25.6	8.8	2.11		13.1	4.1	0.3	1.30	25.4	11.5	5.9	6.7	0.96	1.03	1.03	1.00	0.39	1.20	2.00	0.26	1.09				0.00	0.14
11.00	10.98	0.83	0.28	72.5	25.5	8.8	2.12		13.3	4.2	0.3	1.29	25.6	11.5	5.9	6.7	0.96	1.03	1.03	1.00	0.40	1.21	2.00	0.27	1.10				0.00	0.14
11.20	11.10	0.86	0.29	73.5	25.9	9.0	2.03		12.8	4.1	0.3	1.29	24.9	11.4	5.9	6.5	0.96	1.03	1.03	1.00	0.40	1.16	2.00	0.27	1.07				0.00	0.14
11.30	11.24	0.88	0.29	74.0	26.2	9.1	1.98		12.6	4.1	0.3	1.29	24.5	11.3	5.9	6.4	0.96	1.03	1.03	1.00	0.40	1.13	2.00	0.27	1.06				0.00	0.14
11.40	11.37	0.90	0.30	74.6	26.4	9.2	1.92		12.3	4.0	0.3	1.28	24.0	11.2	5.9	6.3	0.96	1.03	1.03	1.00	0.40	1.10	2.00	0.28	1.04				0.00	0.14
11.60	11.50	0.94	0.31	75.5	26.8	9.3	1.85		12.0	3.9	0.3	1.28	23.4	11.0	5.9	6.0	0.95	1.03	1.03	1.00	0.41	1.06	2.00	0.28	1.01				0.00	0.14
11.70	11.63	0.98	0.33	76.5	27.3	9.5	1.77		11.5	3.8	0.3	1.28	22.6	10.8	5.9	5.8	0.95	1.03	1.03	1.00	0.41	1.30		0.28	0.98				0.00	0.14
11.80	11.75	1.00	0.33	77.1	27.5	9.6	1.72		11.3	3.8	0.3	1.27	22.2	10.7	5.9	5.7	0.95	1.03	1.03	1.00	0.41	1.30		0.28	0.97				0.00	0.14
12.00	11.89	1.02	0.34	77.4	27.7	9.6	1.69		11.2	3.7	0.3	1.27	22.0	10.7	5.9	5.7	0.95	1.03	1.03	1.00	0.41	1.30		0.29	0.96				0.00	0.14
12.10	12.02	1.03	0.34	77.6	27.8	9.7	1.68		11.1	3.7	0.3	1.27	21.9	10.7	5.9	5.6	0.95	1.03	1.03	1.00	0.41	1.30		0.29	0.96				0.00	0.14
12.20	12.15	1.01	0.34	77.3	27.6	9.6	1.70		11.3	3.8	0.3	1.26	22.1	10.7	5.9	5.6	0.95	1.03	1.03	1.00	0.42	1.30		0.29	0.97				0.00	0.14
12.40	12.28	0.98	0.33	76.5	27.3	9.5	1.75		11.7	3.9	0.3	1.26	22.7	10.8	5.9	5.8	0.95	1.03	1.03	1.00	0.42	1.30		0.30	1.00				0.00	0.14
12.50	12.42	0.99	0.33	76.5	27.3	9.5	1.75		11.8	3.9	0.3	1.26	22.7	10.8	5.9	5.7	0.95	1.03	1.03	1.00	0.42	1.30		0.30	1.01				0.00	0.14
12.60	12.54	1.04	0.35	77.6	27.8	9.7	1.66		11.3	3.8	0.3	1.25	21.9	10.6	5.9	5.5	0.95	1.03	1.03	1.00	0.42	1.30		0.30	0.97				0.00	0.14
12.80	12.68	1.10	0.37	79.1	28.5	10.0	1.56		10.7	3.6	0.2	1.25	21.0	10.4	5.8	5.3	0.95	1.03	1.02	1.00	0.42	1.30		0.30	0.93				0.00	0.14
12.90	12.81	1.10	0.37	79.2	28.5	10.0	1.55		10.7	3.6	0.2	1.25	20.9	10.4	5.8	5.3	0.95	1.03	1.02	1.00	0.43	1.30		0.31	0.93				0.00	0.14
13.00	12.93	1.06	0.35	78.0	28.0	9.8	1.62		11.2	3.7	0.2	1.24	21.7	10.6	5.9	5.4	0.95	1.03	1.02	1.00	0.43	1.30		0.31	0.97				0.00	0.14
13.10	13.07	0.98	0.33	76.0	27.1	9.4	1.76		12.2	4.0	0.3	1.24	23.1	10.9	5.9	5.7	0.95	1.03	1.02	1.00	0.43	1.01	2.00	0.31	1.04				0.00	0.14
13.30	13.20	0.93	0.31	74.7	26.5	9.2	1.87		12.9	4.1	0.3	1.24	24.2	11.1	5.9	6.0	0.95	1.03	1.02	1.00	0.43	1.07	2.00	0.32	1.09				0.00	0.14
13.40	13.32	0.90	0.30	73.9	26.1	9.0	1.93		13.4	4.2	0.3	1.23	24.8	11.3	5.9	6.1	0.95	1.03	1.02	1.00	0.43	1.10	2.00	0.32	1.12				0.00	0.14
13.50	13.46	0.87	0.29	73.1	25.8	8.9	1.99		13.9	4.3	0.3	1.23	25.5	11.4	5.9	6.2	0.94	1.03	1.02	1.00	0.43	1.14	2.00	0.32	1.16				0.00	0.14
13.70	13.60	0.89	0.30	73.5	25.9	9.0	1.95		13.7	4.3	0.3	1.23	25.2	11.3	5.9	6.1	0.94	1.03	1.02	1.00	0.44	1.12	2.00	0.32	1.15				0.00	0.14
13.80	13.72	0.93	0.31	74.5	26.4	9.1	1.87		13.2	4.2	0.3	1.22	24.4	11.1	5.9	5.9	0.94	1.03	1.02	1.00	0.44	1.07	2.00	0.33	1.11				0.00	0.14
13.90	13.85	0.96	0.32	75.3	26.7	9.3	1.80		12.8	4.1	0.3	1.22	23.8	11.0	5.9	5.7	0.94	1.03	1.02	1.00	0.44	1.03	2.00	0.33	1.09				0.00	0.14
14.10	14.00	0.99	0.33	76.2	27.1	9.4	1.73		12.4	4.0	0.3	1.22	23.2	10.9	5.9	5.6	0.94	1.03	1.02	1.00	0.44	0.99	2.00	0.33	1.06				0.00	0.14
14.20	14.12	1.01	0.34	76.6	27.3	9.5	1.70		12.3	4.0	0.3	1.22	22.9	10.8	5.9	5.5	0.94	1.03	1.02	1.00	0.44	0.97	2.00	0.33	1.05				0.00	0.14
14.30	14.24	1.02	0.34	76.8	27.4	9.5	1.68		12.2	3.9	0.3	1.21	22.7	10.7	5.9	5.4	0.94	1.03	1.02	1.00	0.44	0.96	2.00	0.34	1.04				0.00	0.14
14.40	14.38	1.04	0.35	77.2	27.6	9.6	1.65		12.0	3.9	0.3	1.21	22.5	10.6	5.9	5.3	0.94	1.03	1.02	1.00	0.45	0.94	2.00	0.34	1.04				0.00	0.14
14.60	14.50	1.06	0.35	77.6	27.8	9.7	1.61		11.9	3.8	0.3	1.21	22.2	10.5	5.9	5.2	0.94	1.03	1.02	1.00	0.45	0.92	2.00	0.34	1.02				0.00	0.14
14.70	14.64	1.10	0.37	78.3	28.1	9.8	1.57		11.6	3.7	0.2	1.20	21.7	10.4	5.9	5.0	0.94	1.03	1.02	1.00	0.45	0.89	1.99	0.35	1.00				0.00	0.14
14.80	14.77	1.13	0.38	79.0	28.4	9.9	1.52		11.3	3.7	0.2	1.20	21.3	10.3	5.9	4.9	0.94	1.03	1.02	1.00	0.45	0.87	1.92	0.35	0.99				0.00	0.14
15.00	14.91	1.15	0.38	79.4	28.6	10.0	1.49		11.2	3.7	0.2	1.20	21.1	10.3	5.8	4.9	0.94	1.03	1.02	1.00	0.45	0.85	1.88	0.35	0.98				0.00	0.14
15.10	15.04	1.23	0.41	80.5	29.1	10.2	1.42		10.7	3.6	0.2	1.20	20.4	10.1	5.8	4.7	0.94	1.03	1.02	1.00	0.45	1.30		0.35	0.95				0.00	0.14
15.20	15.17	1.40	0.47	82.1	29.9	10.5	1.32		10.1	3.5	0.2	1.19	19.5	9.9	5.8	4.5	0.94	1.03	1.02	1.00	0.46	1.30		0.36	0.90				0.00	0.14
15.40	15.30	1.44	0.48	82.4	30.1	10.6	1.30		10.0	3.4	0.2	1.19	19.3	9.9	5.8	4.4	0.94	1.03	1.02	1.00	0.46	1.30		0.36	0.90				0.00	0.14
15.50	15.43	1.51	0.50	83.0	30.3	10.7	1.27		9.8	3.4	0.2	1.19	19.0	9.8	5.8	4.3	0.93	1.03	1.02	1.00	0.46	1.30		0.36	0.89				0.00	0.14
15.60	15.56	1.55	0.52	83.3	30.5	10.7	1.25		9.7	3.4	0.2	1.19	18.9	9.8	5.8	4.3	0.93	1.03	1.02	1.00	0.46	1.30		0.36	0.88				0.00	0.14
15.80	15.69	1.54	0.51	83.1	30.4	10.7	1.26		9.8	3.4	0.2	1.18	19.0	9.8	5.8	4.3	0.93	1.03	1.02	1.00	0.46	1.30		0.37	0.89				0.00	0.14
15.90	15.82	1.41	0.47	82.0	29.9	10.5	1.32		10.3	3.5	0.2	1.18	19.6	9.9	5.8	4.4	0.93	1.03	1.02	1.00	0.46	1.30		0.37	0.92				0.00	0.14
16.00	15.96	1.27	0.42	80.7	29.2	10.2	1.39		10.9	3.6	0.2	1.18	20.4	10.1	5.8	4.6	0.93	1.03	1.02	1.00	0.46	1.30		0.37	0.96				0.00	0.14
16.20	16.10	1.38	0.46	81.6	29.7	10.4	1.33		10.5	3.5	0.2	1.17	19.8	10.0	5.8	4.5	0.93	1.03	1.02	1.00	0.47	1.30		0.38	0.94				0.00	0.14
16.30	16.22	1.51	0.50	82.8	30.2	10.6	1.27		10.1	3.4	0.2	1.17	19.2	9.8	5.8	4.3	0.93	1.03	1.02	1.00	0.47	1.30		0.38	0.91				0.00	0.14
16.40	16.34	1.68	0.56	84.0	30.9	10.9	1.20		9.7	3.3	0.2	1.17	18.6	9.6	5.8	4.1	0.93	1.03	1.02	1.00	0.47	1.30		0.38	0.88				0.00	0.14
16.50	16.47	1.91	0.64	85.5	31.6	11.2	1.13		6.1	3.1	0.2	1.17	13.5	9.4	5.8	3.8	0.93	1.03	1.02	1.00	0.47	1.30		0.38	0.84				0.00	0.14
16.70	16.60	2.16	0.72	86.9	32.4	11.5	1.06		5.8	3.0	0.2	1.17	13.1	9.2	5.8	3.6	0.93	1.03	1.02	1.00	0.47	1.30		0.38	0.81				0.00	0.14
16.80	16.74	2.33	0.78	87.9	32.9	11.7	1.02		5.6	2.9	0.2	1.16	12.8	9.1	5.8	3.5	0.93	1.03	1.02	1.00	0.47	1.30		0.39	0.79				0.00	0.14
16.90	16.87	2.50	0.83	88.7	33.3	11.9	0.98		5.5	2.9	0.2	1.16	12.6	9.0	5.8	3.4	0.93	1.03	1.02	1.00	0.47	1.30		0.39	0.78				0.00	0.14
17.10	17.00	2.53	0.84	88.8	33.4	11.9	0.98		5.5	2.8	0.2	1.16	12.6	8.9	5.8	3.4	0.93	1.03	1.02	1.00	0.47	1.30		0.39	0.78				0.00	0.14
17.20	17.14	2.93	0.98	90.6	34.4	12.3	0.90		5.1	2.7	0.2	1.16	12.1	8.8	5.7	3.2	0.93	1.03	1.02	1.00	0.48	1.30		0.40	0.74				0.00	0.14
17.30	17.27	3.48	1.16	92.7	35.6	12.8	0.83		7.1	2.6	0.1	1.15	14.9	8.6	5.7	3.0	0.92	1.03	1.02	1.00	0.48	1.30		0.40	0.70				0.00	0.14
17.50	17.40	3.66	1.22	93.3	35.9	12.9	0.80		7.0	2.6	0.1	1.15	14.7	8.6	5.7	3.0	0.92	1.03	1.02	1.00	0.48	1.30		0.40	0.69				0.00	0.14
17.60	17.54	3.58	1.19	93.0	35.8	12.8	0.81		7.1	2.6	0.1	1.15	14.8	8.6	5.7	3.0	0.92	1.03	1.02	1.00	0.48	1.30		0.40	0.70				0.00	0.14
17.70	17.66	2.28	0.76	87.3	32.6	11.6	1.03		5.9	3.0	0.2	1.15	13.1	9.1	5.8	3.5	0.92	1.03	1.02	1.00	0.48	1.30		0.40	0.82				0.00	0.14
17.90	17.79	2.70	0.90	89.4	33.7	12.0	0.95		5.5	2.8	0.2	1.15	12.5	8.9	5.8	3.2	0.92	1.03	1.02	1.00	0.48	1.30		0.41	0.78				0.00	0.14
18.00	17.92	1.10	0.37	77.4	27.7	9.6	1.57		6.5	3.6	0.3	1.14	13.9	10.0	5.8	4.4	0.92	1.03	1.01	1.00	0.48	0.89	1.85	0.41	1.11				0.00	0.14
18.10	18.05	3.30	1.10	91.7	35.0	12.6	0.85		5.0	2.6	0.1	1.14	11.9	8.6	5.7	3.0	0.92	1.03	1.01	1.00	0.48	1.30		0.41	0.73				0.00	0.14
18.20	18.18	3.43	1.14	92.3	35.4	12.7	0.83		7.4	2.7	0.1	1.14	15.1	8.7	5.7	3.0	0.92	1.03	1.01	1.00	0.48	1.30		0.41	0.72				0.00	0.14

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Z_b (ft)	Z_m (ft)	$C_c/(1+e_0)$(%)	$C_r/(1+e_0)$(%)	μ_{FC}	μ_{LL}	μ_{PI}	K_0	D_R (%)	$N_{60L\&B}$	$(N_{60})_{Ic}$	$(N_1)_{60I\&B}$	C_N	$(N_1)_{60csL\&R}$	$(N_1)_{60csIc}$	$(N_1)_{60csI\&B}$	$(N_1)_{60qc1ncs}$	r_d	MSF	K_σ	K_α	$CSR_{7.5}$	$CRR_{7.5}$	FS	τ_{av} (tsf)	p'(tsf)	γ_{max} (%)	G/G_0	ε_v (%)	ΔS_i	ΣS_i (in)
18.40	18.31	2.49	0.83	88.5	33.2	11.8	0.98		8.5	3.1	0.2	1.14	16.7	9.2	5.8	3.5	0.92	1.03	1.01	1.00	0.49	1.30		0.42	0.81				0.00	0.14
18.50	18.45	1.59	0.53	82.8	30.3	10.7	1.24		7.1	3.5	0.2	1.13	14.6	9.7	5.8	4.0	0.92	1.03	1.01	1.00	0.49	0.71	1.45	0.42	0.95				0.00	0.14
18.60	18.58	1.46	0.49	81.7	29.7	10.4	1.29		5.6	3.6	0.2	1.13	12.5	9.8	5.8	4.1	0.92	1.03	1.01	1.00	0.49	0.74	1.51	0.42	0.99				0.00	0.14
18.80	18.72	1.49	0.50	81.9	29.8	10.5	1.28		5.5	3.5	0.2	1.13	12.5	9.8	5.8	4.1	0.92	1.03	1.01	1.00	0.49	0.73	1.50	0.42	0.98				0.00	0.14
18.90	18.85	0.91	0.30	72.7	25.6	8.8	1.89		6.3	4.4	0.3	1.13	13.6	11.0	5.9	5.2	0.92	1.03	1.01	1.00	0.49	1.08	2.00	0.43	1.32				0.00	0.14
19.00	18.98	0.58	0.06	61.4	21.3	7.2	0.39	54.2	8.3	6.0	0.5	1.13	14.5	11.6	5.4	13.8	0.91	1.07	1.02	1.00	0.47	0.12	2.00	0.43	0.50				0.00	0.14
19.20	19.11	1.12	0.37	54.9	19.1	6.4	0.46	54.4	10.9	7.1	1.5	1.12	15.8	11.3	5.2	11.9	0.91	1.07	1.02	1.00	0.47	0.12	2.00	0.43	0.54				0.00	0.14
19.30	19.24	1.00	0.33	50.9	17.9	5.9	0.50	53.7	9.6	8.1	2.5	1.12	10.8	9.1	2.5	9.1	0.91	1.07	1.02	1.00	0.47	0.12	0.25	0.43	0.56	46.870		3.90	0.05	0.09
19.50	19.38	1.12	0.37	53.8	18.8	6.2	0.47	54.4	11.4	7.4	1.7	1.12	12.8	8.3	1.7	8.3	0.91	1.07	1.02	1.00	0.47	0.12	0.25	0.44	0.54	44.834		3.82	0.09	0.00
19.60	19.50	0.58	0.06	61.2	21.2	7.2	0.39	53.9	8.5	6.0	0.5	1.12	14.5	11.4	5.3	13.1	0.91	1.07	1.02	1.00	0.47	0.12	2.00	0.44	0.51				0.00	0.00
19.70	19.63	1.09	0.36	77.0	27.5	9.6	1.56		6.8	4.0	0.3	1.12	14.2	10.3	5.9	4.5	0.91	1.03	1.01	1.00	0.50	0.89	2.00	0.44	1.17				0.00	0.00
19.80	19.77	2.42	0.81	87.6	32.7	11.6	1.00		4.6	2.9	0.2	1.11	11.2	8.9	5.8	3.2	0.91	1.03	1.01	1.00	0.50	0.57	2.00	0.44	0.85				0.00	0.00
20.00	19.90	4.13	1.38	94.0	36.3	13.1	0.76		3.7	2.4	0.1	1.11	9.9	8.2	5.7	2.5	0.91	1.03	1.01	1.00	0.50	0.44	0.88	0.45	0.72				0.00	0.00
20.10	20.03	6.51	2.17	99.6	39.9	14.5	0.60		4.0	2.2	0.1	1.11	10.4	7.9	5.7	2.2	0.91	1.03	1.01	1.00	0.50	1.30		0.45	0.63				0.00	0.00
20.20	20.17	6.92	2.31	100.0	40.4	14.7	0.58		4.0	2.2	0.1	1.11	10.3	7.9	5.7	2.1	0.91	1.03	1.01	1.00	0.50	1.30		0.45	0.62				0.00	0.00
20.30	20.30	6.61	2.20	99.7	40.0	14.5	0.60		4.0	2.2	0.1	1.11	10.4	7.9	5.7	2.2	0.91	1.03	1.01	1.00	0.50	1.30		0.45	0.63				0.00	0.00
20.50	20.42	5.24	1.75	96.9	38.1	13.8	0.67		3.4	2.3	0.1	1.11	9.5	8.0	5.7	2.3	0.91	1.03	1.01	1.00	0.50	1.30		0.45	0.68				0.00	0.00
20.60	20.56	4.86	1.62	95.9	37.5	13.6	0.70		3.5	2.4	0.1	1.10	9.6	8.1	5.7	2.4	0.91	1.03	1.01	1.00	0.50	1.30		0.46	0.69				0.00	0.00
20.70	20.68	4.22	1.41	94.2	36.5	13.1	0.75		3.7	2.4	0.1	1.10	9.9	8.2	5.7	2.5	0.90	1.03	1.01	1.00	0.50	1.30		0.46	0.73				0.00	0.00
20.90	20.81	3.50	1.17	91.9	35.1	12.6	0.83		4.0	2.6	0.1	1.10	10.3	8.4	5.8	2.7	0.90	1.03	1.01	1.00	0.51	0.47	0.94	0.46	0.77				0.00	0.00
21.00	20.94	3.18	1.06	90.7	34.4	12.3	0.87		4.2	2.7	0.2	1.10	10.5	8.6	5.8	2.8	0.90	1.03	1.01	1.00	0.51	0.50	0.98	0.46	0.80				0.00	0.00
21.10	21.08	2.53	0.84	87.9	32.9	11.7	0.98		4.7	2.9	0.2	1.10	11.1	8.9	5.8	3.1	0.90	1.03	1.01	1.00	0.51	0.56	1.10	0.47	0.87				0.00	0.00
21.30	21.21	1.88	0.63	84.3	31.0	11.0	1.13		5.3	3.3	0.2	1.10	12.0	9.3	5.8	3.5	0.90	1.03	1.01	1.00	0.51	0.65	1.27	0.47	0.96				0.00	0.00
21.40	21.35	1.46	0.49	81.3	29.5	10.4	1.29		6.0	3.7	0.2	1.09	12.9	9.8	5.8	4.0	0.90	1.03	1.01	1.00	0.51	0.73	1.44	0.47	1.05				0.00	0.00
21.50	21.47	1.19	0.40	78.7	28.3	9.9	1.43		6.6	4.0	0.2	1.09	13.7	10.2	5.9	4.3	0.90	1.03	1.01	1.00	0.51	0.82	1.60	0.47	1.14				0.00	0.00
21.70	21.59	1.07	0.36	76.3	27.2	9.5	1.58		7.3	4.3	0.3	1.09	14.5	10.6	5.9	4.6	0.90	1.03	1.01	1.00	0.51	0.90	1.77	0.47	1.23				0.00	0.00
21.80	21.74	1.04	0.35	75.5	26.8	9.3	1.63		7.5	4.4	0.3	1.09	14.8	10.8	5.9	4.8	0.90	1.03	1.01	1.00	0.51	0.93	1.82	0.48	1.27				0.00	0.00
21.90	21.87	1.00	0.33	74.6	26.4	9.2	1.69		7.8	4.6	0.3	1.09	15.2	11.0	5.9	5.0	0.90	1.03	1.01	1.00	0.51	0.97	1.89	0.48	1.31				0.00	0.00
22.10	22.00	0.94	0.31	73.2	25.8	8.9	1.79		8.3	4.9	0.3	1.08	15.8	11.3	5.9	5.3	0.90	1.03	1.01	1.00	0.51	1.02	2.00	0.48	1.38				0.00	0.00
22.20	22.12	0.93	0.31	72.9	25.7	8.9	1.81		8.4	5.0	0.3	1.08	15.9	11.5	5.9	5.4	0.90	1.03	1.01	1.00	0.51	1.03	2.00	0.48	1.39				0.00	0.00
22.30	22.24	0.97	0.32	74.0	26.2	9.1	1.73		8.0	4.9	0.3	1.08	15.4	11.3	5.9	5.2	0.90	1.03	1.01	1.00	0.51	0.99	1.92	0.49	1.35				0.00	0.00
22.50	22.38	1.02	0.34	75.1	26.6	9.2	1.65		7.7	4.8	0.3	1.08	15.0	11.2	5.9	5.1	0.89	1.03	1.01	1.00	0.51	0.94	1.83	0.49	1.31				0.00	0.00
22.60	22.52	1.03	0.34	75.4	26.8	9.3	1.62		10.2	4.8	0.3	1.08	18.2	11.2	5.9	5.1	0.89	1.03	1.01	1.00	0.52	0.93	1.80	0.49	1.29				0.00	0.00
22.70	22.66	1.06	0.35	76.2	27.1	9.4	1.57		10.0	4.7	0.3	1.07	17.8	11.1	5.9	5.0	0.89	1.03	1.01	1.00	0.52	0.90	1.74	0.49	1.27				0.00	0.00
22.80	22.78	1.07	0.36	76.2	27.1	9.4	1.56		10.0	4.7	0.3	1.07	17.8	11.1	5.9	5.0	0.89	1.03	1.01	1.00	0.52	0.89	1.73	0.50	1.27				0.00	0.00
23.00	22.91	0.98	0.33	74.1	26.2	9.1	1.70		8.1	5.0	0.3	1.07	15.4	11.4	5.9	5.2	0.89	1.03	1.01	1.00	0.52	0.97	1.88	0.50	1.36				0.00	0.00
23.10	23.04	0.90	0.30	72.0	25.3	8.7	1.86		8.8	5.2	0.3	1.07	16.3	11.6	5.9	5.5	0.89	1.03	1.01	1.00	0.52	1.06	2.00	0.50	1.46				0.00	0.00
23.20	23.18	0.90	0.30	71.9	25.3	8.7	1.86		8.9	5.2	0.3	1.06	16.3	11.7	5.9	5.5	0.89	1.03	1.01	1.00	0.52	1.06	2.00	0.50	1.47				0.00	0.00
23.40	23.30	0.87	0.29	71.1	24.9	8.6	1.93		9.2	5.4	0.3	1.06	16.7	11.8	5.9	5.6	0.89	1.03	1.01	1.00	0.52	1.10	2.00	0.51	1.52				0.00	0.00
23.50	23.44	0.84	0.28	70.1	24.6	8.4	2.00		9.6	5.5	0.3	1.06	17.2	12.0	5.9	5.8	0.89	1.03	1.01	1.00	0.52	1.14	2.00	0.51	1.57				0.00	0.00
23.60	23.57	0.88	0.29	71.3	25.1	8.6	1.90		9.1	5.3	0.3	1.06	16.6	11.8	5.9	5.5	0.89	1.03	1.01	1.00	0.52	1.09	2.00	0.51	1.51				0.00	0.00
23.80	23.70	0.97	0.32	73.6	26.0	9.0	1.73		8.4	5.1	0.3	1.06	15.7	11.4	5.9	5.2	0.89	1.03	1.01	1.00	0.52	0.99	1.90	0.51	1.41				0.00	0.00
23.90	23.84	1.00	0.33	74.4	26.3	9.1	1.67		8.2	5.0	0.3	1.06	15.4	11.3	5.9	5.1	0.89	1.03	1.01	1.00	0.52	0.95	1.83	0.52	1.38				0.00	0.00
24.00	23.98	1.03	0.34	75.1	26.7	9.2	1.62		8.0	4.9	0.3	1.05	15.1	11.2	5.9	5.0	0.89	1.03	1.01	1.00	0.52	0.92	1.77	0.52	1.35				0.00	0.00
24.20	24.10	1.12	0.37	77.0	27.5	9.6	1.49		7.4	4.6	0.3	1.05	14.4	10.8	5.9	4.6	0.88	1.03	1.01	1.00	0.52	0.85	1.63	0.52	1.27				0.00	0.00
24.30	24.23	1.21	0.40	78.5	28.2	9.8	1.40		7.0	4.5	0.2	1.05	13.9	10.6	5.9	4.4	0.88	1.03	1.01	1.00	0.52	0.80	1.52	0.52	1.22				0.00	0.00
24.40	24.36	1.29	0.43	79.3	28.6	10.0	1.35		6.8	4.3	0.2	1.05	13.6	10.4	5.8	4.3	0.88	1.03	1.01	1.00	0.52	0.77	1.47	0.53	1.19				0.00	0.00
24.60	24.49	2.01	0.67	84.7	31.2	11.0	1.08		5.6	3.7	0.2	1.05	12.1	9.7	5.8	3.6	0.88	1.03	1.00	1.00	0.52	1.30		0.53	1.02				0.00	0.00
24.70	24.61	12.25	4.08	100.0	44.7	16.5	0.43		5.4	2.6	0.1	1.04	11.7	8.3	5.6	2.1	0.88	1.03	1.00	1.00	0.53	1.30		0.53	0.60				0.00	0.00
24.80	24.74	19.88	6.63	100.0	49.2	18.3	0.34		4.6	2.4	0.1	1.04	10.7	8.1	5.6	1.9	0.88	1.03	1.00	1.00	0.53	1.30		0.53	0.55				0.00	0.00
24.90	24.88	17.68	5.89	100.0	48.0	17.9	0.36		4.8	2.4	0.1	1.04	11.0	8.0	5.6	1.9	0.88	1.03	1.00	1.00	0.53	1.30		0.53	0.56				0.00	0.00
25.10	25.01	11.70	3.90	100.0	44.2	16.3	0.44		5.6	2.5	0.1	1.04	11.9	8.2	5.6	2.1	0.88	1.03	1.00	1.00	0.53	1.30		0.54	0.62				0.00	0.00
25.20	25.15	4.30	1.43	93.8	36.3	13.0	0.73		5.5	3.1	0.1	1.04	11.9	8.8	5.7	2.7	0.88	1.03	1.00	1.00	0.53	1.30		0.54	0.81				0.00	0.00
25.30	25.27	0.99	0.33	74.0	26.2	9.0	1.67		8.5	4.8	0.3	1.04	15.6	11.0	5.9	4.8	0.88	1.03	1.00	1.00	0.53	0.96	1.81	0.54	1.43				0.00	0.00
25.50	25.41	0.75	0.25	67.2	23.4	8.0	2.21		11.1	6.0	0.4	1.03	18.8	12.4	5.9	6.0	0.88	1.03	1.00	1.00	0.53	1.27	2.00	0.54	1.79				0.00	0.00
25.60	25.55	1.54	0.51	81.3	29.5	10.4	1.23		8.7	4.3	0.2	1.03	15.7	10.3	5.8	4.1	0.88	1.03	1.00	1.00	0.53	1.30		0.55	1.14				0.00	0.00
25.70	25.67	2.19	0.73	85.6	31.7	11.2	1.03		7.4	3.9	0.2	1.03	14.2	9.8	5.8	3.6	0.87	1.03	1.00	1.00	0.53	1.30		0.55	1.01				0.00	0.00
25.90	25.80	2.62	0.87	87.7	32.8	11.7	0.94		10.4	3.7	0.2	1.03	17.8	9.6	5.8	3.4	0.87	1.03	1.00	1.00	0.53	1.30		0.55	0.96				0.00	0.00
26.00	25.94	2.74	0.91	88.3	33.1	11.8	0.92		10.2	3.8	0.2	1.03	17.6	9.6	5.7	3.4	0.87	1.03	1.00	1.00	0.53	1.30		0.55	0.95				0.00	0.00
26.10	26.07	1.77	0.59	82.9	30.3	10.7	1.15		8.3	4.3	0.2	1.03	15.2	10.3	5.8	4.0	0.87	1.03	1.00	1.00	0.53	1.30		0.55	1.10				0.00	0.00
26.30	26.20	1.54	0.51	81.2	29.5	10.3	1.23		8.8	4.4	0.2	1.02	15.8	10.4	5.8	4.1	0.87	1.03	1.00	1.00	0.53	1.30		0.56	1.16				0.00	0.00
26.40	26.33	0.87	0.29	70.7	24.8	8.5	1.90		9.9	5.6	0.3	1.02	17.1	11.8	5.9	5.4	0.87	1.03	1.00	1.00	0.53	1.09	2.00	0.56	1.62				0.00	0.00
26.50	26.46	0.89	0.30	71.0	24.9	8.6	1.87		9.7	5.5	0.3	1.02	16.9	11.7	5.9	5.3	0.87	1.03	1.00	1.00	0.53	1.07	2.00	0.56	1.61				0.00	0.00
26.60	26.59	2.09	0.70	84.8	31.3	11.1	1.05		7.8	4.0	0.2	1.02	14.5	9.8	5.8	3.6	0.87	1.03	1.00	1.00	0.53	1.30		0.56	1.06				0.00	0.00
26.80	26.72	2.14	0.71	85.1	31.4	11.1	1.04		7.7	3.9	0.2	1.02	14.4	9.8	5.8	3.5	0.87	1.03	1.00	1.00	0.53	1.30		0.56	1.05				0.00	0.00
26.90	26.85	1.99	0.66	84.2	31.0	10.9	1.08		8.0	4.0	0.2	1.02	14.7	9.9	5.8	3.7	0.87	1.03	1.00	1.00	0.53	1.30		0.57	1.08				0.00	0.00
27.00	26.98	0.94	0.31	72.4	25.5	8.8	1.75		9.3	5.3	0.3	1.01	16.3	11.5	5.9	5.1	0.87	1.03	1.00	1.00	0.53	1.00	1.88	0.57	1.55				0.00	0.00
27.20	27.12	0.84	0.28	69.7	24.4	8.4	1.96		10.4	5.7	0.3	1.01	17.6	12.0	5.9	5.5	0.87	1.03	1.00	1.00	0.53	1.12	2.00	0.57	1.70				0.00	0.00
27.30	27.25	1.82	0.61	83.1	30.4	10.7	1.13		8.4	4.3	0.2	1.01	15.2	10.2	5.8	3.8	0.87	1.03	1.00	1.00	0.53	1.30		0.57	1.12				0.00	0.00

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Z_b (ft)	Z_m (ft)	$C_c/(1+e_0)$(%)	$C_r/(1+e_0)$(%)	μ_{FC}	μ_{LL}	μ_{PI}	K_0	D_R (%)	$N_{60L\&B}$	$(N_{60})_{Ic}$	$(N_1)_{60I\&B}$	C_N	$(N_1)_{60csL\&R}$	$(N_1)_{60csIc}$	$(N_1)_{60csI\&B}$	$(N_1)_{60qc1ncs}$	r_d	MSF	K_σ	K_α	$CSR_{7.5}$	$CRR_{7.5}$	FS	τ_{av} (tsf)	p'(tsf)	γ_{max} (%)	G/G_0	ε_v (%)	ΔS_i	ΣS_i (in)
27.40	27.37	1.79	0.60	82.8	30.3	10.7	1.13		8.5	4.3	0.2	1.01	15.3	10.2	5.8	3.9	0.86	1.03	1.00	1.00	0.54	1.30		0.58	1.13				0.00	0.00
27.60	27.51	1.85	0.62	83.2	30.5	10.7	1.12		8.4	4.3	0.2	1.01	15.1	10.1	5.8	3.8	0.86	1.03	1.00	1.00	0.54	1.30		0.58	1.12				0.00	0.00
27.70	27.63	2.28	0.76	85.7	31.7	11.2	1.01		7.7	4.0	0.2	1.01	14.3	9.8	5.8	3.5	0.86	1.03	1.00	1.00	0.54	1.30		0.58	1.05				0.00	0.00
27.80	27.76	2.99	1.00	89.0	33.5	11.9	0.88		6.9	3.7	0.2	1.00	13.3	9.4	5.8	3.2	0.86	1.03	1.00	1.00	0.54	1.30		0.58	0.96				0.00	0.00
28.00	27.90	3.78	1.26	91.8	35.0	12.6	0.78		6.3	3.5	0.1	1.00	12.5	9.2	5.7	2.9	0.86	1.03	1.00	1.00	0.54	1.30		0.58	0.90				0.00	0.00
28.10	28.02	4.14	1.38	92.8	35.7	12.8	0.75		6.0	3.4	0.1	1.00	12.2	9.1	5.7	2.8	0.86	1.03	1.00	1.00	0.54	1.30		0.59	0.88				0.00	0.00
28.20	28.15	3.69	1.23	91.5	34.9	12.5	0.79		6.3	3.5	0.2	1.00	12.6	9.2	5.7	2.9	0.86	1.03	1.00	1.00	0.54	1.30		0.59	0.91				0.00	0.00
28.40	28.30	3.12	1.04	89.4	33.7	12.0	0.86		6.8	3.6	0.2	1.00	13.2	9.3	5.8	3.1	0.86	1.03	1.00	1.00	0.54	1.30		0.59	0.96				0.00	0.00
28.50	28.43	2.66	0.89	87.5	32.7	11.6	0.93		7.3	3.8	0.2	1.00	13.8	9.6	5.8	3.3	0.86	1.03	1.00	1.00	0.54	1.30		0.59	1.02				0.00	0.00
28.60	28.55	2.68	0.89	87.5	32.7	11.6	0.93		7.3	3.8	0.2	0.99	13.7	9.6	5.8	3.2	0.86	1.03	1.00	1.00	0.54	1.30		0.59	1.02				0.00	0.00
28.80	28.69	2.37	0.79	86.0	31.9	11.3	0.99		7.8	4.1	0.2	0.99	14.2	9.9	5.8	3.5	0.86	1.03	1.00	1.00	0.54	1.30		0.60	1.06				0.00	0.00
28.90	28.82	2.22	0.74	85.2	31.5	11.1	1.02		12.0	4.5	0.2	0.99	19.3	10.4	5.8	3.9	0.86	1.03	1.00	1.00	0.54	1.30		0.60	1.09				0.00	0.00
29.00	28.94	1.03	0.34	74.4	26.4	9.1	1.59		17.8	6.0	0.3	0.99	26.2	12.2	5.9	5.4	0.85	1.03	1.00	1.00	0.54	1.30		0.60	1.50				0.00	0.00
29.10	29.08	0.67	0.22	63.9	22.2	7.5	2.45		17.8	7.9	0.4	0.99	26.1	14.4	6.0	7.3	0.85	1.03	1.00	1.00	0.54	1.30	2.00	0.60	2.13				0.00	0.00
29.30	29.22	0.57	0.19	60.2	20.9	7.0	2.85		20.6	9.1	0.5	0.99	29.4	15.8	6.1	8.4	0.85	1.04	1.00	1.00	0.54	1.30	2.00	0.61	2.43				0.00	0.00
29.40	29.36	0.56	0.19	59.6	20.7	6.9	2.91		15.9	9.1	0.5	0.98	23.7	15.7	6.1	8.4	0.85	1.04	1.00	1.00	0.54	1.30	2.00	0.61	2.48				0.00	0.00
29.50	29.47	0.64	0.21	62.7	21.7	7.4	2.56		14.1	8.1	0.4	0.98	21.6	14.6	6.0	7.4	0.85	1.03	1.00	1.00	0.54	1.30	2.00	0.61	2.23				0.00	0.00
29.70	29.60	0.81	0.27	68.4	23.9	8.2	2.02		11.4	6.7	0.3	0.98	18.4	12.9	6.0	6.0	0.85	1.03	1.00	1.00	0.54	1.16	2.00	0.61	1.85				0.00	0.00
29.80	29.74	0.98	0.33	73.0	25.8	8.9	1.67		9.5	5.9	0.3	0.98	16.2	11.9	5.9	5.2	0.85	1.03	1.00	1.00	0.54	0.95	1.76	0.62	1.59				0.00	0.00
29.90	29.87	1.05	0.35	74.6	26.4	9.2	1.56		9.0	5.6	0.3	0.98	15.6	11.6	5.9	4.9	0.85	1.03	1.00	1.00	0.54	0.89	1.65	0.62	1.52				0.00	0.00
30.10	30.00	1.15	0.38	76.8	27.4	9.5	1.42		8.3	5.2	0.3	0.98	14.7	11.1	5.9	4.4	0.85	1.03	1.00	1.00	0.54	0.81	1.50	0.62	1.42				0.00	0.00
30.20	30.13	1.37	0.46	79.2	28.5	10.0	1.29		7.6	4.9	0.2	0.97	13.9	10.7	5.8	4.1	0.85	1.03	1.00	1.00	0.54	0.74	1.36	0.62	1.33				0.00	0.00
30.30	30.26	1.59	0.53	81.0	29.3	10.3	1.19		7.2	4.6	0.2	0.97	13.4	10.4	5.8	3.9	0.85	1.03	1.00	1.00	0.54	0.68	1.26	0.62	1.26				0.00	0.00
30.40	30.38	1.79	0.60	82.4	30.0	10.6	1.13		6.8	4.4	0.2	0.97	13.0	10.2	5.8	3.7	0.85	1.03	1.00	1.00	0.54	0.64	1.19	0.63	1.21				0.00	0.00
30.60	30.52	2.07	0.69	84.1	30.9	10.9	1.05		6.4	4.3	0.2	0.97	12.5	10.0	5.8	3.5	0.84	1.03	1.00	1.00	0.54	1.30		0.63	1.16				0.00	0.00
30.70	30.65	2.41	0.80	85.9	31.8	11.3	0.97		6.0	4.1	0.2	0.97	12.0	9.7	5.8	3.3	0.84	1.03	1.00	1.00	0.54	1.30		0.63	1.10				0.00	0.00
30.80	30.78	2.74	0.91	87.4	32.6	11.6	0.91		5.7	4.0	0.2	0.97	11.7	9.6	5.8	3.2	0.84	1.03	1.00	1.00	0.54	1.30		0.63	1.06				0.00	0.00
31.00	30.91	2.81	0.94	87.7	32.8	11.7	0.90		5.7	3.9	0.2	0.97	11.6	9.5	5.8	3.1	0.84	1.03	1.00	1.00	0.54	1.30		0.63	1.06				0.00	0.00
31.10	31.04	2.80	0.93	87.7	32.8	11.6	0.90		5.7	3.9	0.2	0.97	11.6	9.5	5.8	3.1	0.84	1.03	1.00	1.00	0.54	1.30		0.64	1.06				0.00	0.00
31.20	31.17	2.74	0.91	87.4	32.6	11.6	0.91		5.8	3.9	0.2	0.96	11.7	9.6	5.8	3.1	0.84	1.03	1.00	1.00	0.54	1.30		0.64	1.07				0.00	0.00
31.40	31.30	3.07	1.02	88.7	33.3	11.9	0.86		5.5	3.9	0.2	0.96	11.4	9.4	5.8	3.0	0.84	1.03	1.00	1.00	0.54	1.30		0.64	1.04				0.00	0.00
31.50	31.45	3.12	1.04	88.9	33.4	11.9	0.85		5.5	3.9	0.2	0.96	11.4	9.5	5.8	3.0	0.84	1.03	1.00	1.00	0.54	1.30		0.64	1.03				0.00	0.00
31.60	31.58	3.17	1.06	89.1	33.5	12.0	0.85		5.5	3.9	0.2	0.96	11.3	9.4	5.8	3.0	0.84	1.03	1.00	1.00	0.54	1.30		0.64	1.03				0.00	0.00
31.80	31.70	3.22	1.07	89.3	33.6	12.0	0.84		5.5	3.8	0.2	0.96	11.3	9.4	5.8	3.0	0.84	1.03	1.00	1.00	0.54	1.30		0.64	1.03				0.00	0.00
31.90	31.84	3.18	1.06	89.1	33.5	12.0	0.84		5.5	3.8	0.2	0.96	11.3	9.4	5.8	3.0	0.84	1.03	1.00	1.00	0.54	1.30		0.65	1.04				0.00	0.00
32.00	31.98	2.96	0.99	88.2	33.1	11.8	0.87		5.7	3.9	0.2	0.96	11.5	9.5	5.8	3.0	0.84	1.03	0.99	1.00	0.54	1.30		0.65	1.06				0.00	0.00
32.20	32.09	2.91	0.97	88.0	33.0	11.7	0.88		5.7	3.9	0.2	0.95	11.6	9.4	5.8	3.0	0.83	1.03	0.99	1.00	0.54	1.30		0.65	1.07				0.00	0.00
32.30	32.22	2.80	0.93	87.5	32.7	11.6	0.90		5.9	3.9	0.2	0.95	11.7	9.5	5.8	3.0	0.83	1.03	0.99	1.00	0.54	1.30		0.65	1.09				0.00	0.00
32.40	32.37	2.79	0.93	87.5	32.7	11.6	0.90		5.9	3.9	0.2	0.95	11.7	9.5	5.8	3.0	0.83	1.03	0.99	1.00	0.55	1.30		0.65	1.09				0.00	0.00
32.50	32.50	2.56	0.85	86.4	32.1	11.4	0.94		6.1	4.0	0.2	0.95	12.0	9.6	5.8	3.1	0.83	1.03	0.99	1.00	0.55	1.30		0.66	1.12				0.00	0.00
32.70	32.62	2.42	0.81	85.7	31.7	11.2	0.96		6.3	4.1	0.2	0.95	12.1	9.7	5.8	3.2	0.83	1.03	0.99	1.00	0.55	1.30		0.66	1.15				0.00	0.00
32.80	32.75	2.33	0.78	85.3	31.5	11.1	0.98		6.4	4.2	0.2	0.95	12.3	9.8	5.8	3.2	0.83	1.03	0.99	1.00	0.55	1.30		0.66	1.16				0.00	0.00
32.90	32.88	2.16	0.72	84.3	31.0	11.0	1.02		6.6	4.3	0.2	0.95	12.5	9.9	5.8	3.3	0.83	1.03	0.99	1.00	0.55	0.58	1.07	0.66	1.20				0.00	0.00
33.10	33.01	2.14	0.71	84.2	30.9	10.9	1.03		6.7	4.3	0.2	0.95	12.6	9.9	5.8	3.3	0.83	1.03	0.99	1.00	0.55	0.59	1.07	0.66	1.20				0.00	0.00
33.20	33.14	1.91	0.64	82.8	30.3	10.7	1.08		7.0	4.5	0.2	0.94	12.9	10.1	5.8	3.5	0.83	1.03	0.99	1.00	0.55	0.62	1.13	0.67	1.25				0.00	0.00
33.30	33.27	1.53	0.51	80.2	29.0	10.1	1.21		6.2	4.8	0.2	0.94	12.0	10.4	5.8	3.7	0.83	1.03	0.99	1.00	0.55	0.69	1.26	0.67	1.35				0.00	0.00
33.50	33.41	1.75	0.58	81.8	29.7	10.4	1.13		7.3	4.6	0.2	0.94	13.3	10.2	5.8	3.6	0.83	1.03	0.99	1.00	0.55	0.64	1.18	0.67	1.30				0.00	0.00
33.60	33.55	1.86	0.62	82.4	30.1	10.6	1.10		7.1	4.6	0.2	0.94	13.1	10.2	5.8	3.5	0.83	1.03	0.99	1.00	0.55	0.63	1.15	0.67	1.27				0.00	0.00
33.70	33.67	1.97	0.66	83.1	30.4	10.7	1.06		7.0	4.5	0.2	0.94	12.9	10.1	5.8	3.5	0.82	1.03	0.99	1.00	0.55	0.61	1.11	0.67	1.25				0.00	0.00
33.90	33.80	1.98	0.66	83.2	30.4	10.7	1.06		7.0	4.5	0.2	0.94	12.9	10.1	5.8	3.4	0.82	1.03	0.99	1.00	0.55	0.61	1.11	0.67	1.25				0.00	0.00
34.00	33.93	1.78	0.59	81.9	29.8	10.5	1.12		7.3	4.6	0.2	0.94	13.2	10.2	5.8	3.6	0.82	1.03	0.99	1.00	0.55	0.64	1.17	0.68	1.30				0.00	0.00
34.10	34.07	1.77	0.59	81.8	29.7	10.4	1.12		7.4	4.7	0.2	0.94	13.3	10.3	5.8	3.6	0.82	1.03	0.99	1.00	0.55	0.64	1.17	0.68	1.31				0.00	0.00
34.30	34.20	1.87	0.62	82.4	30.1	10.6	1.09		7.2	4.6	0.2	0.93	13.1	10.2	5.8	3.5	0.82	1.03	0.99	1.00	0.55	0.62	1.14	0.68	1.29				0.00	0.00
34.40	34.32	1.91	0.64	82.7	30.2	10.6	1.08		7.2	4.6	0.2	0.93	13.0	10.2	5.8	3.5	0.82	1.03	0.99	1.00	0.55	0.62	1.13	0.68	1.28				0.00	0.00
34.50	34.45	2.01	0.67	83.3	30.5	10.7	1.05		7.0	4.5	0.2	0.93	12.9	10.1	5.8	3.4	0.82	1.03	0.99	1.00	0.55	0.60	1.10	0.68	1.26				0.00	0.00
34.70	34.58	1.89	0.63	82.5	30.1	10.6	1.08		7.2	4.6	0.2	0.93	13.1	10.2	5.8	3.5	0.82	1.03	0.99	1.00	0.55	0.62	1.13	0.69	1.29				0.00	0.00
34.80	34.72	1.42	0.47	79.1	28.4	9.9	1.25		6.6	5.0	0.2	0.93	12.3	10.6	5.8	3.9	0.82	1.03	0.99	1.00	0.55	0.71	1.30	0.69	1.43				0.00	0.00
34.90	34.85	1.24	0.41	77.4	27.7	9.6	1.34		7.0	5.3	0.2	0.93	12.8	10.9	5.9	4.1	0.82	1.03	0.99	1.00	0.55	0.76	1.39	0.69	1.50				0.00	0.00
35.10	34.98	1.15	0.38	76.2	27.1	9.4	1.40		7.3	5.5	0.3	0.93	13.1	11.1	5.9	4.3	0.82	1.03	0.99	1.00	0.55	0.80	1.46	0.69	1.56				0.00	0.00
35.20	35.12	1.14	0.38	76.1	27.1	9.4	1.41		7.4	5.6	0.3	0.93	13.2	11.2	5.9	4.3	0.82	1.03	0.99	1.00	0.55	0.80	1.47	0.69	1.57				0.00	0.00
35.30	35.26	1.14	0.38	76.1	27.1	9.4	1.40		9.2	5.6	0.3	0.92	15.2	11.2	5.9	4.3	0.81	1.03	0.99	1.00	0.55	0.80	1.47	0.70	1.57				0.00	0.00
35.40	35.38	1.12	0.37	75.5	26.8	9.3	1.44		7.5	5.7	0.3	0.92	13.3	11.3	5.9	4.3	0.81	1.03	0.99	1.00	0.55	0.82	1.50	0.70	1.60				0.00	0.00
35.60	35.52	1.16	0.39	76.4	27.2	9.5	1.38		9.1	5.6	0.3	0.92	15.1	11.2	5.9	4.3	0.81	1.03	0.99	1.00	0.55	0.79	1.44	0.70	1.56				0.00	0.00
35.70	35.66	1.21	0.40	77.0	27.5	9.6	1.35		9.0	5.5	0.2	0.92	14.9	11.1	5.9	4.2	0.81	1.03	0.99	1.00	0.55	0.77	1.41	0.70	1.54				0.00	0.00
35.80	35.77	1.17	0.39	76.5	27.3	9.5	1.38		7.3	5.6	0.3	0.92	13.1	11.1	5.9	4.2	0.81	1.03	0.99	1.00	0.55	0.79	1.44	0.70	1.57				0.00	0.00
36.00	35.90	1.28	0.43	77.7	27.8	9.7	1.31		8.8	5.4	0.2	0.92	14.7	11.0	5.9	4.1	0.81	1.03	0.99	1.00	0.55	0.75	1.37	0.70	1.51				0.00	0.00
36.10	36.05	1.45	0.48	79.1	28.5	10.0	1.23		8.3	5.3	0.2	0.92	14.2	10.8	5.8	3.9	0.81	1.03	0.99	1.00	0.55	0.70	1.28	0.71	1.45				0.00	0.00
36.20	36.18	1.51	0.50	79.6	28.7	10.0	1.21		8.2	5.3	0.2	0.92	14.0	10.8	5.8	3.9	0.81	1.03	0.99	1.00	0.55	0.69	1.26	0.71	1.44				0.00	0.00
36.40	36.30	1.61	0.54	80.3	29.0	10.2	1.17		8.0	5.3	0.2	0.91	13.8	10.8	5.8	3.9	0.81	1.03	0.99	1.00	0.55	1.30		0.71	1.41				0.00	0.00

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Z_b (ft)	Z_m (ft)	$C_c/(1+e_0)$(%)	$C_r/(1+e_0)$(%)	μ_{FC}	μ_{LL}	μ_{PI}	K_0	D_R (%)	$N_{60L\&B}$	$(N_{60})_{Ic}$	$(N_1)_{60I\&B}$	C_N	$(N_1)_{60csL\&R}$	$(N_1)_{60csIc}$	$(N_1)_{60csI\&B}$	$(N_1)_{60qc1ncs}$	r_d	MSF	K_σ	K_α	$CSR_{7.5}$	$CRR_{7.5}$	FS	τ_{av} (tsf)	p'(tsf)	γ_{max} (%)	G/G_0	ε_v (%)	ΔS_i	ΣS_i (in)
36.50	36.42	1.32	0.44	77.9	27.9	9.7	1.29		8.8	5.7	0.2	0.91	14.6	11.2	5.9	4.2	0.81	1.03	0.99	1.00	0.55	0.74	1.35	0.71	1.52				0.00	0.00
36.60	36.55	1.06	0.35	74.1	26.2	9.1	1.51		10.1	6.3	0.3	0.91	16.0	11.9	5.9	4.7	0.81	1.03	0.99	1.00	0.55	0.86	1.57	0.71	1.70				0.00	0.00
36.80	36.70	1.04	0.35	73.5	26.0	9.0	1.54		10.3	6.4	0.3	0.91	16.3	12.0	5.9	4.8	0.80	1.03	0.99	1.00	0.55	0.88	1.61	0.72	1.74				0.00	0.00
36.90	36.83	0.97	0.32	71.9	25.3	8.7	1.65		11.0	6.8	0.3	0.91	17.0	12.4	5.9	5.1	0.80	1.03	0.99	1.00	0.55	0.94	1.72	0.72	1.83				0.00	0.00
37.00	36.95	0.91	0.30	70.2	24.6	8.4	1.76		11.7	7.1	0.3	0.91	17.8	12.8	5.9	5.4	0.80	1.03	0.99	1.00	0.55	1.01	1.84	0.72	1.94				0.00	0.00
37.20	37.09	0.98	0.33	72.0	25.3	8.7	1.63		11.0	6.9	0.3	0.91	16.9	12.5	5.9	5.2	0.80	1.03	0.99	1.00	0.55	0.93	1.71	0.72	1.83				0.00	0.00
37.30	37.22	1.08	0.36	74.3	26.3	9.1	1.49		13.5	6.6	0.3	0.91	19.6	12.2	5.9	4.9	0.80	1.03	0.99	1.00	0.55	1.30		0.72	1.71				0.00	0.00
37.40	37.34	1.19	0.40	76.4	27.2	9.5	1.36		12.5	6.3	0.3	0.90	18.6	11.9	5.9	4.6	0.80	1.03	0.99	1.00	0.55	1.30		0.72	1.61				0.00	0.00
37.50	37.47	1.41	0.47	78.4	28.1	9.8	1.26		11.7	6.0	0.2	0.90	17.6	11.5	5.8	4.3	0.80	1.03	0.99	1.00	0.55	1.30		0.73	1.52				0.00	0.00
37.70	37.62	1.63	0.54	80.1	28.9	10.1	1.17		11.0	5.7	0.2	0.90	16.9	11.2	5.8	4.1	0.80	1.03	0.99	1.00	0.55	1.30		0.73	1.45				0.00	0.00
37.80	37.76	1.66	0.55	80.3	29.0	10.2	1.16		10.9	5.7	0.2	0.90	16.8	11.1	5.8	4.0	0.80	1.03	0.99	1.00	0.55	1.30		0.73	1.44				0.00	0.00
37.90	37.88	1.80	0.60	81.3	29.5	10.4	1.11		10.6	5.6	0.2	0.90	16.4	11.0	5.8	3.9	0.80	1.03	0.99	1.00	0.55	1.30		0.73	1.41				0.00	0.00
38.10	38.02	2.03	0.68	82.7	30.2	10.6	1.05		10.1	5.4	0.2	0.90	15.9	10.8	5.8	3.7	0.80	1.03	0.99	1.00	0.55	1.30		0.73	1.36				0.00	0.00
38.20	38.15	2.37	0.79	84.5	31.1	11.0	0.97		9.5	5.2	0.2	0.90	15.2	10.5	5.8	3.5	0.80	1.03	0.99	1.00	0.55	1.30		0.74	1.29				0.00	0.00
38.30	38.26	2.76	0.92	86.3	32.0	11.4	0.90		8.9	5.0	0.2	0.90	14.6	10.3	5.8	3.4	0.79	1.03	0.99	1.00	0.55	1.30		0.74	1.24				0.00	0.00
38.50	38.40	3.07	1.02	87.6	32.7	11.6	0.86		8.6	4.8	0.2	0.89	14.2	10.1	5.7	3.2	0.79	1.03	0.99	1.00	0.55	1.30		0.74	1.20				0.00	0.00
38.60	38.54	2.68	0.89	86.0	31.9	11.3	0.91		9.1	4.9	0.2	0.89	14.7	10.2	5.8	3.3	0.79	1.03	0.99	1.00	0.55	1.30		0.74	1.25				0.00	0.00
38.70	38.67	2.77	0.92	86.4	32.1	11.4	0.90		9.0	4.8	0.2	0.89	14.6	10.1	5.8	3.2	0.79	1.03	0.99	1.00	0.55	1.30		0.74	1.24				0.00	0.00
38.90	38.79	2.88	0.96	86.8	32.3	11.5	0.88		8.9	4.8	0.2	0.89	14.5	10.1	5.8	3.2	0.79	1.03	0.99	1.00	0.55	1.30		0.74	1.23				0.00	0.00
39.00	38.92	2.89	0.96	86.9	32.3	11.5	0.88		8.9	4.7	0.2	0.89	14.5	10.1	5.8	3.1	0.79	1.03	0.99	1.00	0.55	1.30		0.75	1.23				0.00	0.00
39.10	39.05	2.88	0.96	86.9	32.3	11.5	0.88		6.7	4.7	0.2	0.89	12.1	10.0	5.8	3.1	0.79	1.03	0.99	1.00	0.55	1.30		0.75	1.23				0.00	0.00
39.30	39.19	2.66	0.89	85.9	31.8	11.3	0.91		6.9	4.8	0.2	0.89	12.3	10.1	5.8	3.2	0.79	1.03	0.99	1.00	0.55	1.30		0.75	1.27				0.00	0.00
39.40	39.32	2.29	0.76	84.1	30.9	10.9	0.98		7.4	5.0	0.2	0.89	12.8	10.4	5.8	3.4	0.79	1.03	0.99	1.00	0.55	1.30		0.75	1.33				0.00	0.00
39.50	39.44	1.79	0.60	81.1	29.4	10.3	1.11		8.2	5.5	0.2	0.88	13.7	10.8	5.8	3.7	0.79	1.03	0.99	1.00	0.55	1.30		0.75	1.45				0.00	0.00
39.70	39.58	1.13	0.38	75.1	26.7	9.2	1.41		10.1	6.4	0.3	0.88	15.7	11.7	5.9	4.4	0.79	1.03	0.99	1.00	0.55	0.81	1.48	0.75	1.73				0.00	0.00
39.80	39.72	1.03	0.34	72.9	25.7	8.9	1.54		11.0	6.8	0.3	0.88	16.7	12.2	5.9	4.7	0.79	1.03	0.99	1.00	0.55	0.88	1.61	0.76	1.85				0.00	0.00
39.90	39.84	1.06	0.35	73.7	26.1	9.0	1.49		10.7	6.6	0.3	0.88	16.3	12.0	5.9	4.6	0.78	1.03	0.99	1.00	0.55	0.85	1.56	0.76	1.81				0.00	0.00
40.00	39.96	1.17	0.39	75.9	27.0	9.4	1.36		9.9	6.3	0.3	0.88	15.5	11.6	5.9	4.3	0.78	1.03	0.99	1.00	0.55	0.78	1.43	0.76	1.69				0.00	0.00
40.20	40.10	1.31	0.44	77.3	27.6	9.6	1.29		9.4	6.1	0.2	0.88	15.0	11.4	5.9	4.2	0.78	1.03	0.99	1.00	0.55	0.74	1.35	0.76	1.63				0.00	0.00
40.30	40.23	1.41	0.47	78.1	28.0	9.8	1.24		9.2	6.0	0.2	0.88	14.7	11.3	5.8	4.1	0.78	1.03	0.99	1.00	0.55	0.71	1.30	0.76	1.60				0.00	0.00
40.40	40.36	1.34	0.45	77.5	27.7	9.7	1.27		9.4	6.1	0.2	0.88	14.9	11.4	5.9	4.1	0.78	1.03	0.99	1.00	0.55	0.73	1.33	0.76	1.63				0.00	0.00
40.60	40.50	1.23	0.41	76.4	27.2	9.5	1.33		9.8	6.3	0.3	0.88	15.3	11.7	5.9	4.3	0.78	1.03	0.99	1.00	0.55	0.76	1.39	0.77	1.68				0.00	0.00
40.70	40.62	1.11	0.37	74.6	26.4	9.2	1.43		10.5	6.7	0.3	0.87	16.0	12.0	5.9	4.6	0.78	1.03	0.99	1.00	0.55	0.82	1.50	0.77	1.78				0.00	0.00
40.80	40.75	1.12	0.37	74.7	26.5	9.2	1.43		10.5	6.7	0.3	0.87	16.0	12.0	5.9	4.6	0.78	1.03	0.98	1.00	0.55	0.81	1.49	0.77	1.78				0.00	0.00
40.90	40.88	1.23	0.41	76.4	27.2	9.5	1.33		9.9	6.4	0.3	0.87	15.3	11.7	5.9	4.3	0.78	1.03	0.98	1.00	0.54	0.76	1.39	0.77	1.69				0.00	0.00
41.10	41.02	1.38	0.46	77.8	27.8	9.7	1.25		9.4	6.2	0.2	0.87	14.8	11.4	5.9	4.1	0.78	1.03	0.98	1.00	0.54	1.30		0.77	1.63				0.00	0.00
41.20	41.16	1.38	0.46	77.8	27.8	9.7	1.25		9.4	6.2	0.2	0.87	14.8	11.4	5.9	4.1	0.78	1.03	0.98	1.00	0.54	0.72	1.31	0.77	1.63				0.00	0.00
41.30	41.28	1.38	0.46	77.7	27.8	9.7	1.25		9.4	6.2	0.2	0.87	14.8	11.5	5.9	4.1	0.78	1.03	0.98	1.00	0.54	1.30		0.78	1.64				0.00	0.00
41.50	41.41	1.56	0.52	79.1	28.5	10.0	1.18		12.0	6.1	0.2	0.87	17.5	11.4	5.8	4.0	0.77	1.03	0.98	1.00	0.54	1.30		0.78	1.58				0.00	0.00
41.60	41.55	0.58	0.06	59.4	20.6	6.9	0.34	55.9	14.9	9.5	0.8	0.87	19.6	14.2	6.1	21.9	0.77	1.08	0.97	1.00	0.53	0.12	2.00	0.78	0.79				0.00	0.00
41.70	41.67	0.99	0.33	71.4	25.1	8.6	1.61		15.9	7.7	0.3	0.87	21.5	13.0	5.9	5.2	0.77	1.03	0.98	1.00	0.54	0.92	2.00	0.78	1.99				0.00	0.00
41.90	41.80	0.45	0.04	52.9	18.5	6.1	0.40	59.7	24.0	12.0	2.0	0.86	28.1	16.2	7.3	25.0	0.77	1.09	0.97	1.00	0.52	0.14	2.00	0.78	0.85				0.00	0.00
42.00	41.93	0.77	0.26	65.5	22.7	7.7	2.05		19.9	9.3	0.4	0.86	25.6	14.6	6.0	6.4	0.77	1.03	0.98	1.00	0.54	1.17	2.00	0.79	2.42				0.00	0.00
42.20	42.07	0.40	0.04	50.3	17.7	5.9	0.42	61.7	26.7	13.4	2.7	0.86	30.9	17.8	8.0	29.2	0.77	1.11	0.96	1.00	0.52	0.14	2.00	0.79	0.87				0.00	0.00
42.30	42.21	0.35	0.12	46.8	16.7	5.5	0.45	63.2	24.5	14.5	3.9	0.86	27.3	17.8	8.8	25.0	0.77	1.12	0.96	1.00	0.51	0.15	2.00	0.79	0.91				0.00	0.00
42.40	42.33	0.78	0.26	65.6	22.8	7.8	2.03		19.9	9.3	0.4	0.86	25.5	14.6	6.0	6.3	0.77	1.03	0.98	1.00	0.54	1.16	2.00	0.79	2.42				0.00	0.00
42.50	42.47	0.87	0.29	68.2	23.8	8.1	1.82		18.1	8.8	0.3	0.86	23.6	14.0	6.0	5.9	0.77	1.03	0.98	1.00	0.54	1.04	2.00	0.79	2.23				0.00	0.00
42.70	42.60	0.92	0.31	69.5	24.3	8.3	1.73		17.3	8.5	0.3	0.86	22.8	13.7	5.9	5.7	0.77	1.03	0.98	1.00	0.54	1.30		0.79	2.14				0.00	0.00
42.80	42.72	0.97	0.32	70.7	24.8	8.5	1.64		24.9	8.3	0.3	0.86	30.5	13.5	5.9	5.5	0.77	1.03	0.98	1.00	0.54	1.30		0.80	2.07				0.00	0.00
42.90	42.85	1.06	0.35	72.7	25.6	8.8	1.52		23.2	7.9	0.3	0.85	28.7	13.1	5.9	5.2	0.77	1.03	0.98	1.00	0.54	1.30		0.80	1.95				0.00	0.00
43.00	42.98	1.14	0.38	74.5	26.4	9.1	1.41		21.8	7.5	0.3	0.85	27.3	12.7	5.9	4.9	0.76	1.03	0.98	1.00	0.54	1.30		0.80	1.85				0.00	0.00
43.20	43.12	1.13	0.38	74.4	26.4	9.1	1.41		21.9	7.5	0.3	0.85	27.3	12.7	5.9	4.9	0.76	1.03	0.98	1.00	0.54	1.30		0.80	1.86				0.00	0.00
43.30	43.26	1.12	0.37	74.3	26.3	9.1	1.42		14.7	7.4	0.3	0.85	20.0	12.5	5.9	4.8	0.76	1.03	0.98	1.00	0.54	1.30		0.80	1.87				0.00	0.00
43.40	43.38	1.17	0.39	75.2	26.7	9.3	1.36		14.2	7.1	0.3	0.85	19.5	12.2	5.9	4.6	0.76	1.03	0.98	1.00	0.54	1.30		0.80	1.82				0.00	0.00
43.60	43.52	1.43	0.48	77.7	27.8	9.7	1.23		13.1	6.7	0.2	0.85	18.3	11.9	5.8	4.3	0.76	1.03	0.98	1.00	0.54	1.30		0.81	1.70				0.00	0.00
43.70	43.65	1.59	0.53	78.9	28.4	9.9	1.17		12.5	6.5	0.2	0.85	17.7	11.6	5.8	4.1	0.76	1.03	0.98	1.00	0.54	1.30		0.81	1.64				0.00	0.00
43.80	43.78	1.65	0.55	79.4	28.6	10.0	1.15		12.3	6.4	0.2	0.85	17.5	11.5	5.8	4.0	0.76	1.03	0.98	1.00	0.54	1.30		0.81	1.62				0.00	0.00
44.00	43.91	1.84	0.61	80.7	29.2	10.2	1.09		11.8	6.1	0.2	0.85	17.0	11.2	5.8	3.8	0.76	1.03	0.98	1.00	0.54	1.30		0.81	1.57				0.00	0.00
44.10	44.05	1.80	0.60	80.5	29.1	10.2	1.10		8.9	6.0	0.2	0.84	14.0	11.1	5.8	3.7	0.76	1.03	0.98	1.00	0.54	1.30		0.81	1.58				0.00	0.00
44.20	44.18	1.66	0.55	79.5	28.7	10.0	1.14		9.2	6.2	0.2	0.84	14.4	11.2	5.8	3.8	0.76	1.03	0.98	1.00	0.54	1.30		0.81	1.63				0.00	0.00
44.40	44.30	1.64	0.55	79.3	28.6	10.0	1.15		9.3	6.3	0.2	0.84	14.4	11.3	5.8	3.9	0.76	1.03	0.98	1.00	0.54	1.30		0.82	1.64				0.00	0.00
44.50	44.44	1.51	0.50	78.4	28.1	9.8	1.19		9.7	6.4	0.2	0.84	14.7	11.4	5.8	3.9	0.76	1.03	0.98	1.00	0.54	1.30		0.82	1.68				0.00	0.00
44.60	44.56	1.42	0.47	77.6	27.8	9.7	1.23		9.9	6.4	0.2	0.84	15.0	11.5	5.9	4.0	0.75	1.03	0.98	1.00	0.54	0.70	1.30	0.82	1.72				0.00	0.00
44.80	44.69	1.39	0.46	77.4	27.7	9.6	1.24		10.0	6.4	0.2	0.84	15.1	11.5	5.9	4.0	0.75	1.03	0.98	1.00	0.54	0.71	1.31	0.82	1.74				0.00	0.00
44.90	44.83	1.41	0.47	77.6	27.8	9.7	1.23		10.0	6.4	0.2	0.84	15.0	11.5	5.9	4.0	0.75	1.03	0.98	1.00	0.54	0.70	1.30	0.82	1.73				0.00	0.00
45.00	44.97	1.44	0.48	77.8	27.9	9.7	1.22		9.9	6.4	0.2	0.84	15.0	11.5	5.9	4.0	0.75	1.03	0.98	1.00	0.54	0.69	1.29	0.82	1.73				0.00	0.00
45.20	45.10	1.43	0.48	77.6	27.8	9.7	1.22		10.0	6.5	0.2	0.84	15.0	11.5	5.9	4.0	0.75	1.03	0.98	1.00	0.54	0.70	1.30	0.83	1.74				0.00	0.00
45.30	45.22	1.37	0.46	77.2	27.6	9.6	1.24		10.2	6.6	0.2	0.84	15.2	11.6	5.9	4.1	0.75	1.03	0.98	1.00	0.54	0.71	1.32	0.83	1.76				0.00	0.00
45.40	45.35	1.32	0.44	76.6	27.3	9.5	1.27		10.4	6.8	0.2	0.83	15.4	11.8	5.9	4.1	0.75	1.03	0.98	1.00	0.54	0.73	1.35	0.83	1.79				0.00	0.00

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Z_b (ft)	Z_m (ft)	$C_c/(1+e_0)$(%)	$C_r/(1+e_0)$(%)	μ_{FC}	μ_{LL}	μ_{PI}	K_0	D_R (%)	$N_{60L\&B}$	$(N_{60})_{Ic}$	$(N_1)_{60I\&B}$	C_N	$(N_1)_{60csL\&R}$	$(N_1)_{60csIc}$	$(N_1)_{60csI\&B}$	$(N_1)_{60qc1ncs}$	r_d	MSF	K_σ	K_α	$CSR_{7.5}$	$CRR_{7.5}$	FS	τ_{av} (tsf)	p'(tsf)	γ_{max} (%)	G/G_0	ε_v (%)	ΔS_i	ΣS_i (in)
45.50	45.48	1.26	0.42	76.1	27.1	9.4	1.30		10.6	6.9	0.3	0.83	15.6	11.9	5.9	4.2	0.75	1.03	0.98	1.00	0.54	0.74	1.38	0.83	1.83				0.00	0.00
45.70	45.61	1.16	0.39	75.0	26.6	9.2	1.35		11.0	7.0	0.3	0.83	16.0	12.0	5.9	4.3	0.75	1.03	0.98	1.00	0.54	0.77	1.44	0.83	1.89				0.00	0.00
45.80	45.74	1.25	0.42	76.0	27.1	9.4	1.30		10.7	6.7	0.3	0.83	15.6	11.7	5.9	4.1	0.75	1.03	0.98	1.00	0.54	0.74	1.38	0.83	1.83				0.00	0.00
45.90	45.87	1.39	0.46	77.4	27.7	9.6	1.23		10.2	6.5	0.2	0.83	15.2	11.5	5.9	3.9	0.75	1.03	0.98	1.00	0.54	0.70	1.31	0.83	1.77				0.00	0.00
46.10	46.01	1.36	0.45	77.1	27.5	9.6	1.24		8.2	6.4	0.2	0.83	13.2	11.4	5.9	3.9	0.75	1.03	0.98	1.00	0.54	0.71	1.32	0.84	1.78				0.00	0.00
46.20	46.14	1.28	0.43	76.5	27.3	9.5	1.27		8.4	6.3	0.2	0.83	13.4	11.3	5.9	3.8	0.74	1.03	0.98	1.00	0.54	0.72	1.35	0.84	1.82				0.00	0.00
46.30	46.26	1.28	0.43	76.4	27.2	9.5	1.27		8.5	6.5	0.2	0.83	13.4	11.5	5.9	3.9	0.74	1.03	0.98	1.00	0.54	0.73	1.35	0.84	1.82				0.00	0.00
46.50	46.40	1.03	0.34	72.2	25.4	8.8	1.51		9.9	7.5	0.3	0.83	14.8	12.4	5.9	4.6	0.74	1.03	0.98	1.00	0.54	0.86	1.61	0.84	2.07				0.00	0.00
46.60	46.53	0.92	0.31	69.3	24.2	8.3	1.69		11.0	8.3	0.3	0.83	15.9	13.2	5.9	5.1	0.74	1.03	0.98	1.00	0.54	0.97	1.81	0.84	2.27				0.00	0.00
46.70	46.66	0.84	0.28	67.1	23.3	8.0	1.85		14.9	9.1	0.4	0.82	19.8	14.0	6.0	5.6	0.74	1.03	0.98	1.00	0.54	1.06	1.97	0.84	2.44				0.00	0.00
46.90	46.80	0.80	0.27	66.0	22.9	7.8	1.93		15.6	9.5	0.4	0.82	20.4	14.4	6.0	5.9	0.74	1.03	0.98	1.00	0.54	1.10	2.00	0.84	2.53				0.00	0.00
47.00	46.94	0.74	0.25	64.0	22.2	7.5	2.09		16.8	10.0	0.4	0.82	21.6	14.9	6.0	6.3	0.74	1.03	0.98	1.00	0.54	1.20	2.00	0.85	2.70				0.00	0.00
47.10	47.06	0.73	0.24	63.5	22.0	7.5	2.13		17.1	10.2	0.4	0.82	21.8	15.0	6.0	6.4	0.74	1.03	0.98	1.00	0.54	1.22	2.00	0.85	2.75				0.00	0.00
47.30	47.19	0.70	0.23	62.6	21.7	7.3	2.20		17.7	10.5	0.4	0.82	22.4	15.4	6.0	6.6	0.74	1.03	0.98	1.00	0.54	1.26	2.00	0.85	2.84				0.00	0.00
47.40	47.32	0.70	0.23	62.6	21.7	7.3	2.21		17.8	10.7	0.4	0.82	22.5	15.5	6.0	6.6	0.74	1.03	0.98	1.00	0.54	1.26	2.00	0.85	2.85				0.00	0.00
47.50	47.44	0.67	0.22	61.6	21.3	7.2	2.29		18.5	11.0	0.4	0.82	23.1	15.8	6.0	6.9	0.74	1.03	0.97	1.00	0.53	1.30	2.00	0.85	2.94				0.00	0.00
47.70	47.58	0.68	0.23	61.9	21.4	7.2	2.26		18.3	11.0	0.4	0.82	22.9	15.8	6.0	6.8	0.74	1.03	0.97	1.00	0.53	1.29	2.00	0.85	2.92				0.00	0.00
47.80	47.71	0.69	0.23	62.1	21.5	7.3	2.24		18.2	11.0	0.4	0.82	22.8	15.7	6.0	6.8	0.73	1.03	0.97	1.00	0.53	1.28	2.00	0.86	2.90				0.00	0.00
47.90	47.84	0.70	0.23	62.4	21.6	7.3	2.21		18.0	10.9	0.4	0.82	22.6	15.7	6.0	6.7	0.73	1.03	0.97	1.00	0.53	1.26	2.00	0.86	2.88				0.00	0.00
48.00	47.97	0.73	0.24	63.3	21.9	7.4	2.13		17.4	10.7	0.4	0.81	22.0	15.4	6.0	6.5	0.73	1.03	0.97	1.00	0.53	1.22	2.00	0.86	2.80				0.00	0.00
48.20	48.10	0.74	0.25	63.7	22.1	7.5	2.09		17.2	10.5	0.4	0.81	21.8	15.3	6.0	6.4	0.73	1.03	0.97	1.00	0.53	1.20	2.00	0.86	2.77				0.00	0.00
48.30	48.23	0.77	0.26	64.7	22.5	7.6	2.01		16.6	10.2	0.4	0.81	21.2	15.0	6.0	6.2	0.73	1.03	0.98	1.00	0.53	1.15	2.00	0.86	2.69				0.00	0.00
48.40	48.37	0.85	0.28	67.1	23.3	8.0	1.83		15.2	9.6	0.3	0.81	19.8	14.3	6.0	5.7	0.73	1.03	0.98	1.00	0.53	1.04	1.96	0.86	2.50				0.00	0.00
48.60	48.51	0.94	0.31	69.3	24.2	8.3	1.67		14.1	8.9	0.3	0.81	18.7	13.7	5.9	5.3	0.73	1.03	0.98	1.00	0.53	0.95	1.79	0.87	2.33				0.00	0.00
48.70	48.64	1.04	0.35	71.8	25.3	8.7	1.50		12.8	8.3	0.3	0.81	17.5	13.0	5.9	4.9	0.73	1.03	0.98	1.00	0.53	0.86	1.62	0.87	2.16				0.00	0.00
48.80	48.77	1.05	0.35	72.0	25.3	8.7	1.49		12.8	8.1	0.3	0.81	17.4	12.9	5.9	4.7	0.73	1.03	0.98	1.00	0.53	0.85	1.60	0.87	2.15				0.00	0.00
49.00	48.91	1.04	0.35	72.1	25.4	8.7	1.49		12.8	8.0	0.3	0.81	17.4	12.7	5.9	4.6	0.73	1.03	0.98	1.00	0.53	0.85	1.60	0.87	2.15				0.00	0.00
49.10	49.04	1.05	0.35	72.2	25.4	8.8	1.48		12.7	7.9	0.3	0.81	17.3	12.6	5.9	4.6	0.73	1.03	0.98	1.00	0.53	0.84	1.59	0.87	2.15				0.00	0.00
49.20	49.16	1.05	0.35	72.2	25.4	8.8	1.48		10.2	7.9	0.3	0.81	14.9	12.6	5.9	4.6	0.73	1.03	0.98	1.00	0.53	0.84	1.59	0.87	2.15				0.00	0.00
49.40	49.30	1.07	0.36	72.7	25.6	8.8	1.44		10.0	7.8	0.3	0.80	14.7	12.5	5.9	4.5	0.73	1.03	0.98	1.00	0.53	0.83	1.56	0.87	2.12				0.00	0.00
49.50	49.42	1.11	0.37	73.6	26.0	9.0	1.39		9.7	7.6	0.3	0.80	14.4	12.3	5.9	4.4	0.72	1.03	0.98	1.00	0.53	0.80	1.51	0.88	2.07				0.00	0.00
49.60	49.55	1.17	0.39	74.8	26.5	9.2	1.33		11.7	7.4	0.3	0.80	16.3	12.1	5.9	4.2	0.72	1.03	0.98	1.00	0.53	0.76	1.43	0.88	2.00				0.00	0.00
49.80	49.68	1.18	0.39	74.9	26.5	9.2	1.32		11.7	7.4	0.3	0.80	16.2	12.1	5.9	4.2	0.72	1.03	0.98	1.00	0.53	0.76	1.43	0.88	2.00				0.00	0.00
49.90	49.81	1.17	0.39	74.7	26.5	9.2	1.33		9.4	7.4	0.3	0.80	14.0	12.1	5.9	4.2	0.72	1.03	0.98	1.00	0.53	0.76	1.44	0.88	2.01				0.00	0.00
50.00	49.95	1.18	0.39	74.9	26.6	9.2	1.32		9.4	7.3	0.3	0.80	14.0	12.0	5.9	4.1	0.72	1.03	0.98	1.00	0.53	0.75	1.43	0.88	2.01				0.00	0.00

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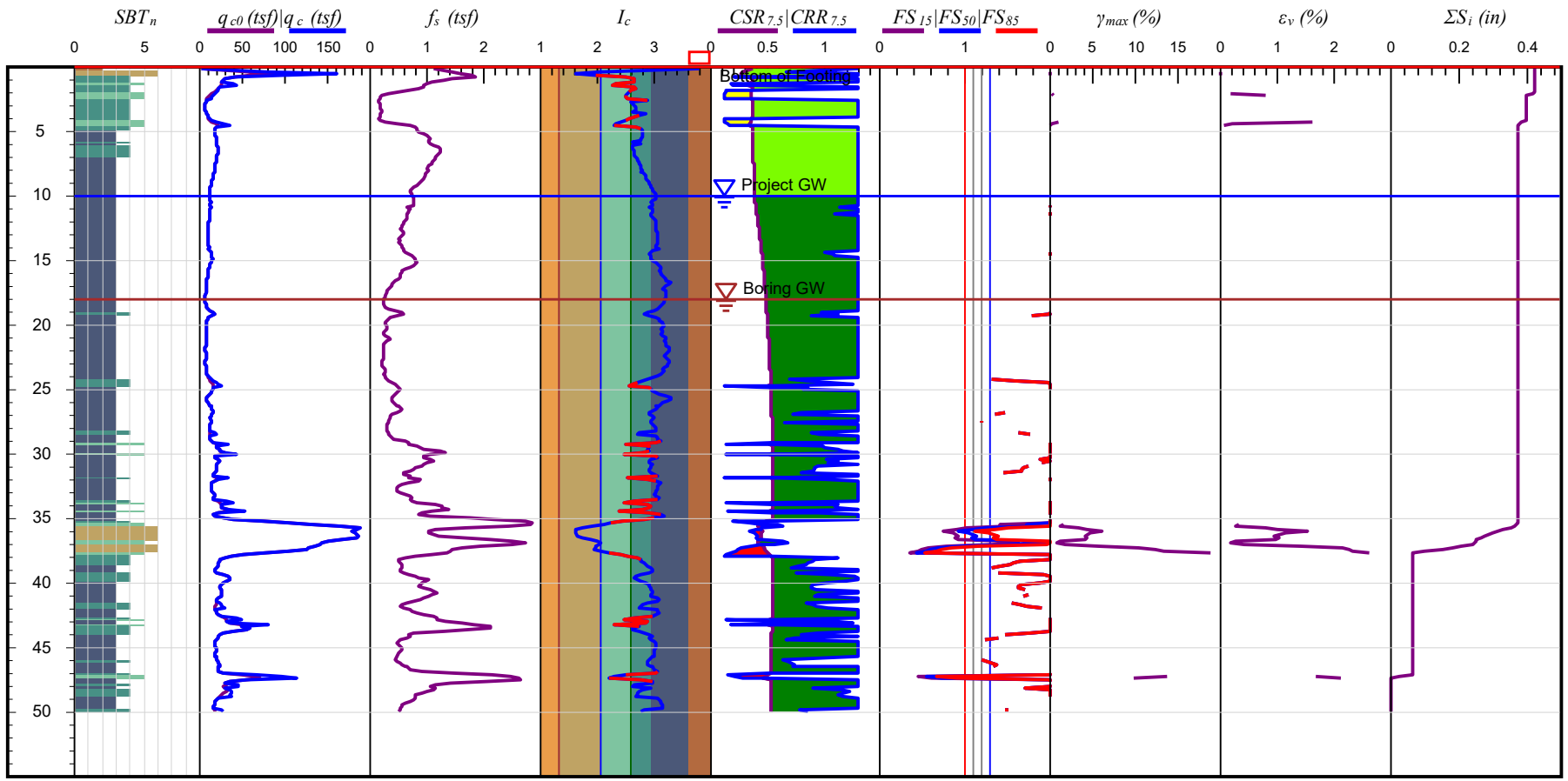

Sensitive fine grained
Organic soils - peats
Clay to silty clay
Silty clay to clayey silt
Sandy silt to silty sand
Silty sand to clean sand
Dense sand to gravelly sand
Clayey sand to very stiff sand
Very stiff fine grained *

* Overconsolidated or cemented

Silt Correction:
$K=(1\text{-}FC)^{0.75}$

Earthquake & Groundwater Information:
Magnitude = 6.51
Max. Acceleration = 0.648 g
Project GW = 10 ft
Maximum Settlement = 0.42 in
Settl. at Bottom of Footing = 0.42 in

Liquefaction: Boulanger & Idriss (2010-16)
Settl.: [dry] Pradel (1998); [sat] Idriss & Boulanger (2008)
Lateral spreading: Idriss & Boulanger (2008)
M correction: [Sand; Clay] Boulanger & Idriss(2004)
σv correction: Idriss & Boulanger (2008)
Stress reduction: Idriss & Boulanger (2008)

GORIAN & ASSOCIATES, INC

Seismic Settlement Potential - CPT Data

Project:	Canoga Park High School Modernization				
Location:	6850 Topanga Canyon Blvd.				
Project No.:	2880-83-3-100	CPT No.:	CPT-17	Figure:	2

X:\2880-0-0-LA Unified Sch Dist-Master File\2880-83 Canoga Park High Sch\2880-83-3 Comprensive Modernization\Seismic Settlement\GeoSuite_2880-83-3-100_CPT-17.csv

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Prepared at 1/19/2022 3:49:04 PM

Z_b (ft)	Z_m (ft)	q_c (tsf)	f_s (tsf)	u_2 (tsf)	q_t (tsf)	R_f	SBT	γ (pcf)	σ_{v0} (tsf)	σ_{v0}' (tsf)	Q_t	Q_{tn}	F_R	SBT_n	I_c	q_{c1N}	K_c	$Q_{m,cs}$	$(SBT)_{Ic}$	B_q	$(SBT)_{Bq}$	F_C (%)	c	R	V_s (ft/s)	G_0 (tsf)	E' (tsf)	M (tsf)	σ_p' (tsf)	OCR	S_t	S_u (tsf)	S_u/σ_{v0}'	φ (°)	c' (tsf)
0.30	0.14	2.5	1.12	0.01	2.5	44.46	2	117	0.01	0.01	9.5	4.1	44.58	2	3.80	4.1	0.00	4.1	2	0.00	1	100.00	0.55	273.9	388.6	274		10	0.84	1.4	0.2	0.18	0.29	24.3	0.18
0.40	0.34	78.7	1.44	0.01	78.7	12.60	12	142	0.02	0.02	297.5	126.4	1.83	6	2.02	126.5	1.31	177.3	6	0.00	1	13.40	0.39	273.5	701.9	1,085	726	1,453	0.12	6.0				40.7	0.00
0.50	0.47	161.0	1.59	0.02	161.0	1.45	8	133	0.03	0.03	608.7	258.7	0.99	6	1.61	258.7	1.00	258.7	6	0.00	1	4.52	0.36	273.4	775.8	1,240	887	1,775	0.29	9.9				44.1	0.01
0.70	0.60	95.4	1.78	0.02	95.4	2.99	6	133	0.04	0.04	360.6	153.3	1.87	6	1.97	153.3	1.25	198.9	6	0.00	1	12.10	0.40	273.5	749.4	1,159	828	1,656	0.26	6.9				41.6	0.01
0.80	0.74	41.1	1.84	0.03	41.1	4.56	4	128	0.05	0.05	155.2	66.0	4.49	4	2.50	66.0	2.73	134.1	5	0.00	1	30.49	0.45	273.6	686.7	934	695	575	0.16	3.5				37.6	0.00
0.90	0.87	29.0	1.45	0.04	29.0	5.00	3	125	0.06	0.06	109.6	46.6	5.01	4	2.63	46.7	0.00	46.7	4	0.00	1	36.96	0.47	273.7	629.1	767		406	9.66	15.5	1.4	2.07	3.33	36.0	2.07
1.10	1.00	26.7	1.29	0.04	26.7	4.83	3	124	0.06	0.06	100.6	42.7	4.84	4	2.65	42.8	0.00	42.8	4	0.00	1	37.72	0.48	273.7	608.5	711		372	8.87	14.2	1.5	1.90	3.05	35.5	1.90
1.20	1.14	25.1	1.09	0.04	25.1	4.34	4	122	0.07	0.07	94.6	40.2	4.35	4	2.63	40.3	0.00	40.3	4	0.00	1	36.96	0.49	273.8	584.7	649		350	8.34	13.4	1.6	1.79	2.87	35.2	1.79
1.30	1.27	39.0	0.99	0.04	39.0	3.75	5	125	0.08	0.08	147.0	62.5	2.55	5	2.33	62.6	2.05	125.0	5	0.00	1	23.77	0.47	273.7	602.8	709	536	544	0.27	3.3				37.4	0.01
1.40	1.39	42.3	0.95	0.03	42.3	3.65	5	126	0.09	0.09	159.4	67.8	2.24	5	2.27	67.9	1.84	129.1	5	0.00	1	21.42	0.47	273.7	603.1	713	536	590	0.31	3.6				37.7	0.01
1.60	1.51	22.9	0.94	0.03	22.9	4.11	4	121	0.09	0.09	86.3	36.7	4.12	4	2.64	36.8	0.00	36.8	4	0.00	1	37.56	0.50	273.8	562.4	594		320	7.61	12.2	1.7	1.63	2.62	34.8	1.63
1.70	1.64	21.0	0.85	0.03	21.0	4.06	4	120	0.10	0.10	78.9	33.5	4.08	4	2.67	33.7	0.00	33.7	4	0.00	1	38.83	0.51	273.8	546.3	556		292	6.96	11.2	1.7	1.49	2.39	34.4	1.49
1.80	1.78	21.2	0.68	0.03	21.2	3.41	5	119	0.11	0.11	79.7	33.9	3.25	4	2.60	34.1	3.30	94.8	5	0.00	1	35.28	0.51	273.8	525.3	509	407	295	0.20	1.8				34.4	0.00
2.00	1.91	20.2	0.51	0.03	20.2	2.83	5	117	0.12	0.12	76.0	32.3	2.54	4	2.54	32.5	2.99	91.8	5	0.00	1	32.72	0.52	273.8	495.5	446	362	281	0.20	1.7				34.2	0.00
2.10	2.04	17.1	0.33	0.02	17.1	2.35	5	114	0.13	0.13	64.1	27.2	1.97	5	2.53	27.4	2.93	85.2	5	0.00	1	32.23	0.53	273.9	452.0	361	301	237	0.17	1.4				33.4	0.00
2.30	2.18	15.0	0.22	0.01	15.0	1.92	5	111	0.13	0.13	56.2	23.9	1.46	5	2.51	24.1	2.78	80.4	5	0.00	1	30.96	0.54	273.9	415.8	298	255	208	0.16	1.2				32.8	0.00
2.40	2.32	13.8	0.18	0.01	13.8	1.90	5	110	0.14	0.14	51.6	21.9	1.31	5	2.51	22.1	2.80	78.0	5	0.00	1	31.11	0.55	273.9	399.3	272	235	191	0.15	1.0				32.4	0.00
2.50	2.44	13.0	0.16	0.00	13.0	2.07	5	110	0.15	0.15	48.5	20.6	1.29	5	2.53	20.8	2.90	76.6	5	0.00	1	31.99	0.55	273.9	391.8	262	226	179	0.15	0.9				32.1	0.00
2.60	2.57	7.3	0.16	0.00	7.3	2.22	4	105	0.16	0.16	26.8	11.4	2.27	4	2.87	11.6	0.00	11.6	4	0.00	1	50.42	0.59	274.0	362.8	214		81	2.36	3.8	3.1	0.51	0.81	29.2	0.51
2.80	2.72	7.0	0.16	0.00	7.0	2.30	4	105	0.16	0.16	25.9	11.0	2.36	4	2.60	11.3	0.00	11.3	4	0.00	1	35.42	0.60	274.0	299.7	146		75	2.28	3.7	3.0	0.49	0.79	29.1	0.49
2.90	2.84	6.8	0.16	0.01	6.8	2.43	4	105	0.17	0.17	24.9	10.6	2.49	4	2.63	10.9	0.00	10.9	4	0.00	1	36.80	0.60	274.1	299.4	146		70	2.20	3.5	2.8	0.47	0.76	28.9	0.47
3.00	2.96	6.6	0.17	0.01	6.6	2.58	4	105	0.18	0.18	24.4	10.4	2.65	4	2.65	10.6	0.00	10.6	4	0.00	1	38.01	0.60	274.1	300.6	147		67	2.15	3.5	2.7	0.46	0.74	28.8	0.46
3.20	3.09	6.4	0.18	0.01	6.4	2.74	4	105	0.18	0.18	23.6	10.0	2.82	4	2.68	10.3	0.00	10.3	4	0.00	1	39.47	0.61	274.1	301.1	148		63	2.08	3.3	2.5	0.45	0.72	28.6	0.45
3.30	3.22	6.4	0.18	0.01	6.4	2.83	3	105	0.19	0.19	23.6	10.0	2.91	4	2.69	10.3	0.00	10.3	4	0.00	1	39.94	0.61	274.1	302.6	150		62	2.08	3.3	2.4	0.45	0.72	28.6	0.45
3.40	3.36	6.7	0.19	0.02	6.7	2.90	3	106	0.20	0.20	24.5	10.4	2.98	4	2.68	10.7	0.00	10.7	4	0.00	1	39.61	0.61	274.1	307.1	155		67	2.16	3.5	2.4	0.46	0.74	28.8	0.46
3.60	3.49	7.3	0.19	0.02	7.3	2.66	4	106	0.20	0.20	26.7	11.3	2.73	4	2.63	11.6	0.00	11.6	4	0.00	1	36.88	0.60	274.1	309.9	158		80	2.35	3.8	2.6	0.50	0.81	29.2	0.50
3.70	3.62	8.1	0.19	0.02	8.1	2.33	4	106	0.21	0.21	29.9	12.7	2.38	4	2.84	13.0	0.00	13.0	4	0.00	1	48.63	0.60	274.1	376.0	233		101	2.64	4.2	3.0	0.57	0.91	29.7	0.57
3.80	3.76	9.5	0.18	0.02	9.5	1.90	5	106	0.22	0.22	35.1	14.9	1.91	4	2.73	15.3	0.00	15.3	4	0.00	1	42.30	0.59	274.0	379.9	238		130	3.10	5.0	3.7	0.66	1.07	30.5	0.66
4.00	3.90	10.6	0.16	0.02	10.6	1.65	5	106	0.23	0.23	39.3	16.7	1.58	4	2.65	17.0	0.00	17.0	4	0.00	1	37.86	0.58	274.0	380.8	239		145	3.46	5.6	4.5	0.74	1.19	31.0	0.74
4.10	4.02	12.1	0.16	0.01	12.1	1.52	5	107	0.23	0.23	44.7	19.0	1.36	4	2.57	19.4	3.12	75.3	5	0.00	1	33.82	0.57	274.0	385.8	247	220	166	0.23	0.8				31.7	0.00
4.20	4.14	13.9	0.17	0.00	13.9	1.48	6	108	0.24	0.24	51.5	21.9	1.25	5	2.50	22.3	2.74	77.9	5	0.00	1	30.56	0.57	274.0	395.8	263	231	191	0.25	1.0				32.3	0.00
4.30	4.28	19.0	0.27	0.00	19.0	1.89	6	113	0.25	0.25	70.9	30.1	1.45	5	2.42	30.5	2.38	86.8	5	0.00	1	27.18	0.55	273.9	442.0	343	288	263	0.39	1.6				33.9	0.01
4.50	4.40	28.2	0.47	0.00	28.2	2.40	6	119	0.25	0.25	105.7	44.9	1.67	5	2.32	45.3	2.00	102.7	5	0.00	1	23.20	0.52	273.8	506.4	474	378	391	0.62	2.4				35.8	0.01
4.60	4.53	34.9	0.70	-0.01	34.9	3.21	5	123	0.26	0.26	130.8	55.6	2.01	5	2.30	56.0	1.93	115.4	5	0.00	1	22.48	0.51	273.8	556.4	593	456	484	0.78	3.0				36.8	0.02
4.70	4.67	19.9	0.80	0.00	19.9	4.03	4	119	0.27	0.27	73.1	31.6	4.09	4	2.69	32.0	0.00	32.0	4	0.00	1	39.69	0.55	273.9	536.1	533		275	6.56	10.5	1.7	1.41	2.26	34.1	1.41
4.90	4.81	18.1	0.83	0.01	18.1	4.57	3	119	0.28	0.28	64.2	28.6	4.63	4	2.75	29.1	0.00	29.1	4	0.00	1	43.37	0.56	273.9	532.6	526		249	5.94	9.5	1.5	1.27	2.04	33.6	1.27
5.00	4.94	17.3	0.82	0.01	17.3	4.76	3	119	0.29	0.29	59.5	27.3	4.84	3	2.78	27.7	0.00	27.7	4	0.00	1	44.93	0.56	273.9	529.2	519		238	5.66	9.1	1.5	1.21	1.95	33.4	1.21
5.10	5.07	17.4	0.85	0.01	17.4	4.91	3	119	0.29	0.29	58.2	27.4	5.00	3	2.79	27.9	0.00	27.9	4	0.00	1	45.37	0.56	273.9	533.2	528		239	5.69	9.1	1.4	1.22	1.96	33.4	1.22
5.30	5.21	17.9	0.93	0.01	17.9	5.22	3	120	0.30	0.30	58.4	28.3	5.31	3	2.80	28.8	0.00	28.8	4	0.00	1	45.87	0.56	273.9	544.3	553		246	5.87	9.4	1.3	1.26	2.02	33.6	1.26
5.40	5.35	18.5	1.00	0.02	18.5	5.41	3	121	0.31	0.31	58.8	29.3	5.50	3	2.80	29.8	0.00	29.8	4	0.00	1	45.85	0.56	273.9	553.9	576		255	6.08	9.8	1.3	1.30	2.09	33.7	1.30
5.50	5.47	19.2	1.04	0.02	19.2	5.42	3	121	0.32	0.32	59.6	30.4	5.51	3	2.79	30.9	0.00	30.9	4	0.00	1	45.25	0.56	273.9	560.3	591		265	6.30	10.1	1.3	1.35	2.17	33.9	1.35
5.60	5.58	19.5	1.05	0.02	19.5	5.36	3	121	0.32	0.32	59.2	30.8	5.45	3	2.78	31.3	0.00	31.3	4	0.00	1	44.79	0.56	273.9	561.7	594		269	6.40	10.3	1.3	1.37	2.20	34.0	1.37
5.80	5.71	19.5	1.04	0.02	19.5	5.33	3	121	0.33	0.33	57.7	30.7	5.42	3	2.78	31.3	0.00	31.3	4	0.00	1	44.74	0.56	273.9	560.5	592		268	6.38	10.2	1.3	1.37	2.20	34.0	1.37
5.90	5.85	19.4	1.04	0.03	19.4	5.35	3	121	0.34	0.34	56.1	30.6	5.44	4	2.61	31.2	0.00	31.2	4	0.00	1	35.62	0.56	273.9	501.7	474		267	6.36	10.2	1.3	1.36	2.19	34.0	1.36
6.10	5.99	19.9	1.05	0.03	20.0	5.25	3	121	0.35	0.35	56.2	31.5	5.34	3	2.77	32.0	0.00	32.0	4	0.00	1	44.07	0.56	273.9	563.1	598		274	6.53	10.5	1.3	1.40	2.25	34.1	1.40
6.20	6.11	20.3	1.12	0.03	20.3	5.49	3	122	0.36	0.36	56.1	32.1	5.59	4	2.61	32.7	0.00	32.7	4	0.00	1	36.04	0.56	273.9	516.3	505		280	6.66	10.7	1.3	1.43	2.29	34.2	1.43
6.30	6.25	20.9	1.20	0.03	20.9	5.76	3	122	0.36	0.36	56.3	33.0	5.86	4	2.63	33.5	0.00	33.5	4	0.00	1	36.76	0.56	273.9	527.9	530		287	6.84	11.0	1.2	1.47	2.35	34.3	1.47
6.50	6.39	21.5	1.25	0.03	21.5	5.80	3	123	0.37	0.37	56.6	34.0	5.90	4	2.63	34.5	0.00	34.5	4	0.00	1	36.80	0.55	273.9	536.0	548		296	7.04	11.3	1.2	1.51	2.43	34.4	1.51
6.60	6.53	21.5	1.25	0.03	21.5	5.79	3	123	0.38	0.38	55.3	33.9	5.90	4	2.64	34.5	0.00	34.5	4	0.00	1	37.11	0.56	273.9	538.1	553		296	7.04	11.3	1.2	1.51	2.42	34.4	1.51
6.70	6.64	21.4	1.23	0.03	21.4	5.74	3	123	0.39	0.39	54.1	33.8	5.84	4	2.64	34.4	0.00	34.4	4	0.00	1	37.29	0.56	273.9	538.0	552		294	7.01	11.3	1.2	1.50	2.41	34.4	1.50
6.80	6.76	20.9	1.20	0.03	20.9	5.75	3	122	0.40	0.40	51.7	32.9	5.86	4	2.65	33.5	0.00	33.5	4	0.00	1	37.99	0.56	273.9	535.6	546		287	6.83	11.0	1.2	1.46	2.35	34.3	1.46
7.00	6.89	20.6	1.18	0.04	20.6	5.73	3	122	0.40	0.40	50.0	32.4	5.84	4	2.66	33.1	0.00	33.1	4	0.00	1	38.45	0.56	273.9	534.7	543		282	6.73	10.8	1.2	1.44	2.32	34.2	1.44
7.10	7.03	20.0	1.16	0.04	20.0	5.80	3	122	0.41	0.41	47.5	31.5	5.92	3	2.68	32.1	0.00	32.1	4	0.00	1	39.44	0.56	274.0	533.3	540		274	6.53	10.5	1.2	1.40	2.25	34.1	1.40
7.20	7.16	19.5	1.14	0.05	19.5	5.87	3	122	0.42	0.42	45.4	30.7	5.99	3	2.70	31.3	0.00	31.3	4	0.00	1	40.32	0.57	274.0	532.1	536		267	6.36	10.2	1.2	1.36	2.19	34.0	1.36
7.40	7.29	18.9	1.12	0.06	18.9	5.91	3	122	0.43	0.43	43.2	29.7	6.04	3	2.71	30.4	0.00	30.4	4	0.00	1	41.25	0.57	274.0	529.6	530		259	6.17	9.9	1.2	1.32	2.12	33.8	1.32
7.50	7.42	18.7	1.09	0.07	18.7	5.85	3	121	0.44	0.44	41.9	29.3	5.98	3	2.72	30.0	0.00	30.0	4	0.00	1	41.58	0.57	274.0	528.1	527		256	6.09	9.8	1.2	1.30	2.10	33.7	1.30
7.60	7.56	18.1	1.08	0.07	18.1	5.96	3	121	0.44	0.44	39.7	28.4	6.10	3	2.74	29.1	0.00	29.1	4	0.00	1	42.77	0.57	274.0	526.6	523		247	5.89	9.5	1.2	1.26	2.03	33.6	1.26
7.80	7.69	17.4	1.04	0.07	17.4	5.98	3	121	0.45	0.45	37.5	27.3	6.14	3	2.76	28.0	0.00	28.0	4	0.00	1	43.81	0.58	274.0	522.5	513		238	5.66	9.1	1.2	1.21	1.95	33.4	1.21
7.90	7.83	17.0	1.01	0.07	17.0	5.92	3	121	0.46	0.46	36.0	26.6	6.08	3	2.77	27.4	0.00	27.4	4	0.00	1	44.35	0.58	274.0	519.4	506		232	5.53	8.9	1.2	1.18	1.90	33.3	1.18
8.00	7.96	17.0	1.02	0.07	17.0	6.03	3	121	0.47	0.47	35.2	26.5	6.19	3	2.78	27.3	0.00	27.3	4	0.00	1	45.03	0.58	274.0	522.5	512		231	5.51	8.8	1.1	1.18	1.90	33.3	1.18
8.20	8.09	17.2	1.01	0.07	17.2	5.91	3	121	0.48	0.48	35.0	26.8	6.07	3	2.78	27.6	0.00	27.6	4	0.00	1	44.80	0.58	274.0	523.8	515		234	5.56	8.9	1.2	1.19	1.91	33.3	1.19
8.30	8.21	16.9	0.99	0.06	16.9	5.86	3	120	0.48	0.48	34.0	26.4	6.03	3	2.79	27.2	0.00	27.2	4	0.00	1	45.15	0.58	274.0	522.2	511		230	5.49	8.8	1.2	1.18	1.89	33.2	1.18
8.40	8.34	16.2	0.98	0.06	16.2	6.03	3	120	0.49	0.49	32.0	25.3	6.21	3	2.81	26.0	0.00	26.0	4	0.00	1	46.77	0.58	274.0	519.5	504		220	5.24	8.4	1.1	1.12	1.80	33.0	1.12
8.50	8.47	15.3	0.96	0.06	15.3	6.27	3	120	0.50	0.50	29.7	23.8	6.47	3	2.85	24.6	0.00	24.6	4	0.00	1	48.86	0.59	274.0	516.1	497		208	4.95	7.9	1.1	1.06	1.70	32.7	1.06
8.70	8.61	14.8	0.93	0.06	14.8	6.31	3	120	0.51	0.51	28.1	23.0	6.53	3	2.87	23.8	0.00	23.8	4	0.00	1	50.00	0.59	274.0	512.7	489		200	4.76	7.7	1.1	1.02	1.64	32.6	1.02
8.80	8.74	14.3	0.90	0.06	14.3	6.32	3	119	0.52	0.52	26.7	22.2	6.55	3	2.88	23.0	0.00	23.0	4	0.00	1	51.01	0.60	274.0	509.0	481		193	4.60	7.4	1.1	0.99	1.58	32.4	0.99
8.90	8.87	13.9	0.88	0.06	13.9	6.34	3	119	0.52	0.52	25.6	21.5	6.58	3	2.90	22.4	0.00	22.4	4	0.00	1	51.95	0.60	274.1	506.5	475		188	4.47	7.2	1.1	0.96	1.54	32.3	0.96
9.10	9.01	13.5	0.86	0.06	13.5	6.35	3	119	0.53	0.53	24.4	20.8	6.61	3	2.92	21.6	0.00	21.6	4	0.00	1	53.00	0.60	274.1	503.3	468		181	4.32	6.9	1.1	0.93	1.49	32.1	0.93
9.20	9.13	12.8	0.82	0.06	12.9	6.37	3	118	0.54	0.54	22.9	19.8	6.65	3	2.94	20.6	0.00	20.6	4	0.00	1	54.37	0.60	274.1	497.5	455		172	4.11	6.6	1.1	0.88	1.41	31.9	0.88

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Z_b (ft)	Z_m (ft)	q_c (tsf)	f_s (tsf)	u_2 (tsf)	q_t (tsf)	R_f	SBT	γ (pcf)	σ_{v0} (tsf)	σ_{v0}' (tsf)	Q_t	Q_{tn}	F_R	SBT_n	I_c	q_{c1N}	K_c	$Q_{tn,cs}$	$(SBT)_{Ic}$	B_q	$(SBT)_{Bq}$	F_C (%)	c	R	V_s (ft/s)	G_0 (tsf)	E' (tsf)	M (tsf)	σ_p' (tsf)	OCR	S_t	S_u (tsf)	S_u/σ_{v0}'	φ (°)	c' (tsf)
9.30	9.26	12.3	0.77	0.08	12.3	6.29	3	118	0.55	0.55	21.4	18.8	6.58	3	2.95	19.4	0.00	19.4	3	-0.01	1	55.46	0.61	274.1	490.5	440		164	3.91	6.3	1.1	0.84	1.35	31.6	0.84
9.50	9.41	11.9	0.74	0.08	11.9	6.24	3	117	0.56	0.56	20.5	18.3	6.53	3	2.97	18.6	0.00	18.6	3	-0.01	1	56.26	0.61	274.1	487.1	433		159	3.79	6.1	1.1	0.81	1.31	31.5	0.81
9.60	9.53	11.7	0.72	0.08	11.7	6.14	3	117	0.56	0.56	19.9	18.0	6.44	3	2.97	18.2	0.00	18.2	3	-0.01	1	56.63	0.61	274.1	484.4	427		156	3.73	6.0	1.1	0.80	1.28	31.4	0.80
9.70	9.66	11.3	0.72	0.06	11.3	6.38	3	117	0.57	0.57	18.8	17.2	6.71	3	3.00	17.3	0.00	17.3	3	-0.01	1	58.59	0.62	274.1	483.5	425		150	3.58	5.7	1.1	0.77	1.23	31.2	0.77
9.90	9.80	11.0	0.73	0.06	11.0	6.67	3	117	0.58	0.58	18.0	16.7	7.04	3	3.03	16.7	0.00	16.7	3	-0.01	1	60.48	0.62	274.1	485.0	428		146	3.47	5.6	1.0	0.74	1.20	31.1	0.74
10.00	9.94	11.1	0.75	0.06	11.1	6.77	3	117	0.59	0.59	17.9	16.8	7.14	3	3.04	16.6	0.00	16.6	3	-0.01	1	60.97	0.62	274.1	488.4	435		147	3.49	5.6	1.0	0.75	1.20	31.1	0.75
10.10	10.06	11.2	0.76	0.06	11.3	6.75	3	117	0.59	0.59	18.0	17.1	7.12	3	3.03	16.7	0.00	16.7	3	-0.01	1	60.73	0.62	274.1	491.6	441		149	3.55	5.7	1.0	0.76	1.22	31.2	0.76
10.30	10.19	11.5	0.76	0.07	11.5	6.60	3	118	0.60	0.60	18.4	17.5	6.96	3	3.02	17.1	0.00	17.1	3	-0.01	1	59.81	0.62	274.1	493.9	446		153	3.65	5.8	1.0	0.78	1.25	31.3	0.78
10.40	10.32	12.2	0.76	0.08	12.2	6.23	3	118	0.61	0.60	19.4	18.4	6.55	3	2.98	18.0	0.00	18.0	3	-0.01	1	57.47	0.61	274.1	497.8	453		163	3.87	6.1	1.1	0.83	1.31	31.5	0.83
10.50	10.44	12.8	0.76	0.07	12.9	5.93	3	118	0.62	0.60	20.3	19.1	6.22	3	2.95	18.9	0.00	18.9	3	0.00	1	55.47	0.61	274.1	501.2	460		171	4.08	6.4	1.1	0.87	1.37	31.7	0.87
10.60	10.58	12.7	0.76	0.05	12.7	6.01	3	118	0.62	0.61	19.9	18.8	6.31	3	2.97	18.5	0.00	18.5	3	0.00	1	56.25	0.61	274.1	500.8	459		168	4.01	6.3	1.1	0.86	1.34	31.6	0.86
10.80	10.70	12.7	0.77	0.06	12.7	6.10	3	118	0.63	0.61	19.7	18.7	6.41	3	2.97	18.4	0.00	18.4	3	0.00	1	56.67	0.61	274.1	502.7	463		168	4.01	6.2	1.1	0.86	1.33	31.6	0.86
10.90	10.84	12.8	0.64	0.07	12.8	4.98	3	116	0.64	0.61	19.8	18.6	5.23	3	2.91	18.5	0.00	18.5	4	0.00	1	52.73	0.61	274.1	486.5	428		170	4.06	6.2	1.4	0.87	1.33	31.6	0.87
11.00	10.97	12.4	0.69	0.07	12.4	5.61	3	117	0.65	0.62	19.0	18.0	5.92	3	2.96	17.8	0.00	17.8	3	0.00	1	55.92	0.61	274.1	492.7	441		164	3.91	6.0	1.2	0.84	1.28	31.4	0.84
11.20	11.09	12.2	0.68	0.09	12.2	5.62	3	117	0.65	0.62	18.6	17.6	5.93	3	2.97	17.5	0.00	17.5	3	0.00	1	56.43	0.62	274.1	490.9	438		161	3.84	5.9	1.2	0.82	1.26	31.3	0.82
11.30	11.23	11.9	0.67	0.09	11.9	5.62	3	117	0.66	0.62	18.1	17.2	5.91	3	2.98	17.0	0.00	17.0	3	0.00	1	56.96	0.62	274.1	488.0	432		158	3.76	5.7	1.2	0.81	1.23	31.2	0.81
11.50	11.39	12.7	0.66	0.09	12.7	5.22	3	117	0.67	0.63	19.1	18.0	5.51	3	2.94	18.0	0.00	18.0	4	0.00	1	54.47	0.61	274.1	491.4	438		168	4.00	6.0	1.3	0.86	1.29	31.4	0.86
11.60	11.52	12.4	0.66	0.09	12.4	5.29	3	117	0.68	0.63	18.6	17.6	5.59	3	2.95	17.5	0.00	17.5	3	0.00	1	55.31	0.61	274.1	490.2	436		164	3.91	5.9	1.3	0.84	1.26	31.3	0.84
11.70	11.64	12.0	0.65	0.09	12.0	5.41	3	116	0.69	0.63	17.8	16.9	5.73	3	2.97	16.9	0.00	16.9	3	0.00	1	56.72	0.62	274.1	487.4	430		158	3.76	5.6	1.2	0.81	1.21	31.1	0.81
11.80	11.77	11.4	0.64	0.09	11.5	5.56	3	116	0.69	0.64	16.8	16.1	5.91	3	3.00	16.0	0.00	16.0	3	0.00	1	58.46	0.62	274.1	483.6	422		151	3.59	5.4	1.2	0.77	1.15	30.9	0.77
12.00	11.90	10.9	0.62	0.09	10.9	5.67	3	116	0.70	0.64	15.9	15.2	6.05	3	3.03	15.2	0.00	15.2	3	0.00	1	60.21	0.62	274.1	478.9	413		143	3.40	5.1	1.2	0.73	1.09	30.6	0.73
12.10	12.02	10.6	0.60	0.09	10.6	5.67	3	116	0.71	0.65	15.4	14.8	6.06	3	3.04	14.8	0.00	14.8	3	0.00	1	61.02	0.63	274.1	475.5	406		139	3.31	4.9	1.2	0.71	1.06	30.5	0.71
12.20	12.15	10.6	0.59	0.09	10.6	5.54	3	115	0.72	0.65	15.3	14.7	5.93	3	3.03	14.7	0.00	14.7	3	0.00	1	60.71	0.63	274.1	474.0	403		139	3.30	4.9	1.2	0.71	1.05	30.4	0.71
12.40	12.29	10.6	0.57	0.10	10.6	5.39	3	115	0.72	0.65	15.2	14.6	5.78	3	3.03	14.6	0.00	14.6	3	0.00	1	60.35	0.63	274.1	472.2	399		139	3.30	4.9	1.2	0.71	1.04	30.4	0.71
12.50	12.42	10.5	0.56	0.10	10.5	5.32	3	115	0.73	0.66	14.9	14.3	5.71	3	3.03	14.4	0.00	14.4	3	0.00	1	60.60	0.63	274.1	469.6	394		136	3.25	4.8	1.2	0.70	1.02	30.3	0.70
12.60	12.56	10.4	0.54	0.10	10.4	5.21	3	115	0.74	0.66	14.7	14.1	5.60	3	3.03	14.2	0.00	14.2	3	0.00	1	60.49	0.63	274.1	467.7	390		136	3.23	4.7	1.3	0.69	1.01	30.3	0.69
12.80	12.69	10.5	0.55	0.10	10.5	5.27	3	115	0.75	0.66	14.8	14.2	5.67	3	3.03	14.3	0.00	14.3	3	0.00	1	60.62	0.63	274.1	470.4	395		137	3.26	4.7	1.3	0.70	1.01	30.3	0.70
12.90	12.81	10.5	0.58	0.10	10.5	5.50	3	115	0.75	0.67	14.7	14.2	5.91	3	3.05	14.3	0.00	14.3	3	0.00	1	61.57	0.63	274.1	474.4	403		137	3.26	4.7	1.2	0.70	1.01	30.3	0.70
13.00	12.93	10.5	0.57	0.10	10.5	5.47	3	115	0.76	0.67	14.6	14.1	5.88	3	3.05	14.2	0.00	14.2	3	0.00	1	61.61	0.63	274.1	474.4	403		137	3.26	4.7	1.2	0.70	1.01	30.2	0.70
13.10	13.06	10.2	0.55	0.10	10.2	5.35	3	115	0.77	0.67	14.1	13.6	5.77	3	3.05	13.8	0.00	13.8	3	0.00	1	62.06	0.63	274.1	468.9	392		129	3.15	4.5	1.2	0.68	0.97	30.1	0.68
13.30	13.20	9.8	0.52	0.11	9.8	5.27	3	114	0.78	0.68	13.4	13.0	5.70	3	3.06	13.2	0.00	13.2	3	0.00	1	62.94	0.64	274.2	462.8	380		118	3.02	4.3	1.2	0.65	0.93	29.8	0.65
13.40	13.33	9.8	0.51	0.11	9.8	5.21	3	114	0.78	0.68	13.3	12.9	5.65	3	3.06	13.1	0.00	13.1	3	0.00	1	62.90	0.64	274.2	462.4	379		117	3.02	4.3	1.3	0.65	0.92	29.8	0.65
13.50	13.46	9.9	0.52	0.12	9.9	5.22	3	114	0.79	0.68	13.3	12.9	5.66	3	3.06	13.1	0.00	13.1	3	0.00	1	62.94	0.64	274.2	463.6	381		118	3.03	4.3	1.3	0.65	0.92	29.8	0.65
13.70	13.60	10.0	0.51	0.12	10.0	5.13	3	114	0.80	0.69	13.5	13.0	5.56	3	3.06	13.3	0.00	13.3	3	0.00	1	62.36	0.63	274.2	464.6	383		120	3.08	4.3	1.3	0.66	0.93	29.9	0.66
13.80	13.73	10.2	0.54	0.12	10.2	5.25	3	115	0.81	0.69	13.7	13.2	5.68	3	3.06	13.5	0.00	13.5	3	0.00	1	62.44	0.63	274.2	469.6	393		125	3.14	4.4	1.2	0.67	0.95	29.9	0.67
13.90	13.86	10.6	0.55	0.12	10.6	5.18	3	115	0.81	0.69	14.1	13.6	5.60	3	3.04	13.9	0.00	13.9	3	0.00	1	61.43	0.63	274.1	473.7	400		133	3.26	4.5	1.3	0.70	0.97	30.1	0.70
14.10	13.99	10.8	0.57	0.11	10.9	5.24	3	115	0.82	0.70	14.4	13.9	5.66	3	3.04	14.2	0.00	14.2	3	0.00	1	61.13	0.63	274.1	478.9	411		140	3.35	4.6	1.3	0.72	1.00	30.2	0.72
14.20	14.13	10.2	0.58	0.09	10.2	5.73	3	115	0.83	0.70	13.4	13.1	6.20	3	3.09	13.3	0.00	13.3	3	0.00	1	64.60	0.63	274.2	478.1	409		123	3.13	4.4	1.1	0.67	0.93	29.9	0.67
14.30	14.26	12.1	0.58	0.09	12.1	4.82	3	116	0.84	0.70	16.0	15.4	5.16	3	2.98	15.7	0.00	15.7	3	0.00	1	56.96	0.62	274.1	488.5	429		158	3.76	5.1	1.4	0.81	1.10	30.7	0.81
14.50	14.40	13.3	0.61	0.10	13.3	4.60	3	116	0.84	0.71	17.6	16.8	4.91	3	2.93	17.2	0.00	17.2	4	0.00	1	54.05	0.62	274.1	498.6	449		174	4.15	5.6	1.4	0.89	1.20	31.1	0.89
14.60	14.54	14.2	0.68	0.10	14.2	4.78	3	117	0.85	0.71	18.7	17.9	5.08	3	2.92	18.2	0.00	18.2	4	0.00	1	53.38	0.61	274.1	512.3	478		186	4.44	6.0	1.4	0.95	1.28	31.4	0.95
14.70	14.65	14.5	0.73	0.10	14.5	5.06	3	118	0.86	0.71	19.0	18.2	5.37	3	2.93	18.6	0.00	18.6	4	0.00	1	54.06	0.61	274.1	521.3	498		190	4.54	6.1	1.3	0.97	1.30	31.5	0.97
14.80	14.76	14.4	0.77	0.09	14.4	5.34	3	118	0.87	0.72	18.9	18.1	5.68	3	2.95	18.4	0.00	18.4	3	0.00	1	55.27	0.61	274.1	526.4	509		190	4.52	6.0	1.3	0.97	1.29	31.4	0.97
15.00	14.90	14.7	0.80	0.09	14.8	5.46	3	119	0.87	0.72	19.2	18.5	5.80	3	2.95	18.8	0.00	18.8	3	0.00	1	55.27	0.61	274.1	532.8	523		194	4.63	6.2	1.2	0.99	1.32	31.5	0.99
15.10	15.04	14.6	0.81	0.10	14.7	5.52	3	119	0.88	0.73	19.0	18.3	5.86	3	2.96	18.6	0.00	18.6	3	0.00	1	55.76	0.61	274.1	533.3	524		193	4.59	6.1	1.2	0.98	1.30	31.5	0.98
15.20	15.17	13.4	0.81	0.10	13.4	6.09	3	118	0.89	0.73	17.1	16.6	6.52	3	3.02	16.9	0.00	16.9	3	0.00	1	60.02	0.62	274.1	529.0	515		175	4.17	5.5	1.1	0.89	1.19	31.0	0.89
15.40	15.31	12.6	0.80	0.10	12.6	6.40	3	118	0.90	0.73	15.9	15.5	6.88	3	3.06	15.8	0.00	15.8	3	0.01	1	62.78	0.62	274.1	524.0	504		163	3.89	5.2	1.0	0.83	1.11	30.7	0.83
15.50	15.43	11.7	0.76	0.10	11.7	6.53	3	118	0.91	0.74	14.7	14.3	7.06	3	3.10	14.7	0.00	14.7	3	0.01	1	65.25	0.63	274.1	515.0	485		151	3.60	4.8	1.0	0.77	1.02	30.3	0.77
15.60	15.57	11.1	0.69	0.10	11.2	6.23	3	117	0.91	0.74	13.8	13.5	6.78	3	3.10	13.9	0.00	13.9	3	0.01	1	65.72	0.63	274.1	503.9	461		139	3.41	4.5	1.0	0.73	0.97	30.0	0.73
15.80	15.70	10.7	0.63	0.10	10.7	5.90	3	116	0.92	0.74	13.2	12.9	6.44	3	3.10	13.3	0.00	13.3	3	0.01	1	65.83	0.63	274.2	493.4	439		126	3.27	4.3	1.1	0.70	0.92	29.8	0.70
15.90	15.82	10.4	0.57	0.10	10.4	5.52	3	115	0.93	0.75	12.7	12.4	6.05	3	3.10	12.9	0.00	12.9	3	0.01	1	65.52	0.64	274.2	483.1	418		117	3.15	4.1	1.2	0.67	0.88	29.6	0.67
16.00	15.95	10.1	0.55	0.10	10.1	5.41	3	115	0.94	0.75	12.3	12.0	5.95	3	3.11	12.5	0.00	12.5	3	0.01	1	65.93	0.64	274.2	478.5	408		111	3.07	4.0	1.2	0.66	0.86	29.5	0.66
16.20	16.08	9.7	0.54	0.10	9.7	5.55	3	115	0.94	0.75	11.7	11.5	6.14	3	3.13	12.0	0.00	12.0	3	0.01	1	67.76	0.64	274.2	475.5	402		101	2.93	3.8	1.2	0.63	0.82	29.3	0.63
16.30	16.22	9.3	0.53	0.10	9.3	5.75	3	114	0.95	0.76	11.0	10.9	6.40	3	3.16	11.4	0.00	11.4	3	0.01	1	70.05	0.65	274.2	472.3	396		91	2.79	3.6	1.1	0.60	0.78	29.0	0.60
16.40	16.36	8.9	0.52	0.10	8.9	5.79	3	114	0.96	0.76	10.5	10.3	6.47	3	3.18	10.9	0.00	10.9	3	0.01	1	71.65	0.65	274.2	467.2	387		82	2.65	3.4	1.1	0.57	0.74	28.8	0.57
16.60	16.49	8.7	0.49	0.10	8.7	5.70	3	114	0.97	0.76	10.1	10.0	6.41	3	3.19	10.6	0.00	10.6	3	0.01	1	72.38	0.65	274.2	462.4	377		77	2.57	3.3	1.1	0.55	0.71	28.6	0.55
16.70	16.62	8.1	0.45	0.10	8.1	5.59	3	113	0.97	0.77	9.3	9.2	6.35	3	3.22	9.8	0.00	9.8	3	0.01	1	74.39	0.66	274.2	451.6	357		65	2.37	3.1	1.1	0.51	0.66	28.2	0.51
16.80	16.75	7.1	0.41	0.10	7.1	5.72	3	112	0.98	0.77	8.0	7.9	6.62	3	3.28	8.6	0.00	8.6	3	0.02	1	79.46	0.67	274.3	436.5	331		49	2.05	2.6	1.1	0.44	0.57	27.5	0.44
16.90	16.88	7.3	0.39	0.10	7.3	5.42	3	111	0.99	0.77	8.2	8.1	6.24	3	3.26	8.8	0.00	8.8	3	0.02	1	77.48	0.67	274.2	436.2	330		51	2.11	2.7	1.1	0.45	0.58	27.6	0.45
17.10	17.00	7.9	0.38	0.10	7.9	4.79	3	111	1.00	0.78	8.9	8.8	5.47	3	3.19	9.5	0.00	9.5	3	0.02	1	72.38	0.66	274.2	437.6	331		61	2.30	2.9	1.3	0.49	0.63	28.0	0.49
17.20	17.14	7.9	0.36	0.10	7.9	4.54	3	111	1.00	0.78	8.8	8.7	5.19	3	3.18	9.5	0.00	9.5	3	0.02	1	71.46	0.66	274.2	434.0	325		60	2.30	2.9	1.4	0.49	0.62	28.0	0.49
17.30	17.27	8.1	0.33	0.11	8.1	4.10	3	110	1.01	0.78	9.0	8.9	4.67	3	3.14	9.7	0.00	9.7	3	0.02	1	68.78	0.66	274.2	430.2	317		63	2.36	3.0	1.5	0.51	0.64	28.0	0.51
17.50	17.40	7.2	0.31	0.12	7.3	4.22	3	110	1.02	0.79	7.9	7.9	4.90	3	3.20	8.6	0.00	8.6	3	0.02	1	73.16	0.67	274.2	418.9	299		49	2.08	2.6	1.4	0.45	0.56	27.5	0.45
17.60	17.53	6.9	0.28	0.12	6.9	4.07	3	109	1.02	0.79	7.5	7.4	4.77	3	3.22	8.2	0.00	8.2	3	0.02	1	74.25	0.67	274.3	410.9	285		44	1.97	2.5	1.5	0.42	0.53	27.2	0.42
17.70	17.67	6.8	0.26	0.12	6.8	3.84	3	108	1.03	0.79	7.3	7.3	4.51	3	3.21	8.1	0.00	8.1	3	0.02	1	73.79	0.67	274.3	405.6	277		42	1.93	2.4	1.6	0.41	0.52	27.1	0.41
17.90	17.81	6.8	0.25	0.12	6.8	3.68	3	108	1.04	0.80	7.3	7.2	4.33	3	3.20	8.0	0.00	8.0	3	0.02	1	73.09	0.67	274.3	403.1	272		42	1.93	2.4	1.6	0.41	0.51	27.0	0.41
18.00	17.93	6.8	0.24	0.12	6.8	3.56	3	108	1.05	0.80	7.2	7.2	4.20	3	3.20	8.0	0.00	8.0	3	0.02	1	72.63	0.67	274.3	401.3	269		41	1.93	2.4	1.7	0.41	0.51	27.0	0.41
18.10	18.05	6.9	0.24	0.12	6.9	3.43	3	107	1.05	0.80	7.3	7.2	4.03	3	3.18	8.1	0.00	8.1	3	0.02	1	71.74	0.67	274.3	399.9	267		42	1.94	2.4	1.8	0.42	0.51	27.0	0.42
18.20	18.18	6.8	0.23	0.12	6.8	3.38	3	107	1.06	0.80	7.2	7.1	3.99	3	3.19	8.0	0.00	8.0	3	0.02	1	71.91	0.67	274.3	398.5	265		41	1.92	2.4	1.8	0.41	0.51	27.0	0.41

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Z_b (ft)	Z_m (ft)	q_c (tsf)	f_s (tsf)	u_2 (tsf)	q_t (tsf)	R_f	SBT	γ (pcf)	σ_{v0} (tsf)	σ_{v0}' (tsf)	Q_t	Q_{tn}	F_R	SBT_n	I_c	q_{c1N}	K_c	$Q_{m,cs}$	$(SBT)_{Ic}$	B_q	$(SBT)_{Bq}$	F_C (%)	c	R	V_s (ft/s)	G_0 (tsf)	E' (tsf)	M (tsf)	σ_p' (tsf)	OCR	S_t	S_u (tsf)	S_u/σ_{v0}'	φ (°)	c' (tsf)
18.40	18.31	6.8	0.23	0.12	6.8	3.35	3	107	1.07	0.81	7.1	7.1	3.96	3	3.19	8.0	0.00	8.0	3	0.02	1	71.89	0.67	274.3	398.2	264		41	1.92	2.4	1.8	0.41	0.50	26.9	0.41
18.50	18.44	7.3	0.25	0.12	7.3	3.41	3	108	1.07	0.81	7.7	7.6	3.99	3	3.16	8.5	0.00	8.5	3	0.02	1	69.96	0.67	274.3	407.9	279		48	2.08	2.5	1.8	0.45	0.54	27.3	0.45
18.70	18.59	8.2	0.27	0.12	8.2	3.29	3	109	1.08	0.81	8.8	8.7	3.77	3	3.10	9.5	0.00	9.5	3	0.02	1	65.44	0.66	274.2	420.3	299		62	2.39	2.9	1.9	0.51	0.62	27.9	0.51
18.80	18.72	9.3	0.31	0.12	9.3	3.37	4	110	1.09	0.82	10.1	9.9	3.81	3	3.05	10.8	0.00	10.8	3	0.02	1	62.24	0.65	274.2	437.7	329		81	2.74	3.3	1.9	0.59	0.71	28.5	0.59
18.90	18.84	11.2	0.43	0.12	11.3	3.81	3	113	1.10	0.82	12.4	12.1	4.21	3	3.01	13.0	0.00	13.0	3	0.01	1	59.03	0.64	274.2	472.6	393		123	3.39	4.0	1.7	0.73	0.87	29.5	0.73
19.00	18.97	15.1	0.55	0.13	15.2	3.67	4	116	1.10	0.82	17.1	16.5	3.94	3	2.88	17.4	0.00	17.4	4	0.01	1	50.86	0.61	274.1	512.9	474		197	4.68	5.5	1.8	1.00	1.18	31.0	1.00
19.20	19.11	17.3	0.58	0.11	17.3	3.38	4	117	1.11	0.83	19.6	18.9	3.60	4	2.81	19.8	0.00	19.8	4	0.01	1	46.59	0.60	274.1	526.8	503		227	5.41	6.3	2.0	1.16	1.35	31.6	1.16
19.30	19.24	13.9	0.48	0.07	13.9	3.43	4	115	1.12	0.83	15.4	15.0	3.72	3	2.90	15.9	0.00	15.9	4	0.02	1	52.03	0.62	274.1	495.6	437		179	4.27	5.0	1.9	0.91	1.07	30.5	0.91
19.50	19.38	10.3	0.36	0.06	10.3	3.45	4	112	1.13	0.83	11.0	10.8	3.86	3	3.03	11.7	0.00	11.7	3	0.03	1	60.27	0.64	274.2	454.7	358		99	3.06	3.6	1.8	0.66	0.77	29.0	0.66
19.60	19.51	9.1	0.32	0.06	9.2	3.48	3	110	1.13	0.84	9.6	9.4	3.97	3	3.08	10.4	0.00	10.4	3	0.03	1	64.18	0.65	274.2	440.0	332		76	2.67	3.1	1.8	0.57	0.67	28.3	0.57
19.70	19.64	8.8	0.29	0.07	8.8	3.29	4	110	1.14	0.84	9.1	8.9	3.78	3	3.09	9.9	0.00	9.9	3	0.03	1	64.65	0.66	274.2	430.7	316		68	2.54	3.0	1.9	0.54	0.64	28.1	0.54
19.80	19.77	8.1	0.28	0.07	8.1	3.42	3	109	1.15	0.84	8.2	8.1	3.98	3	3.14	9.1	0.00	9.1	3	0.03	1	68.18	0.66	274.2	423.6	304		56	2.31	2.7	1.8	0.50	0.58	27.6	0.50
20.00	19.89	7.9	0.27	0.07	7.9	3.45	3	109	1.15	0.85	8.0	7.9	4.03	3	3.15	8.9	0.00	8.9	3	0.03	1	69.27	0.67	274.2	421.3	300		53	2.25	2.6	1.8	0.48	0.56	27.5	0.48
20.10	20.02	7.9	0.30	0.08	7.9	3.73	3	110	1.16	0.85	8.0	7.9	4.36	3	3.17	8.9	0.00	8.9	3	0.03	1	70.72	0.67	274.2	427.8	311		54	2.26	2.6	1.6	0.48	0.57	27.5	0.48
20.20	20.16	8.3	0.30	0.08	8.3	3.66	3	110	1.17	0.85	8.3	8.3	4.25	3	3.15	9.3	0.00	9.3	3	0.03	1	69.04	0.66	274.2	432.1	319		59	2.37	2.8	1.7	0.51	0.59	27.7	0.51
20.40	20.28	8.6	0.28	0.09	8.6	3.27	3	109	1.18	0.86	8.7	8.5	3.78	3	3.11	9.6	0.00	9.6	3	0.03	1	65.92	0.66	274.2	429.0	313		63	2.47	2.8	1.9	0.53	0.61	27.8	0.53
20.50	20.42	7.8	0.26	0.09	7.8	3.28	3	108	1.18	0.86	7.8	7.7	3.85	3	3.15	8.7	0.00	8.7	3	0.04	1	69.09	0.67	274.2	418.4	295		51	2.22	2.6	1.8	0.48	0.55	27.3	0.48
20.60	20.55	7.8	0.25	0.09	7.8	3.17	3	108	1.19	0.86	7.7	7.6	3.73	3	3.15	8.6	0.00	8.6	3	0.04	1	68.80	0.67	274.3	415.6	290		50	2.20	2.5	1.9	0.47	0.54	27.3	0.47
20.70	20.68	8.1	0.25	0.09	8.1	3.05	4	108	1.20	0.86	8.0	7.9	3.57	3	3.12	8.9	0.00	8.9	3	0.03	1	66.99	0.67	274.2	418.0	294		54	2.30	2.6	2.0	0.49	0.56	27.5	0.49
20.90	20.81	8.1	0.28	0.09	8.1	3.45	3	109	1.20	0.87	7.9	7.9	4.05	3	3.15	8.9	0.00	8.9	3	0.04	1	69.42	0.67	274.2	426.6	309		54	2.30	2.6	1.8	0.49	0.56	27.5	0.49
21.00	20.95	8.0	0.32	0.09	8.0	4.04	3	110	1.21	0.87	7.8	7.8	4.75	3	3.20	8.8	0.00	8.8	3	0.04	1	72.87	0.67	274.2	437.1	327		53	2.28	2.6	1.5	0.49	0.56	27.4	0.49
21.10	21.08	8.0	0.34	0.09	8.0	4.25	3	111	1.22	0.87	7.8	7.8	5.00	3	3.21	8.8	0.00	8.8	3	0.04	1	74.04	0.67	274.2	441.1	334		53	2.28	2.6	1.4	0.49	0.56	27.4	0.49
21.30	21.21	8.1	0.30	0.09	8.1	3.68	3	110	1.23	0.88	7.8	7.8	4.33	3	3.18	8.8	0.00	8.8	3	0.04	1	71.11	0.67	274.2	431.8	318		53	2.29	2.6	1.6	0.49	0.56	27.4	0.49
21.40	21.35	7.4	0.26	0.09	7.5	3.52	3	108	1.23	0.88	7.1	7.0	4.21	3	3.20	8.1	0.00	8.1	3	0.04	1	73.31	0.67	274.3	418.7	295		44	2.08	2.3	1.7	0.44	0.50	26.9	0.44
21.50	21.47	7.2	0.23	0.10	7.2	3.25	3	107	1.24	0.88	6.8	6.7	3.91	3	3.20	7.8	0.00	7.8	3	0.04	1	73.14	0.68	274.3	409.7	280		40	1.99	2.2	1.8	0.43	0.48	26.7	0.43
21.70	21.60	7.1	0.23	0.10	7.1	3.20	3	107	1.25	0.89	6.6	6.5	3.88	3	3.21	7.7	0.00	7.7	3	0.04	1	73.78	0.68	274.3	406.6	275		38	1.94	2.2	1.8	0.42	0.47	26.6	0.42
21.80	21.73	6.8	0.24	0.10	6.8	3.52	3	108	1.25	0.89	6.3	6.3	4.30	3	3.25	7.4	0.00	7.4	3	0.05	1	77.15	0.68	274.3	408.5	279		35	1.86	2.1	1.7	0.40	0.45	26.4	0.40
21.90	21.86	6.8	0.25	0.10	6.8	3.64	3	108	1.26	0.89	6.2	6.2	4.46	3	3.27	7.3	0.00	7.3	3	0.05	1	78.29	0.68	274.3	410.0	281		34	1.84	2.1	1.6	0.39	0.44	26.3	0.39
22.10	21.99	6.9	0.24	0.10	6.9	3.56	3	108	1.27	0.89	6.3	6.3	4.36	3	3.26	7.4	0.00	7.4	3	0.05	1	77.43	0.68	274.3	410.7	282		35	1.87	2.1	1.6	0.40	0.45	26.4	0.40
22.20	22.13	7.2	0.24	0.10	7.2	3.42	3	108	1.28	0.90	6.6	6.5	4.15	3	3.23	7.7	0.00	7.7	3	0.05	1	75.15	0.68	274.3	413.4	286		39	1.96	2.2	1.7	0.42	0.47	26.6	0.42
22.30	22.26	7.3	0.25	0.10	7.4	3.35	3	108	1.28	0.90	6.7	6.7	4.05	3	3.21	7.9	0.00	7.9	3	0.05	1	73.89	0.68	274.3	415.7	290		41	2.03	2.2	1.8	0.43	0.48	26.7	0.43
22.50	22.39	7.6	0.25	0.10	7.7	3.25	3	108	1.29	0.90	7.0	7.0	3.90	3	3.19	8.2	0.00	8.2	3	0.04	1	71.96	0.67	274.3	418.8	295		45	2.12	2.3	1.8	0.45	0.50	26.9	0.45
22.60	22.53	7.3	0.24	0.10	7.4	3.33	3	108	1.30	0.91	6.7	6.7	4.04	3	3.21	7.8	0.00	7.8	3	0.05	1	74.08	0.68	274.3	415.8	290		40	2.02	2.2	1.8	0.43	0.48	26.7	0.43
22.70	22.66	6.9	0.23	0.10	6.9	3.34	3	107	1.30	0.91	6.2	6.2	4.10	3	3.25	7.3	0.00	7.3	3	0.05	1	76.64	0.68	274.3	408.7	278		35	1.87	2.1	1.7	0.40	0.44	26.3	0.40
22.80	22.78	6.6	0.21	0.10	6.6	3.14	3	106	1.31	0.91	5.8	5.8	3.90	3	3.25	7.0	0.00	7.0	3	0.06	1	77.35	0.69	274.3	399.8	264		31	1.77	1.9	1.8	0.38	0.42	26.0	0.38
23.00	22.91	6.6	0.21	0.10	6.6	3.13	3	106	1.32	0.92	5.8	5.8	3.89	3	3.26	7.0	0.00	7.0	3	0.06	1	77.40	0.69	274.3	399.8	264		31	1.77	1.9	1.8	0.38	0.41	26.0	0.38
23.10	23.04	6.9	0.20	0.10	6.9	2.95	3	106	1.32	0.92	6.0	6.0	3.65	3	3.23	7.2	0.00	7.2	3	0.06	1	75.01	0.68	274.3	400.9	265		33	1.85	2.0	1.9	0.40	0.43	26.2	0.40
23.30	23.18	7.0	0.22	0.10	7.0	3.11	3	107	1.33	0.92	6.1	6.1	3.83	3	3.23	7.3	0.00	7.3	3	0.05	1	75.55	0.68	274.3	405.8	273		34	1.88	2.0	1.9	0.40	0.44	26.2	0.40
23.40	23.31	7.9	0.23	0.11	7.9	2.98	4	108	1.34	0.92	7.1	7.1	3.58	3	3.16	8.3	0.00	8.3	3	0.05	1	70.13	0.67	274.3	418.7	294		46	2.19	2.4	2.0	0.47	0.50	26.9	0.47
23.50	23.43	8.2	0.25	0.11	8.2	3.07	4	108	1.35	0.93	7.4	7.4	3.66	3	3.15	8.6	0.00	8.6	3	0.05	1	69.31	0.67	274.3	426.3	306		51	2.30	2.5	1.9	0.49	0.53	27.2	0.49
23.60	23.56	8.2	0.26	0.11	8.2	3.15	4	109	1.35	0.93	7.4	7.3	3.77	3	3.16	8.5	0.00	8.5	3	0.05	1	70.16	0.67	274.3	427.5	308		50	2.28	2.4	1.9	0.49	0.52	27.1	0.49
23.80	23.69	8.2	0.25	0.12	8.2	3.08	4	108	1.36	0.93	7.3	7.3	3.68	3	3.16	8.5	0.00	8.5	3	0.05	1	69.83	0.67	274.3	426.2	306		50	2.28	2.4	1.9	0.49	0.52	27.1	0.49
23.90	23.83	8.5	0.24	0.12	8.5	2.83	4	108	1.37	0.94	7.7	7.6	3.36	3	3.12	8.9	0.00	8.9	3	0.04	1	66.97	0.67	274.2	426.1	305		55	2.39	2.5	2.1	0.51	0.54	27.3	0.51
24.00	23.97	9.3	0.25	0.12	9.3	2.71	4	109	1.38	0.94	8.5	8.4	3.18	3	3.07	9.6	0.00	9.6	3	0.04	1	63.40	0.66	274.2	434.7	319		67	2.65	2.8	2.2	0.57	0.60	27.8	0.57
24.20	24.10	11.1	0.27	0.12	11.2	2.53	5	110	1.38	0.94	10.4	10.2	2.71	3	2.96	11.5	0.00	11.5	3	0.03	1	55.76	0.64	274.2	449.3	345		100	3.26	3.4	2.6	0.70	0.73	28.7	0.70
24.30	24.23	12.8	0.29	0.12	12.8	2.56	5	111	1.39	0.95	12.1	11.9	2.54	4	2.89	13.2	0.00	13.2	4	0.03	1	51.31	0.63	274.2	464.4	374		136	3.81	4.0	2.8	0.82	0.85	29.4	0.82
24.40	24.36	15.3	0.32	0.12	15.3	2.58	5	113	1.40	0.95	14.6	14.4	2.33	4	2.80	15.7	0.00	15.7	4	0.02	1	45.92	0.62	274.1	483.6	412		194	4.63	4.8	3.0	0.99	1.03	30.3	0.99
24.60	24.50	18.7	0.38	0.12	18.7	2.70	5	116	1.40	0.95	18.2	17.9	2.18	4	2.70	19.2	0.00	19.2	4	0.02	1	40.69	0.60	274.1	509.3	466		243	5.78	6.0	3.3	1.24	1.28	31.4	1.24
24.70	24.62	22.2	0.43	0.13	22.2	2.88	5	118	1.41	0.96	21.8	21.3	2.09	4	2.63	22.7	0.00	22.7	4	0.02	1	36.82	0.59	274.0	532.0	518		291	6.93	7.1	3.4	1.49	1.52	32.2	1.49
24.80	24.74	25.3	0.48	0.13	25.3	3.03	5	120	1.42	0.96	24.9	24.4	2.00	4	2.57	25.7	3.12	83.6	5	0.01	1	33.84	0.58	274.0	548.5	559	444	334	0.96	0.6				32.9	0.01
24.90	24.87	15.7	0.50	0.13	15.7	3.22	4	115	1.43	0.96	14.8	14.6	3.54	3	2.90	15.9	0.00	15.9	4	0.02	1	52.06	0.62	274.1	523.1	490		200	4.75	4.9	2.0	1.02	1.05	30.4	1.02
25.10	25.00	15.1	0.53	0.13	15.2	3.51	4	116	1.43	0.97	14.2	14.1	3.87	3	2.94	15.4	0.00	15.4	4	0.02	1	54.49	0.62	274.1	525.7	496		192	4.57	4.7	1.8	0.98	1.00	30.2	0.98
25.20	25.14	13.9	0.51	0.13	13.9	3.64	4	115	1.44	0.97	12.9	12.8	4.05	3	2.98	14.1	0.00	14.1	3	0.03	1	57.47	0.63	274.1	516.3	476		160	4.17	4.3	1.8	0.89	0.91	29.8	0.89
25.40	25.28	12.8	0.47	0.13	12.9	3.67	4	114	1.45	0.97	11.7	11.6	4.13	3	3.02	13.0	0.00	13.0	3	0.03	1	59.99	0.64	274.2	505.3	453		133	3.81	3.9	1.7	0.82	0.83	29.3	0.82
25.50	25.42	11.4	0.45	0.13	11.4	3.96	3	114	1.46	0.98	10.2	10.1	4.53	3	3.10	11.5	0.00	11.5	3	0.04	1	65.14	0.65	274.2	494.1	431		101	3.32	3.4	1.6	0.71	0.72	28.7	0.71
25.60	25.54	9.5	0.43	0.13	9.6	4.47	3	113	1.46	0.98	8.3	8.2	5.27	3	3.21	9.6	0.00	9.6	3	0.04	1	73.58	0.66	274.2	478.4	401		67	2.70	2.7	1.3	0.58	0.59	27.7	0.58
25.70	25.67	8.3	0.38	0.13	8.3	4.60	3	112	1.47	0.98	6.9	6.9	5.57	3	3.28	8.3	0.00	8.3	3	0.05	1	79.62	0.67	274.3	460.6	368		47	2.27	2.3	1.3	0.49	0.50	26.9	0.49
25.90	25.80	8.1	0.38	0.13	8.1	4.64	3	111	1.48	0.99	6.8	6.8	5.64	3	3.29	8.1	0.00	8.1	3	0.05	1	80.63	0.67	274.3	459.0	365		45	2.22	2.3	1.3	0.48	0.48	26.7	0.48
26.00	25.93	8.8	0.38	0.13	8.8	4.32	3	112	1.49	0.99	7.4	7.4	5.18	3	3.24	8.8	0.00	8.8	3	0.05	1	76.21	0.67	274.2	465.3	376		54	2.45	2.5	1.4	0.52	0.53	27.2	0.52
26.10	26.07	10.3	0.40	0.13	10.3	3.92	3	113	1.49	0.99	8.9	8.9	4.57	3	3.14	10.2	0.00	10.2	3	0.04	1	68.73	0.65	274.2	480.5	404		78	2.95	3.0	1.6	0.63	0.63	28.0	0.63
26.30	26.21	11.9	0.46	0.13	11.9	3.89	3	114	1.50	1.00	10.4	10.4	4.44	3	3.08	11.8	0.00	11.8	3	0.04	1	64.18	0.64	274.2	500.7	444		108	3.46	3.5	1.6	0.74	0.74	28.8	0.74
26.40	26.33	13.0	0.50	0.14	13.1	3.81	4	115	1.51	1.00	11.6	11.5	4.30	3	3.04	12.9	0.00	12.9	3	0.03	1	61.08	0.64	274.2	513.5	470		133	3.85	3.8	1.7	0.83	0.82	29.3	0.83
26.50	26.45	13.2	0.53	0.14	13.3	4.04	3	115	1.52	1.00	11.7	11.7	4.55	3	3.05	13.0	0.00	13.0	3	0.03	1	61.85	0.63	274.2	521.2	486		137	3.91	3.9	1.6	0.84	0.83	29.3	0.84
26.60	26.58	14.1	0.55	0.14	14.1	3.92	4	116	1.52	1.01	12.5	12.5	4.39	3	3.02	13.9	0.00	13.9	3	0.03	1	59.56	0.63	274.1	528.9	503		157	4.20	4.2	1.6	0.90	0.89	29.7	0.90
26.80	26.71	15.2	0.54	0.15	15.2	3.53	4	116	1.53	1.01	13.6	13.5	3.92	3	2.96	14.9	0.00	14.9	3	0.03	1	55.67	0.62	274.1	531.8	508		185	4.57	4.5	1.8	0.98	0.97	30.0	0.98
26.90	26.85	15.5	0.47	0.15	15.5	3.01	5	115	1.54	1.01	13.8	13.7	3.33	3	2.91	15.1	0.00	15.1	4	0.03	1	52.66	0.62	274.1	520.6	483		191	4.65	4.6	2.1	1.00	0.98	30.1	1.00
27.00	26.98	14.4	0.37	0.15	14.4	2.57	5	113	1.55	1.02	12.6	12.6	2.87	3	2.90	14.0	0.00	14.0	4	0.03	1	52.20	0.63	274.1	496.9	432		161	4.28	4.2	2.5	0.92	0.90	29.7	0.92
27.20	27.10	12.8	0.34	0.15	12.8	2.67	5	112	1.55	1.02	11.0	11.0	3.03	3	2.96	12.4	0.00	12.4	3	0.03	1	56.08	0.64	274.2	483.8	407		124	3.76	3.7	2.3	0.80	0.79	29.1	0.80
27.30	27.24	12.4	0.34	0.15	12.4	2.74	5	112	1.56	1.02	10.6	10.6	3.13	3	2.99	12.0	0.00	12.0	3	0.04	1	57.53	0.64	274.2	481.8	403		115	3.62	3.5	2.3	0.78	0.76	28.9	0.78

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Z_b (ft)	Z_m (ft)	q_c (tsf)	f_s (tsf)	u_2 (tsf)	q_t (tsf)	R_f	SBT	γ (pcf)	σ_{v0} (tsf)	σ_{v0}' (tsf)	Q_t	Q_{tn}	F_R	SBT_n	I_c	q_{c1N}	K_c	$Q_{m,cs}$	$(SBT)_{Ic}$	B_q	$(SBT)_{Bq}$	F_C (%)	c	R	V_s (ft/s)	G_0 (tsf)	E' (tsf)	M (tsf)	σ_p' (tsf)	OCR	S_t	S_u (tsf)	S_u/σ_{v0}'	φ (°)	c' (tsf)
27.40	27.38	12.8	0.32	0.15	12.8	2.51	5	111	1.57	1.03	11.0	10.9	2.86	3	2.95	12.4	0.00	12.4	3	0.03	1	55.32	0.64	274.2	479.9	399		123	3.75	3.6	2.5	0.80	0.78	29.0	0.80
27.60	27.50	13.1	0.33	0.15	13.1	2.52	5	112	1.58	1.03	11.2	11.2	2.85	3	2.94	12.6	0.00	12.6	4	0.03	1	54.78	0.64	274.2	483.4	405		129	3.85	3.7	2.5	0.82	0.80	29.1	0.82
27.70	27.64	12.2	0.30	0.15	12.2	2.42	5	111	1.58	1.03	10.3	10.3	2.77	3	2.97	11.8	0.00	11.8	3	0.04	1	56.26	0.64	274.2	471.2	382		110	3.55	3.4	2.6	0.76	0.73	28.7	0.76
27.80	27.76	11.5	0.29	0.15	11.5	2.54	5	110	1.59	1.04	9.6	9.6	2.94	3	3.01	11.0	0.00	11.0	3	0.04	1	58.98	0.65	274.2	466.6	373		95	3.31	3.2	2.4	0.71	0.68	28.4	0.71
28.00	27.90	11.5	0.30	0.16	11.5	2.64	5	111	1.60	1.04	9.5	9.5	3.06	3	3.02	11.0	0.00	11.0	3	0.04	1	59.78	0.65	274.2	469.9	380		94	3.30	3.2	2.3	0.71	0.68	28.4	0.71
28.10	28.04	11.4	0.30	0.16	11.4	2.67	5	111	1.61	1.04	9.4	9.4	3.10	3	3.03	10.9	0.00	10.9	3	0.04	1	60.32	0.65	274.2	469.7	379		92	3.27	3.1	2.3	0.70	0.67	28.3	0.70
28.20	28.17	11.2	0.31	0.16	11.2	2.74	4	111	1.61	1.05	9.2	9.2	3.19	3	3.04	10.7	0.00	10.7	3	0.04	1	61.38	0.65	274.2	469.4	379		88	3.20	3.1	2.2	0.69	0.66	28.2	0.69
28.30	28.30	17.7	0.32	0.16	17.8	2.62	5	115	1.62	1.05	15.4	15.4	1.99	4	2.74	16.9	0.00	16.9	4	0.03	1	42.70	0.61	274.1	503.2	452		226	5.38	5.1	3.6	1.15	1.10	30.7	1.15
28.50	28.43	19.1	0.33	0.16	19.2	2.75	5	116	1.63	1.05	16.7	16.6	1.91	4	2.70	18.2	0.00	18.2	4	0.02	1	40.64	0.61	274.1	511.7	472		245	5.84	5.5	3.7	1.25	1.19	31.0	1.25
28.60	28.57	11.9	0.35	0.16	11.9	2.91	4	112	1.64	1.06	9.8	9.8	3.36	3	3.03	11.3	0.00	11.3	3	0.04	1	60.79	0.65	274.2	483.8	406		101	3.44	3.3	2.1	0.74	0.70	28.5	0.74
28.80	28.69	12.0	0.38	0.16	12.1	3.12	4	112	1.64	1.06	9.8	9.8	3.60	3	3.05	11.4	0.00	11.4	3	0.04	1	61.79	0.65	274.2	490.9	421		103	3.48	3.3	2.0	0.74	0.70	28.5	0.74
28.90	28.82	12.1	0.41	0.16	12.1	3.40	4	113	1.65	1.06	9.9	9.9	3.93	3	3.07	11.4	0.00	11.4	3	0.04	1	63.26	0.65	274.2	499.1	438		104	3.50	3.3	1.8	0.75	0.71	28.5	0.75
29.00	28.94	12.9	0.61	0.17	12.9	4.69	3	116	1.66	1.07	10.6	10.6	5.38	3	3.13	12.1	0.00	12.1	3	0.04	1	67.57	0.64	274.2	536.9	520		119	3.75	3.5	1.3	0.80	0.76	28.9	0.80
29.10	29.07	16.0	0.69	0.17	16.0	4.37	3	118	1.66	1.07	13.4	13.4	4.80	3	3.02	15.0	0.00	15.0	3	0.03	1	59.66	0.62	274.1	564.2	582		192	4.77	4.5	1.5	1.02	0.96	30.0	1.02
29.30	29.22	33.7	0.67	0.17	33.7	3.12	5	123	1.67	1.07	29.8	29.9	2.10	5	2.50	31.5	2.76	89.8	5	0.01	1	30.78	0.57	274.0	608.9	707	547	448	1.07	0.8				33.8	0.02
29.40	29.36	20.2	0.81	0.18	20.2	4.03	4	119	1.68	1.08	17.2	17.2	4.39	3	2.91	18.8	0.00	18.8	4	0.02	1	52.54	0.61	274.1	599.3	667		260	6.18	5.7	1.6	1.32	1.23	31.2	1.32
29.50	29.47	20.6	0.89	0.19	20.6	4.34	4	120	1.69	1.08	17.5	17.6	4.71	3	2.92	19.1	0.00	19.1	4	0.02	1	53.41	0.60	274.1	610.8	697		265	6.31	5.9	1.5	1.35	1.25	31.3	1.35
29.70	29.60	22.9	0.95	0.19	22.9	4.14	4	121	1.70	1.08	19.5	19.6	4.47	3	2.87	21.2	0.00	21.2	4	0.02	1	50.22	0.60	274.0	625.9	736		297	7.07	6.5	1.6	1.51	1.40	31.8	1.51
29.80	29.73	23.8	1.23	0.19	23.8	5.15	3	123	1.70	1.09	20.3	20.4	5.55	3	2.92	22.0	0.00	22.0	4	0.02	1	53.32	0.59	274.0	659.7	831		310	7.37	6.8	1.3	1.58	1.46	32.0	1.58
29.90	29.87	29.2	1.31	0.19	29.2	4.52	4	124	1.71	1.09	25.2	25.3	4.78	3	2.81	26.9	0.00	26.9	4	0.02	1	46.49	0.58	274.0	685.1	905		385	9.17	8.4	1.5	1.96	1.81	33.0	1.96
30.10	30.01	44.1	1.06	0.18	44.1	3.85	5	127	1.72	1.10	38.6	39.0	2.49	5	2.46	40.6	2.57	100.7	5	0.01	1	29.05	0.55	273.9	683.1	921	688	593	1.15	1.0				35.1	0.02
30.20	30.14	17.8	0.93	0.18	17.8	5.30	3	120	1.73	1.10	14.6	14.6	5.81	3	3.04	16.3	0.00	16.3	3	0.03	1	61.39	0.62	274.1	607.0	689		225	5.35	4.9	1.2	1.15	1.04	30.4	1.15
30.30	30.27	17.2	0.94	0.19	17.3	5.48	3	120	1.74	1.11	14.0	14.1	6.06	3	3.07	15.7	0.00	15.7	3	0.03	1	63.09	0.62	274.1	606.0	686		217	5.17	4.7	1.2	1.11	1.01	30.2	1.11
30.50	30.41	21.6	1.05	0.19	21.6	4.85	3	122	1.75	1.11	17.9	18.0	5.28	3	2.95	19.6	0.00	19.6	4	0.02	1	55.04	0.60	274.1	635.5	763		278	6.61	6.0	1.3	1.42	1.28	31.4	1.42
30.60	30.54	23.5	1.12	0.19	23.6	4.78	3	122	1.75	1.11	19.6	19.7	5.15	3	2.91	21.4	0.00	21.4	4	0.02	1	52.70	0.60	274.0	651.3	806		306	7.27	6.6	1.4	1.56	1.41	31.8	1.56
30.70	30.66	21.9	0.99	0.19	21.9	4.51	3	121	1.76	1.12	18.1	18.2	4.90	3	2.92	19.8	0.00	19.8	4	0.02	1	53.48	0.60	274.1	630.9	749		282	6.72	6.1	1.4	1.44	1.30	31.5	1.44
30.80	30.79	20.4	0.95	0.19	20.5	4.64	3	121	1.77	1.12	16.7	16.8	5.07	3	2.96	18.5	0.00	18.5	3	0.02	1	55.80	0.61	274.1	621.5	724		262	6.23	5.6	1.4	1.34	1.20	31.1	1.34
31.00	30.92	20.3	0.90	0.20	20.4	4.41	3	120	1.78	1.12	16.5	16.6	4.83	3	2.95	18.3	0.00	18.3	4	0.02	1	55.08	0.61	274.1	615.5	708		260	6.20	5.5	1.5	1.33	1.19	31.0	1.33
31.10	31.06	19.8	0.81	0.20	19.8	4.08	4	119	1.79	1.13	16.0	16.1	4.48	3	2.94	17.8	0.00	17.8	4	0.03	1	54.43	0.61	274.1	602.6	674		253	6.02	5.4	1.6	1.29	1.15	30.9	1.29
31.30	31.19	19.7	0.75	0.20	19.7	3.82	4	119	1.79	1.13	15.9	16.0	4.19	3	2.92	17.7	0.00	17.7	4	0.03	1	53.46	0.61	274.1	595.0	654		251	5.98	5.3	1.7	1.28	1.14	30.8	1.28
31.40	31.32	19.7	0.70	0.20	19.7	3.55	4	118	1.80	1.14	15.8	15.9	3.90	3	2.91	17.6	0.00	17.6	4	0.03	1	52.32	0.61	274.1	588.2	636		251	5.98	5.3	1.8	1.28	1.14	30.8	1.28
31.50	31.44	17.5	0.59	0.21	17.5	3.38	4	117	1.81	1.14	13.8	13.9	3.76	3	2.94	15.6	0.00	15.6	4	0.03	1	54.67	0.62	274.1	563.1	575		218	5.23	4.6	1.9	1.12	0.99	30.2	1.12
31.60	31.58	15.9	0.60	0.21	15.9	3.80	4	117	1.82	1.14	12.3	12.4	4.28	3	3.01	14.1	0.00	14.1	3	0.03	1	59.47	0.63	274.1	558.5	565		175	4.69	4.1	1.7	1.01	0.89	29.6	1.01
31.80	31.70	16.0	0.70	0.21	16.0	4.39	3	118	1.82	1.15	12.4	12.4	4.94	3	3.05	14.2	0.00	14.2	3	0.03	1	62.08	0.63	274.1	573.9	603		176	4.72	4.1	1.4	1.01	0.89	29.6	1.01
31.90	31.83	32.6	0.68	0.21	32.7	3.32	5	123	1.83	1.15	26.8	27.4	2.20	4	2.54	29.0	2.94	87.3	5	0.02	1	32.32	0.57	274.0	610.6	712	550	432	1.15	0.6				33.4	0.01
32.00	31.97	22.3	0.88	0.21	22.4	3.93	4	120	1.84	1.15	17.8	18.0	4.27	3	2.89	19.7	0.00	19.7	4	0.02	1	51.36	0.60	274.1	623.0	725		287	6.84	6.0	1.7	1.47	1.28	31.4	1.47
32.20	32.10	18.3	0.85	0.21	18.3	4.67	3	120	1.85	1.16	14.2	14.3	5.17	3	3.02	16.1	0.00	16.1	3	0.03	1	59.68	0.62	274.1	605.4	681		231	5.49	4.8	1.4	1.18	1.02	30.3	1.18
32.30	32.23	14.1	0.66	0.22	14.1	4.77	3	117	1.85	1.16	10.6	10.6	5.40	3	3.13	12.4	0.00	12.4	3	0.04	1	67.61	0.64	274.2	561.0	573		131	4.10	3.5	1.3	0.88	0.76	28.9	0.88
32.40	32.36	13.9	0.55	0.22	14.0	3.96	3	116	1.86	1.16	10.4	10.4	4.56	3	3.09	12.2	0.00	12.2	3	0.04	1	64.78	0.64	274.2	543.0	530		126	4.03	3.5	1.6	0.86	0.75	28.8	0.86
32.60	32.49	13.8	0.49	0.22	13.8	3.57	4	115	1.87	1.17	10.2	10.3	4.12	3	3.07	12.0	0.00	12.0	3	0.04	1	63.27	0.64	274.2	532.4	505		123	3.98	3.4	1.7	0.85	0.74	28.7	0.85
32.70	32.62	14.0	0.47	0.22	14.0	3.37	4	114	1.88	1.17	10.3	10.4	3.88	3	3.05	12.2	0.00	12.2	3	0.04	1	61.88	0.64	274.2	529.8	499		126	4.04	3.5	1.8	0.87	0.74	28.8	0.87
32.80	32.75	14.0	0.46	0.22	14.0	3.31	4	114	1.88	1.17	10.4	10.4	3.82	3	3.05	12.2	0.00	12.2	3	0.04	1	61.58	0.64	274.2	529.3	498		127	4.05	3.5	1.9	0.87	0.75	28.8	0.87
33.00	32.89	14.4	0.48	0.22	14.4	3.31	4	115	1.89	1.18	10.6	10.7	3.80	3	3.03	12.5	0.00	12.5	3	0.04	1	60.81	0.64	274.2	533.7	507		135	4.18	3.6	1.9	0.90	0.77	28.9	0.90
33.10	33.02	15.3	0.53	0.23	15.4	3.48	4	116	1.90	1.18	11.4	11.5	3.96	3	3.02	13.3	0.00	13.3	3	0.04	1	59.93	0.63	274.2	548.5	540		155	4.49	3.8	1.8	0.96	0.82	29.3	0.96
33.20	33.15	17.0	0.63	0.23	17.1	3.70	4	117	1.91	1.19	12.8	12.9	4.16	3	2.99	14.7	0.00	14.7	3	0.03	1	58.10	0.62	274.1	572.1	596		196	5.05	4.3	1.7	1.08	0.92	29.8	1.08
33.40	33.29	17.2	0.71	0.23	17.3	4.12	4	118	1.92	1.19	12.9	13.0	4.62	3	3.02	14.9	0.00	14.9	3	0.03	1	59.81	0.62	274.1	584.8	627		200	5.11	4.3	1.5	1.10	0.93	29.9	1.10
33.50	33.42	16.0	0.73	0.23	16.0	4.56	3	118	1.92	1.19	11.8	11.9	5.17	3	3.08	13.8	0.00	13.8	3	0.04	1	64.00	0.63	274.1	582.8	623		169	4.71	4.0	1.4	1.01	0.85	29.4	1.01
33.60	33.54	16.5	0.70	0.23	16.6	4.21	3	118	1.93	1.20	12.2	12.4	4.75	3	3.05	14.2	0.00	14.2	3	0.03	1	61.57	0.63	274.1	580.8	618		181	4.88	4.1	1.5	1.05	0.88	29.6	1.05
33.80	33.67	30.5	0.75	0.24	30.5	3.57	5	123	1.94	1.20	23.8	24.4	2.62	4	2.66	26.2	0.00	26.2	4	0.02	1	38.28	0.58	274.0	635.0	769		400	9.53	8.1	2.7	2.04	1.74	32.9	2.04
33.90	33.81	39.2	0.81	0.24	39.3	3.38	5	125	1.95	1.20	31.0	32.0	2.18	5	2.48	33.8	2.65	92.4	5	0.01	1	29.78	0.56	273.9	648.0	814	619	522	1.20	0.8				34.2	0.02
34.00	33.93	25.6	1.16	0.24	25.6	4.53	4	123	1.95	1.21	19.6	19.9	4.89	3	2.90	21.8	0.00	21.8	4	0.02	1	51.78	0.59	274.0	672.1	861		331	7.89	6.6	1.5	1.69	1.42	31.9	1.69
34.10	34.07	25.2	1.27	0.24	25.2	5.06	3	123	1.96	1.21	19.2	19.5	5.48	3	2.94	21.4	0.00	21.4	4	0.02	1	54.30	0.59	274.0	682.7	894		325	7.74	6.5	1.3	1.66	1.39	31.8	1.66
34.30	34.20	25.7	1.25	0.24	25.7	4.88	3	123	1.97	1.22	19.5	19.9	5.27	3	2.92	21.8	0.00	21.8	4	0.02	1	53.18	0.59	274.0	682.8	894		333	7.92	6.6	1.3	1.70	1.42	31.9	1.70
34.40	34.33	32.8	1.39	0.25	32.9	4.27	4	125	1.98	1.22	25.3	25.9	4.48	3	2.79	27.9	0.00	27.9	4	0.02	1	45.30	0.57	274.0	716.8	996		433	10.30	8.6	1.6	2.21	1.85	33.1	2.21
34.50	34.46	53.3	1.10	0.24	53.3	3.33	6	128	1.99	1.22	41.9	43.7	2.15	5	2.38	45.7	2.21	105.1	5	0.01	1	25.46	0.54	273.9	711.7	1,006	747	718	1.39	1.1				35.6	0.03
34.70	34.60	22.3	0.90	0.24	22.4	4.07	4	121	2.00	1.23	16.6	16.9	4.40	3	2.92	18.8	0.00	18.8	4	0.03	1	53.37	0.60	274.1	633.5	752		285	6.79	5.6	1.6	1.46	1.21	31.1	1.46
34.80	34.73	16.2	0.84	0.24	16.2	5.24	3	119	2.00	1.23	11.5	11.6	5.95	3	3.13	13.5	0.00	13.5	3	0.04	1	67.48	0.63	274.1	602.1	672		165	4.73	3.9	1.2	1.01	0.83	29.3	1.01
34.90	34.85	16.7	1.07	0.25	16.7	6.43	3	121	2.01	1.24	11.9	12.0	7.29	3	3.17	14.0	0.00	14.0	3	0.04	1	70.92	0.63	274.1	631.3	750		176	4.91	4.0	1.0	1.05	0.86	29.5	1.05
35.10	34.99	27.3	1.78	0.25	27.4	6.70	3	126	2.02	1.24	20.5	20.8	7.01	3	2.99	22.9	0.00	22.9	3	0.02	1	57.69	0.59	274.0	737.1	1,067		355	8.45	6.9	1.0	1.81	1.48	32.1	1.81
35.20	35.12	39.2	2.17	0.25	39.2	6.28	3	129	2.03	1.24	29.9	30.6	5.83	3	2.81	33.0	0.00	33.0	4	0.01	1	46.84	0.56	274.0	799.5	1,286		520	12.39	10.2	1.2	2.66	2.19	33.9	2.66
35.30	35.24	74.1	2.74	0.25	74.2	3.72	5	132	2.04	1.25	57.8	60.3	3.80	4	2.45	63.5	2.51	129.7	5	0.01	1	28.44	0.51	273.8	883.5	1,600	1,151	1,010	2.02	1.6				37.2	0.04
35.40	35.38	104.9	2.85	0.26	104.9	2.74	6	133	2.05	1.25	82.1	86.6	2.77	5	2.25	90.8	1.78	156.6	5	0.01	1	20.59	0.49	273.8	928.3	1,782	1,271	1,440	2.88	2.3				38.9	0.06
35.60	35.51	130.7	2.84	0.26	130.7	2.18	7	134	2.05	1.26	102.3	108.8	2.21	5	2.11	113.9	1.46	174.6	5	0.00	1	16.09	0.47	273.7	951.7	1,880	1,335	2,671	3.54	2.8				40.0	0.07
35.70	35.64	164.7	2.43	0.26	164.8	1.49	8	133	2.06	1.26	128.9	138.7	1.49	6	1.92	144.7	1.20	176.4	6	0.00	1	10.81	0.46	273.7	947.6	1,856	1,324	2,648	4.34	3.4				41.2	0.09
35.80	35.77	187.9	1.68	0.25	188.0	0.90	9	131	2.07	1.27	146.7	159.8	0.90	6	1.72	165.9	1.05	165.9	6	0.00	1	6.56	0.45	273.6	895.9	1,628	1,183	2,367	4.85	3.8				41.8	0.10
36.00	35.91	184.6	1.14	0.25	184.7	0.62	9	128	2.08	1.27	143.6	157.4	0.63	6	1.63	162.6	1.00	162.6	6	0.00	1	4.79	0.45	273.6	834.5	1,380	1,027	2,054	4.79	3.8				41.8	0.10
36.10	36.03	178.1	1.04	0.25	178.1	0.59	9	127	2.09	1.28	138.0	151.5	0.59	6	1.62	156.4	1.00	156.4	6	0.00	1	4.75	0.45	273.6	818.3	1,319	987	1,975	4.65	3.6				41.6	0.09
36.20	36.16	183.1	1.04	0.25	183.1	0.57	9	127	2.10	1.28	141.5	155.6	0.57	6	1.61	160.8	1.00	160.8	6	0.00	1	4.44	0.45	273.6	820.4	1,326	992	1,985	4.76	3.7				41.7	0.10
36.40	36.30	186.2	1.21	0.25	186.3	0.65	9	128	2.10	1.28	143.4	158.0	0.66	6	1.64	163.4	1.00	163.4	6	0.00	1	4.99	0.45	273.6	844.4	1,418	1,051	2,103	4.83	3.8				41.8	0.10

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Z_b (ft)	Z_m (ft)	q_c (tsf)	f_s (tsf)	u_2 (tsf)	q_t (tsf)	R_f	SBT	γ (pcf)	σ_{v0} (tsf)	σ_{v0}' (tsf)	Q_t	Q_{tn}	F_R	SBT_n	I_c	q_{c1N}	K_c	$Q_{m,cs}$	$(SBT)_{Ic}$	B_q	$(SBT)_{Bq}$	F_C (%)	c	R	V_s (ft/s)	G_0 (tsf)	E' (tsf)	M (tsf)	σ_p' (tsf)	OCR	S_t	S_u (tsf)	S_u/σ_{v0}'	φ (°)	c' (tsf)
36.50	36.43	185.0	1.66	0.24	185.0	0.90	9	130	2.11	1.29	142.0	155.8	0.91	6	1.73	162.1	1.05	162.1	6	0.00	1	6.73	0.45	273.6	893.7	1,618	1,178	2,355	4.80	3.7				41.7	0.10
36.60	36.56	167.2	2.12	0.24	167.2	1.27	8	132	2.12	1.29	127.7	139.2	1.28	6	1.87	145.5	1.15	163.2	6	0.00	1	9.65	0.46	273.7	925.7	1,757	1,263	2,527	4.40	3.4				41.2	0.09
36.70	36.69	151.0	2.51	0.23	151.0	1.66	8	133	2.13	1.30	114.7	124.4	1.69	6	1.99	130.5	1.27	176.4	6	0.00	1	12.57	0.46	273.7	946.7	1,852	1,321	2,643	4.02	3.1				40.6	0.08
36.90	36.82	143.3	2.73	0.12	143.3	1.91	7	133	2.14	1.30	108.4	117.3	1.93	5	2.05	123.4	1.36	178.1	6	0.01	1	14.20	0.47	273.7	957.3	1,901	1,351	2,703	3.84	2.9				40.4	0.08
37.00	36.95	141.5	2.50	-0.15	141.5	1.77	8	133	2.15	1.31	106.6	115.6	1.80	5	2.03	121.5	1.33	173.1	6	0.01	1	13.67	0.47	273.7	939.6	1,822	1,302	2,604	3.80	2.9				40.3	0.08
37.20	37.09	136.0	1.94	-0.32	136.0	1.43	8	131	2.16	1.31	102.0	111.2	1.45	6	1.97	116.4	1.26	157.7	6	0.01	1	12.23	0.47	273.7	890.3	1,611	1,169	2,337	3.67	2.8				40.1	0.07
37.30	37.22	127.4	1.62	-0.37	127.3	1.27	8	129	2.17	1.32	95.1	103.9	1.29	6	1.96	108.4	1.24	145.9	6	0.01	1	11.88	0.48	273.7	853.8	1,464	1,075	2,150	3.46	2.6				39.8	0.07
37.40	37.34	124.8	1.45	-0.58	124.7	1.16	8	128	2.17	1.32	92.8	101.6	1.18	6	1.94	105.9	1.22	138.9	6	0.01	1	11.38	0.48	273.7	834.2	1,388	1,026	2,052	3.39	2.6				39.7	0.07
37.60	37.49	104.3	1.41	-0.74	104.2	1.36	8	128	2.18	1.32	77.0	83.9	1.38	6	2.04	87.6	1.35	135.7	6	0.02	1	14.18	0.49	273.8	813.3	1,313	975	1,951	2.86	2.2				38.8	0.06
37.70	37.62	77.3	1.34	-0.77	77.2	1.75	7	127	2.19	1.33	56.4	60.8	1.79	5	2.22	63.8	1.70	121.4	5	0.02	1	19.57	0.51	273.8	777.9	1,191	892	1,050	2.09	1.6				37.2	0.04
37.80	37.74	51.4	1.09	-0.77	51.3	2.11	6	124	2.20	1.33	36.8	39.2	2.22	5	2.41	41.6	2.35	100.8	5	0.03	1	26.89	0.54	273.9	711.9	976	747	687	1.33	1.0				35.1	0.03
37.90	37.87	37.0	0.80	-0.77	36.8	2.16	6	121	2.21	1.34	25.9	27.3	2.31	4	2.53	29.5	2.94	87.8	5	0.05	1	32.27	0.57	274.0	646.5	785	616	485	1.34	0.6				33.4	0.02
38.10	38.00	28.5	0.63	-0.77	28.3	2.22	6	118	2.21	1.34	19.5	20.3	2.42	4	2.71	22.4	0.00	22.4	4	0.06	1	40.82	0.59	274.0	625.9	721		366	8.71	6.8	2.9	1.87	1.45	32.0	1.87
38.20	38.14	23.8	0.51	-0.75	23.7	2.14	6	116	2.22	1.34	16.0	16.6	2.37	4	2.77	18.7	0.00	18.7	4	0.08	1	44.36	0.60	274.1	591.4	632		301	7.16	5.5	3.0	1.53	1.19	31.0	1.53
38.30	38.27	23.5	0.49	-0.74	23.4	2.10	6	116	2.23	1.35	15.7	16.3	2.33	4	2.77	18.4	0.00	18.4	4	0.08	1	44.50	0.61	274.1	587.7	623		296	7.05	5.4	3.0	1.51	1.16	30.9	1.51
38.50	38.40	22.5	0.53	-0.72	22.4	2.34	6	116	2.24	1.35	14.9	15.4	2.61	4	2.82	17.5	0.00	17.5	4	0.08	1	47.20	0.61	274.1	590.4	630		282	6.71	5.1	2.7	1.44	1.10	30.7	1.44
38.60	38.53	22.1	0.56	-0.72	22.0	2.52	5	117	2.25	1.35	14.6	15.1	2.82	4	2.85	17.2	0.00	17.2	4	0.08	1	48.83	0.61	274.1	594.8	642		276	6.57	5.0	2.5	1.41	1.08	30.6	1.41
38.70	38.67	20.6	0.55	-0.72	20.5	2.69	5	117	2.25	1.36	13.4	13.9	3.04	3	2.90	16.0	0.00	16.0	4	0.09	1	51.72	0.62	274.1	589.7	630		253	6.08	4.6	2.3	1.30	0.99	30.2	1.30
38.90	38.80	19.3	0.55	-0.72	19.2	2.85	5	116	2.26	1.36	12.4	12.8	3.25	3	2.94	15.0	0.00	15.0	4	0.10	1	54.54	0.62	274.1	584.2	617		216	5.64	4.3	2.2	1.21	0.91	29.8	1.21
39.00	38.94	18.3	0.53	-0.71	18.2	2.90	5	116	2.27	1.37	11.7	12.0	3.34	3	2.97	14.2	0.00	14.2	3	0.10	1	56.42	0.63	274.1	577.1	600		191	5.31	4.0	2.1	1.14	0.85	29.5	1.14
39.10	39.07	18.1	0.54	-0.71	18.0	2.99	5	116	2.28	1.37	11.5	11.8	3.45	3	2.98	14.0	0.00	14.0	3	0.10	1	57.36	0.63	274.1	578.1	603		184	5.23	3.9	2.1	1.12	0.84	29.4	1.12
39.20	39.19	20.6	0.59	-0.71	20.5	2.87	5	117	2.28	1.37	13.2	13.6	3.24	3	2.92	15.9	0.00	15.9	4	0.09	1	53.06	0.62	274.1	596.5	647		248	6.06	4.5	2.2	1.30	0.97	30.1	1.30
39.40	39.31	27.6	0.69	-0.71	27.5	2.49	6	119	2.29	1.38	18.3	19.1	2.73	4	2.76	21.3	0.00	21.3	4	0.06	1	43.69	0.59	274.0	636.0	748		353	8.41	6.4	2.6	1.80	1.37	31.7	1.80
39.50	39.46	33.1	0.78	-0.71	33.0	2.37	6	120	2.30	1.38	22.2	23.4	2.55	4	2.67	25.6	0.00	25.6	4	0.05	1	39.11	0.58	274.0	665.0	827		430	10.24	7.8	2.8	2.19	1.67	32.7	2.19
39.60	39.59	36.2	0.86	-0.71	36.1	2.38	6	121	2.31	1.38	24.4	25.8	2.56	4	2.64	28.1	0.00	28.1	4	0.05	1	37.49	0.57	274.0	684.0	882		473	11.27	8.6	2.8	2.42	1.84	33.1	2.42
39.80	39.71	35.4	1.03	-0.71	35.2	2.93	6	123	2.31	1.39	23.7	24.9	3.14	4	2.71	27.3	0.00	27.3	4	0.05	1	40.91	0.58	274.0	703.7	944		461	10.98	8.3	2.3	2.35	1.78	33.0	2.35
39.90	39.84	31.2	0.97	-0.71	31.1	3.10	5	122	2.32	1.39	20.7	21.6	3.36	4	2.77	24.0	0.00	24.0	4	0.06	1	44.45	0.58	274.0	685.3	889		403	9.60	7.2	2.1	2.06	1.54	32.3	2.06
40.00	39.97	27.4	0.91	-0.71	27.3	3.33	5	121	2.33	1.40	17.9	18.6	3.65	3	2.85	20.8	0.00	20.8	4	0.07	1	48.65	0.60	274.0	667.7	838		349	8.31	6.2	1.9	1.78	1.33	31.6	1.78
40.20	40.10	24.6	0.87	-0.71	24.4	3.55	5	120	2.34	1.40	15.8	16.3	3.95	3	2.91	18.7	0.00	18.7	4	0.07	1	52.52	0.60	274.1	654.4	801		310	7.37	5.4	1.8	1.58	1.17	30.9	1.58
40.30	40.22	24.1	0.86	-0.71	24.0	3.57	5	120	2.35	1.40	15.4	15.9	3.98	3	2.92	18.3	0.00	18.3	4	0.08	1	53.20	0.61	274.1	651.4	793		303	7.20	5.3	1.8	1.54	1.14	30.8	1.54
40.40	40.36	24.0	0.94	-0.71	23.9	3.92	4	121	2.35	1.41	15.3	15.8	4.37	3	2.95	18.2	0.00	18.2	4	0.08	1	54.94	0.61	274.1	661.8	823		302	7.18	5.3	1.6	1.54	1.13	30.8	1.54
40.60	40.50	25.2	1.06	-0.71	25.1	4.19	4	122	2.36	1.41	16.1	16.6	4.65	3	2.95	19.0	0.00	19.0	4	0.07	1	54.98	0.60	274.1	679.7	875		318	7.57	5.5	1.5	1.62	1.19	31.0	1.62
40.70	40.63	25.5	1.13	-0.71	25.4	4.42	4	122	2.37	1.41	16.3	16.8	4.90	3	2.96	19.2	0.00	19.2	3	0.07	1	55.72	0.60	274.1	688.8	903		322	7.67	5.6	1.4	1.64	1.20	31.1	1.64
40.80	40.76	25.5	1.16	-0.71	25.4	4.57	4	123	2.38	1.42	16.2	16.7	5.06	3	2.97	19.2	0.00	19.2	3	0.07	1	56.40	0.60	274.1	693.3	916		322	7.66	5.6	1.4	1.64	1.19	31.0	1.64
41.00	40.89	26.0	1.07	-0.71	25.9	4.14	4	122	2.39	1.42	16.5	17.0	4.58	3	2.93	19.5	0.00	19.5	4	0.07	1	54.18	0.60	274.1	685.4	891		329	7.82	5.7	1.6	1.68	1.22	31.1	1.68
41.10	41.03	25.3	1.02	-0.71	25.1	4.03	4	122	2.40	1.43	15.9	16.5	4.47	3	2.94	18.9	0.00	18.9	4	0.07	1	54.52	0.60	274.1	676.9	866		318	7.58	5.5	1.6	1.62	1.18	31.0	1.62
41.20	41.17	21.1	0.95	-0.71	20.9	4.51	3	121	2.40	1.43	13.0	13.3	5.11	3	3.05	15.7	0.00	15.7	3	0.09	1	61.61	0.62	274.1	653.6	801		246	6.18	4.4	1.4	1.32	0.95	30.0	1.32
41.30	41.29	19.0	0.87	-0.71	18.9	4.58	3	120	2.41	1.43	11.5	11.7	5.29	3	3.10	14.1	0.00	14.1	3	0.10	1	65.21	0.63	274.1	635.6	752		192	5.48	3.9	1.3	1.17	0.83	29.3	1.17
41.50	41.42	19.1	0.76	-0.71	18.9	3.98	4	119	2.42	1.44	11.5	11.8	4.59	3	3.06	14.2	0.00	14.2	3	0.10	1	62.43	0.63	274.1	621.7	713		194	5.51	3.9	1.5	1.18	0.84	29.4	1.18
41.60	41.55	23.6	0.65	-0.71	23.5	3.29	5	119	2.43	1.44	14.6	15.2	3.07	4	2.87	17.5	0.00	17.5	4	0.08	1	50.05	0.61	274.1	623.3	721		295	7.03	5.1	2.3	1.51	1.09	30.6	1.51
41.70	41.68	25.1	0.55	-0.71	25.0	2.88	5	119	2.43	1.45	15.6	16.4	2.46	4	2.79	18.6	0.00	18.6	4	0.08	1	45.33	0.60	274.1	612.7	695		316	7.52	5.5	2.9	1.61	1.17	31.0	1.61
41.90	41.82	26.2	0.53	-0.71	26.1	2.92	5	120	2.44	1.45	16.3	17.2	2.26	4	2.75	19.4	0.00	19.4	4	0.07	1	43.30	0.60	274.1	612.9	698		331	7.88	5.7	3.1	1.69	1.23	31.2	1.69
42.00	41.95	28.6	0.60	-0.71	28.5	3.32	5	121	2.45	1.45	17.9	18.9	2.29	4	2.72	21.1	0.00	21.1	4	0.07	1	41.63	0.59	274.0	630.9	751		364	8.67	6.3	3.1	1.86	1.35	31.6	1.86
42.10	42.08	18.3	0.70	-0.71	18.2	3.82	4	118	2.46	1.46	10.8	11.1	4.45	3	3.07	13.5	0.00	13.5	3	0.11	1	63.31	0.63	274.1	611.9	687		174	5.25	3.7	1.6	1.13	0.79	29.1	1.13
42.30	42.20	18.8	0.74	-0.71	18.7	3.96	4	119	2.46	1.46	11.1	11.3	4.59	3	3.07	13.8	0.00	13.8	3	0.11	1	63.30	0.63	274.1	620.2	708		184	5.40	3.8	1.5	1.16	0.81	29.2	1.16
42.40	42.32	19.3	0.81	-0.71	19.1	4.21	4	119	2.47	1.46	11.4	11.6	4.86	3	3.08	14.1	0.00	14.1	3	0.10	1	63.75	0.63	274.1	631.8	740		194	5.56	3.9	1.5	1.19	0.83	29.3	1.19
42.50	42.46	22.1	0.93	-0.71	22.0	4.20	4	121	2.48	1.47	13.3	13.7	4.76	3	3.02	16.2	0.00	16.2	3	0.09	1	59.71	0.62	274.1	658.4	812		266	6.49	4.6	1.5	1.39	0.98	30.1	1.39
42.70	42.59	26.0	1.12	-0.71	25.9	4.33	4	122	2.49	1.47	15.9	16.4	4.81	3	2.96	19.0	0.00	19.0	3	0.07	1	55.90	0.60	274.1	695.5	921		327	7.79	5.5	1.5	1.67	1.17	31.0	1.67
42.80	42.73	43.3	1.17	-0.71	43.1	3.91	5	127	2.50	1.48	27.5	29.5	2.87	4	2.63	32.2	0.00	32.2	4	0.04	1	37.01	0.56	274.0	745.5	1,096		569	13.55	9.8	2.5	2.90	2.10	33.8	2.90
42.90	42.86	49.6	1.17	-0.71	49.5	3.80	5	128	2.51	1.48	31.7	34.5	2.49	5	2.47	37.2	2.63	96.6	5	0.04	1	29.54	0.55	273.9	724.4	1,044	774	657	1.48	0.8				34.5	0.02
43.10	42.99	31.1	1.33	-0.71	31.0	4.30	4	124	2.51	1.48	19.2	20.0	4.69	3	2.89	22.6	0.00	22.6	4	0.06	1	51.47	0.59	274.0	734.4	1,041		398	9.48	6.7	1.5	2.03	1.43	31.9	2.03
43.20	43.13	35.3	1.62	-0.71	35.1	4.62	4	126	2.52	1.49	21.9	22.9	4.98	3	2.87	25.8	0.00	25.8	4	0.05	1	49.85	0.58	274.0	773.4	1,172		457	10.88	7.6	1.4	2.33	1.64	32.6	2.33
43.30	43.25	81.1	1.82	-0.71	81.0	3.65	6	133	2.53	1.49	52.6	58.4	2.31	5	2.30	62.5	1.92	123.4	5	0.02	1	22.35	0.52	273.8	836.1	1,441	1,031	1,098	2.14	1.4				37.0	0.04
43.50	43.38	48.6	2.11	-0.71	48.5	4.35	4	129	2.54	1.50	30.7	32.6	4.59	4	2.73	36.1	0.00	36.1	4	0.04	1	42.27	0.55	273.9	844.9	1,429		644	15.33	10.9	1.5	3.28	2.33	34.2	3.28
43.60	43.52	58.6	2.13	-0.71	58.4	3.65	5	129	2.55	1.50	37.2	40.0	3.80	4	2.62	43.9	0.00	43.9	4	0.03	1	36.19	0.54	273.9	865.1	1,504		783	18.63	13.3	1.9	3.99	2.86	35.2	3.99
43.70	43.66	54.1	1.71	-0.71	54.0	3.15	6	127	2.56	1.51	34.2	36.8	3.32	4	2.60	40.3	0.00	40.3	4	0.03	1	35.54	0.55	273.9	823.2	1,342		721	17.16	12.3	2.1	3.68	2.63	34.8	3.68
43.80	43.79	39.7	1.30	-0.71	39.6	3.30	5	125	2.56	1.51	24.5	26.1	3.52	4	2.73	28.9	0.00	28.9	4	0.05	1	42.05	0.57	274.0	756.0	1,108		518	12.34	8.7	2.0	2.64	1.86	33.2	2.64
44.00	43.91	27.6	0.78	-0.71	27.5	2.80	5	120	2.57	1.51	16.5	17.3	3.11	4	2.83	19.7	0.00	19.7	4	0.07	1	47.78	0.60	274.1	661.5	815		349	8.31	5.8	2.3	1.78	1.24	31.2	1.78
44.10	44.04	23.6	0.68	-0.71	23.5	2.91	5	118	2.58	1.52	13.8	14.4	3.27	3	2.91	16.8	0.00	16.8	4	0.08	1	52.36	0.61	274.1	635.1	743		293	6.97	4.8	2.2	1.49	1.03	30.3	1.49
44.20	44.17	22.1	0.71	-0.71	21.9	3.22	5	119	2.59	1.52	12.7	13.2	3.67	3	2.96	15.7	0.00	15.7	3	0.09	1	56.02	0.62	274.1	633.7	740		256	6.45	4.4	1.9	1.38	0.94	29.9	1.38
44.40	44.30	22.5	0.64	-0.71	22.4	2.84	5	118	2.59	1.52	13.0	13.5	3.23	3	2.92	16.0	0.00	16.0	4	0.09	1	53.49	0.62	274.1	624.6	714		267	6.59	4.5	2.2	1.41	0.97	30.0	1.41
44.50	44.44	20.5	0.53	-0.70	20.4	2.61	5	116	2.60	1.53	11.6	12.1	3.01	3	2.94	14.5	0.00	14.5	4	0.10	1	54.81	0.62	274.1	599.9	650		215	5.92	4.0	2.4	1.27	0.86	29.5	1.27
44.60	44.57	18.4	0.49	-0.70	18.3	2.64	5	115	2.61	1.53	10.3	10.6	3.09	3	3.00	13.0	0.00	13.0	3	0.11	1	58.18	0.63	274.2	582.8	608		167	5.24	3.5	2.3	1.12	0.76	28.9	1.12
44.80	44.70	17.3	0.48	-0.70	17.2	2.75	5	115	2.62	1.54	9.5	9.8	3.27	3	3.04	12.2	0.00	12.2	3	0.12	1	60.97	0.64	274.2	576.3	593		143	4.86	3.3	2.2	1.04	0.70	28.5	1.04
44.90	44.82	17.7	0.50	-0.70	17.6	2.84	5	115	2.63	1.54	9.7	10.0	3.37	3	3.04	12.5	0.00	12.5	3	0.12	1	60.90	0.64	274.2	583.4	610		150	4.99	3.3	2.1	1.07	0.72	28.6	1.07
45.00	44.95	18.6	0.54	-0.70	18.5	2.90	5	116	2.63	1.54	10.3	10.6	3.41	3	3.02	13.1	0.00	13.1	3	0.11	1	59.79	0.63	274.2	594.0	637		168	5.28	3.5	2.1	1.13	0.76	28.9	1.13
45.20	45.09	19.0	0.56	-0.70	18.9	2.97	5	116	2.64	1.55	10.5	10.8	3.47	3	3.02	13.3	0.00	13.3	3	0.11	1	59.61	0.63	274.1	600.0	652		176	5.40	3.6	2.0	1.16	0.77	29.0	1.16
45.30	45.22	19.0	0.55	-0.70	18.9	2.92	5	116	2.65	1.55	10.5	10.8	3.41	3	3.01	13.3	0.00	13.3	3	0.11	1	59.30	0.63	274.1	599.1	649		176	5.42	3.6	2.1	1.16	0.77	29.0	1.16
45.40	45.34	18.8	0.54	-0.70	18.7	2.85	5	116	2.66	1.55	10.3	10.7	3.34	3	3.01	13.2	0.00	13.2	3	0.11	1	59.26	0.63	274.1	595.2	639		172	5.35	3.6	2.1	1.15	0.76	28.9	1.15

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Z_b (ft)	Z_m (ft)	q_c (tsf)	f_s (tsf)	u_2 (tsf)	q_t (tsf)	R_f	SBT	γ (pcf)	σ_{v0} (tsf)	σ_{v0}' (tsf)	Q_t	Q_{tn}	F_R	SBT_n	I_c	q_{c1N}	K_c	$Q_{m,cs}$	$(SBT)_{Ic}$	B_q	$(SBT)_{Bq}$	F_C (%)	c	R	V_s (ft/s)	G_0 (tsf)	E' (tsf)	M (tsf)	σ_p' (tsf)	OCR	S_t	S_u (tsf)	S_u/σ_{v0}'	φ (°)	c' (tsf)
45.60	45.48	18.6	0.50	-0.70	18.5	2.69	5	115	2.66	1.56	10.2	10.5	3.16	3	3.00	13.0	0.00	13.0	3	0.11	1	58.79	0.63	274.2	587.8	620		166	5.27	3.5	2.2	1.13	0.75	28.8	1.13
45.70	45.62	18.4	0.48	-0.70	18.3	2.61	5	115	2.67	1.56	10.0	10.4	3.08	3	3.00	12.9	0.00	12.9	3	0.12	1	58.63	0.63	274.2	584.2	611		163	5.22	3.5	2.3	1.12	0.74	28.8	1.12
45.80	45.74	19.3	0.46	-0.70	19.1	2.40	5	115	2.68	1.56	10.5	11.0	2.81	3	2.96	13.4	0.00	13.4	3	0.11	1	55.96	0.63	274.1	584.2	610		181	5.49	3.7	2.5	1.18	0.78	29.0	1.18
46.00	45.88	20.3	0.44	-0.70	20.2	2.16	6	115	2.69	1.57	11.2	11.7	2.51	3	2.91	14.1	0.00	14.1	4	0.10	1	52.89	0.63	274.1	583.9	608		204	5.83	3.9	2.8	1.25	0.83	29.3	1.25
46.10	46.02	21.2	0.46	-0.70	21.1	2.17	6	115	2.69	1.57	11.7	12.3	2.50	4	2.90	14.7	0.00	14.7	4	0.10	1	51.73	0.62	274.1	592.1	628		226	6.13	4.1	2.8	1.31	0.88	29.6	1.31
46.20	46.15	22.2	0.52	-0.70	22.1	2.32	6	116	2.70	1.57	12.3	12.9	2.66	4	2.89	15.4	0.00	15.4	4	0.09	1	51.59	0.62	274.1	606.6	664		250	6.45	4.3	2.7	1.38	0.92	29.8	1.38
46.30	46.27	23.0	0.57	-0.70	22.8	2.46	5	117	2.71	1.58	12.8	13.4	2.81	3	2.89	15.9	0.00	15.9	4	0.09	1	51.58	0.62	274.1	618.5	695		270	6.71	4.5	2.5	1.44	0.96	30.0	1.44
46.50	46.40	22.6	0.62	-0.70	22.5	2.76	5	118	2.72	1.58	12.5	13.1	3.15	3	2.93	15.6	0.00	15.6	4	0.09	1	53.93	0.62	274.1	627.0	719		258	6.58	4.4	2.3	1.41	0.93	29.9	1.41
46.60	46.52	21.8	0.66	-0.70	21.7	3.04	5	118	2.72	1.58	12.0	12.5	3.49	3	2.97	15.0	0.00	15.0	3	0.10	1	56.59	0.62	274.1	630.6	729		236	6.32	4.2	2.0	1.35	0.89	29.7	1.35
46.70	46.66	21.8	0.71	-0.70	21.7	3.24	5	119	2.73	1.59	11.9	12.4	3.73	3	2.99	15.0	0.00	15.0	3	0.10	1	57.79	0.62	274.1	637.6	749		235	6.31	4.1	1.9	1.35	0.89	29.6	1.35
46.90	46.80	22.0	0.92	-0.70	21.9	4.18	4	121	2.74	1.59	12.0	12.4	4.81	3	3.06	15.1	0.00	15.1	3	0.10	1	62.27	0.62	274.1	667.8	835		237	6.38	4.1	1.5	1.37	0.88	29.6	1.37
47.00	46.94	27.8	1.48	-0.70	27.7	5.28	3	125	2.75	1.60	15.6	16.2	5.92	3	3.02	19.1	0.00	19.1	3	0.07	1	60.18	0.60	274.1	748.5	1,085		349	8.32	5.4	1.2	1.78	1.16	30.9	1.78
47.10	47.06	65.9	2.13	-0.70	65.8	4.33	5	132	2.76	1.60	39.4	43.6	3.39	4	2.49	47.7	2.69	110.3	5	0.03	1	30.08	0.53	273.9	845.7	1,465	1,055	882	1.62	1.0				35.6	0.03
47.30	47.18	95.3	2.48	-0.70	95.1	3.75	6	134	2.76	1.60	57.6	65.3	2.68	5	2.30	71.0	1.94	134.4	5	0.02	1	22.59	0.51	273.8	911.1	1,735	1,224	1,293	2.50	1.6				37.6	0.05
47.40	47.32	113.3	2.62	-0.70	113.2	3.72	6	136	2.77	1.61	68.6	78.7	2.37	5	2.21	85.7	1.69	148.2	5	0.02	1	19.39	0.49	273.8	940.7	1,872	1,305	1,546	3.01	1.9				38.5	0.06
47.50	47.45	54.0	2.64	-0.70	53.9	5.05	4	131	2.78	1.61	31.7	33.9	5.17	3	2.76	38.2	0.00	38.2	4	0.04	1	43.74	0.55	273.9	905.7	1,670		715	17.03	11.3	1.4	3.65	2.42	34.4	3.65
47.70	47.59	34.7	2.07	-0.70	34.6	5.92	3	128	2.79	1.62	19.6	20.5	6.50	3	2.98	23.7	0.00	23.7	3	0.06	1	57.06	0.58	274.0	820.1	1,335		445	10.59	6.8	1.1	2.27	1.46	32.0	2.27
47.80	47.72	30.2	1.40	-0.70	30.0	4.65	4	125	2.80	1.62	16.8	17.5	5.15	3	2.96	20.4	0.00	20.4	3	0.07	1	55.95	0.60	274.0	751.4	1,092		381	9.08	5.8	1.4	1.95	1.25	31.3	1.95
47.90	47.84	44.9	1.15	-0.70	44.8	3.72	5	127	2.81	1.63	25.8	28.1	2.74	4	2.64	31.1	0.00	31.1	4	0.04	1	37.48	0.56	274.0	761.9	1,144		587	13.99	9.4	2.6	3.00	2.01	33.5	3.00
48.00	47.97	44.3	1.06	-0.70	44.2	3.83	5	127	2.82	1.63	25.4	27.7	2.56	4	2.63	30.6	0.00	30.6	4	0.05	1	36.86	0.57	274.0	750.8	1,112		579	13.80	9.2	2.8	2.96	1.98	33.5	2.96
48.20	48.10	28.6	1.16	-0.70	28.5	4.06	4	123	2.82	1.64	15.7	16.4	4.53	3	2.95	19.2	0.00	19.2	4	0.07	1	55.05	0.60	274.1	722.9	999		359	8.55	5.5	1.6	1.83	1.17	31.0	1.83
48.30	48.23	35.8	1.11	-0.70	35.7	3.43	5	124	2.83	1.64	20.1	21.5	3.38	4	2.79	24.3	0.00	24.3	4	0.06	1	45.16	0.58	274.0	738.1	1,049		460	10.96	7.2	2.1	2.35	1.53	32.3	2.35
48.40	48.38	37.9	1.00	-0.70	37.8	3.16	5	124	2.84	1.64	21.3	23.0	2.87	4	2.72	25.8	0.00	25.8	4	0.05	1	41.57	0.58	274.0	730.9	1,029		490	11.66	7.7	2.5	2.50	1.64	32.6	2.50
48.60	48.51	36.5	0.90	-0.70	36.4	3.23	5	124	2.85	1.65	20.4	22.0	2.68	4	2.72	24.7	0.00	24.7	4	0.06	1	41.42	0.58	274.0	714.6	982		470	11.19	7.3	2.6	2.40	1.57	32.4	2.40
48.70	48.64	35.2	0.79	-0.69	35.0	3.22	5	123	2.86	1.65	19.5	21.1	2.45	4	2.71	23.6	0.00	23.6	4	0.06	1	41.01	0.58	274.0	696.4	929		450	10.73	7.0	2.9	2.30	1.51	32.2	2.30
48.80	48.78	36.7	0.80	-0.70	36.6	3.49	5	124	2.87	1.66	20.4	22.1	2.38	4	2.69	24.7	0.00	24.7	4	0.06	1	39.76	0.58	274.0	702.2	953		472	11.23	7.4	3.0	2.41	1.58	32.4	2.41
49.00	48.91	21.5	0.79	-0.70	21.4	3.68	4	119	2.87	1.66	11.2	11.6	4.27	3	3.05	14.3	0.00	14.3	3	0.10	1	61.80	0.62	274.1	654.3	794		214	6.17	3.9	1.7	1.32	0.83	29.3	1.32
49.10	49.04	19.8	0.77	-0.70	19.7	3.87	4	119	2.88	1.66	10.1	10.4	4.56	3	3.10	13.2	0.00	13.2	3	0.11	1	65.40	0.63	274.1	644.4	767		175	5.62	3.5	1.6	1.20	0.74	28.8	1.20
49.20	49.16	18.5	0.71	-0.69	18.4	3.85	4	118	2.89	1.67	9.3	9.5	4.59	3	3.13	12.2	0.00	12.2	3	0.12	1	67.75	0.64	274.2	630.4	730		147	5.16	3.2	1.5	1.11	0.68	28.4	1.11
49.40	49.30	17.7	0.62	-0.70	17.6	3.51	4	117	2.90	1.67	8.8	9.0	4.24	3	3.13	11.7	0.00	11.7	3	0.13	1	67.61	0.64	274.2	613.4	684		132	4.90	3.0	1.7	1.05	0.64	28.1	1.05
49.50	49.43	16.8	0.57	-0.70	16.7	3.36	4	116	2.90	1.67	8.3	8.4	4.10	3	3.14	11.1	0.00	11.1	3	0.14	1	68.65	0.65	274.2	600.1	650		117	4.60	2.8	1.7	0.99	0.60	27.8	0.99
49.60	49.54	16.5	0.56	-0.70	16.4	3.43	4	116	2.91	1.68	8.0	8.2	4.20	3	3.16	10.9	0.00	10.9	3	0.14	1	69.88	0.65	274.2	598.1	645		110	4.48	2.7	1.7	0.96	0.58	27.6	0.96
49.80	49.69	16.3	0.54	-0.69	16.2	3.27	4	116	2.92	1.68	7.9	8.1	4.02	3	3.15	10.8	0.00	10.8	3	0.14	1	69.39	0.65	274.2	592.7	632		108	4.44	2.7	1.8	0.95	0.58	27.6	0.95
49.90	49.83	26.1	0.54	-0.69	26.0	3.19	5	120	2.93	1.68	13.7	14.6	2.34	4	2.82	17.1	0.00	17.1	4	0.08	1	47.36	0.61	274.1	633.2	749		323	7.68	4.9	3.0	1.65	1.05	30.4	1.65
50.00	49.92	28.1	0.51	-0.69	28.0	3.03	5	121	2.93	1.69	14.8	16.0	2.02	4	2.76	18.4	0.00	18.4	4	0.08	1	43.69	0.60	274.1	633.4	752		350	8.34	5.3	3.5	1.79	1.14	30.8	1.79

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Z_b (ft)	Z_m (ft)	$C_c/(1+e_0)$(%)	$C_r/(1+e_0)$(%)	μ_{FC}	μ_{LL}	μ_{PI}	K_0	D_R (%)	$N_{60L\&B}$	$(N_{60})_{Ic}$	$(N_1)_{60I\&B}$	C_N	$(N_1)_{60csL\&R}$	$(N_1)_{60csIc}$	$(N_1)_{60csI\&B}$	$(N_1)_{60qc1ncs}$	r_d	MSF	K_σ	K_α	$CSR_{7.5}$	$CRR_{7.5}$	FS	τ_{av} (tsf)	p'(tsf)	γ_{max} (%)	G/G_0	ε_v (%)	ΔS_i	ΣS_i (in)
0.30	0.14	14.00	4.67	55.2	19.2	6.4	0.95		2.4	1.6	0.1	1.70	9.9	8.3	5.6	6.4	1.00	1.03	1.10	1.00	0.37	1.30		0.00	0.01		0.00		0.00	0.42
0.40	0.34	0.61	0.20	0.0	7.7	2.3	1.12	79.5	37.2	15.6	19.6	1.70	67.7	29.5	22.2	34.8	1.00	1.39	1.10	1.00	0.28	0.65		0.01	0.02	0.001	0.93	0.00	0.00	0.42
0.50	0.47	0.23	0.08	0.0	6.4	1.9	1.50	92.1	38.0	27.5	46.8	1.70	64.7	46.8	46.8	46.8	1.00	1.45	1.10	1.00	0.26	1.30		0.01	0.04	0.001	0.94	0.00	0.00	0.42
0.70	0.60	0.55	0.18	0.8	7.9	2.4	1.21	83.3	36.1	18.5	25.3	1.70	64.9	34.1	27.4	39.5	1.00	1.45	1.10	1.00	0.26	1.30		0.02	0.04	0.002	0.92	0.00	0.00	0.42
0.80	0.74	0.25	0.08	19.2	10.6	3.3	0.84	70.1	25.9	10.0	6.7	1.70	55.7	24.4	12.1	46.4	1.00	1.19	1.10	1.00	0.32	0.21		0.02	0.04		0.00		0.00	0.42
0.90	0.87	0.35	0.12	27.6	12.2	3.9	10.96		27.4	7.6	3.0	1.70	61.0	20.4	8.5	12.8	1.00	1.04	1.10	1.00	0.37	1.30		0.02	0.42		0.00		0.00	0.42
1.10	1.00	0.38	0.13	30.6	12.8	4.1	10.06		25.2	7.0	2.3	1.70	56.4	19.2	7.9	11.9	1.00	1.04	1.10	1.00	0.37	1.30		0.03	0.45		0.00		0.00	0.42
1.20	1.14	0.41	0.14	33.1	13.4	4.3	9.46		15.8	6.5	1.9	1.70	37.3	18.3	7.5	11.1	1.00	1.04	1.10	1.00	0.37	1.30		0.03	0.48		0.00		0.00	0.42
1.30	1.27	0.26	0.09	25.2	11.7	3.7	0.82	67.7	18.4	8.8	6.0	1.70	38.8	20.7	11.0	30.6	1.00	1.16	1.10	1.00	0.33	0.18		0.03	0.07		0.00		0.00	0.42
1.40	1.39	0.24	0.08	24.4	11.6	3.6	0.85	68.8	20.0	9.3	7.1	1.70	40.8	21.0	11.8	29.1	1.00	1.17	1.10	1.00	0.33	0.19		0.04	0.08		0.00		0.00	0.42
1.60	1.51	0.45	0.15	37.8	14.4	4.7	8.63		14.4	6.0	1.4	1.70	34.5	17.2	7.0	10.2	1.00	1.04	1.10	1.00	0.37	1.30		0.04	0.58		0.00		0.00	0.42
1.70	1.64	0.49	0.16	40.5	15.1	4.9	7.89		13.2	5.6	1.0	1.70	31.9	16.3	6.6	9.4	1.00	1.04	1.10	1.00	0.37	1.30		0.04	0.57		0.00		0.00	0.42
1.80	1.78	0.48	0.16	41.1	15.2	4.9	0.60	58.4	10.0	5.4	1.0	1.70	25.4	16.1	6.6	30.4	1.00	1.09	1.10	1.00	0.35	0.13		0.05	0.08		0.00		0.00	0.42
2.00	1.91	0.51	0.17	42.9	15.7	5.1	0.59	57.4	9.5	5.0	0.8	1.70	24.0	14.9	6.3	25.5	1.00	1.08	1.10	1.00	0.35	0.13		0.05	0.09		0.00		0.00	0.42
2.10	2.04	0.60	0.20	47.1	16.8	5.5	0.54	54.8	8.1	4.2	0.4	1.70	20.9	13.3	5.9	21.1	1.00	1.07	1.10	1.00	0.36	0.12		0.05	0.09	0.123	0.12	0.18	0.00	0.42
2.30	2.18	0.69	0.23	50.5	17.8	5.9	0.50	52.9	7.1	3.7	0.4	1.70	18.8	12.0	5.8	17.3	0.99	1.07	1.10	1.00	0.36	0.12		0.06	0.09	0.453	0.04	0.79	0.02	0.40
2.40	2.32	0.75	0.25	53.0	18.5	6.1	0.47	51.9	6.5	3.4	0.4	1.70	17.7	11.4	5.8	16.1	0.99	1.06	1.10	1.00	0.36	0.11		0.06	0.09		0.00		0.00	0.40
2.50	2.44	0.80	0.08	54.8	19.1	6.4	0.46	51.3	6.1	3.2	0.3	1.70	17.0	11.2	5.8	15.8	0.99	1.06	1.10	1.00	0.36	0.11		0.06	0.09		0.00		0.00	0.40
2.60	2.57	1.77	0.59	67.9	23.7	8.1	2.68		4.6	2.1	0.2	1.70	14.3	9.4	5.8	3.7	0.99	1.03	1.10	1.00	0.37	1.30		0.06	0.33		0.00		0.00	0.40
2.80	2.72	1.90	0.63	69.3	24.2	8.3	2.59		4.4	1.8	0.2	1.70	14.0	8.7	5.7	7.0	0.99	1.03	1.10	1.00	0.37	1.30		0.07	0.34		0.00		0.00	0.40
2.90	2.84	2.05	0.68	70.6	24.8	8.5	2.49		4.3	1.8	0.2	1.70	13.7	8.6	5.7	6.8	0.99	1.03	1.10	1.00	0.37	1.30		0.07	0.34		0.00		0.00	0.40
3.00	2.96	2.14	0.71	71.6	25.1	8.7	2.44		4.2	1.7	0.2	1.70	13.5	8.5	5.7	6.8	0.99	1.03	1.10	1.00	0.37	1.30		0.07	0.34		0.00		0.00	0.40
3.20	3.09	2.29	0.76	72.8	25.6	8.9	2.36		4.0	1.7	0.2	1.70	13.3	8.5	5.7	6.7	0.99	1.03	1.10	1.00	0.37	1.30		0.08	0.35		0.00		0.00	0.40
3.30	3.22	2.29	0.76	73.3	25.9	8.9	2.36		6.1	1.7	0.2	1.70	17.4	8.5	5.7	6.7	0.99	1.03	1.10	1.00	0.37	1.30		0.08	0.36		0.00		0.00	0.40
3.40	3.36	2.13	0.71	73.0	25.7	8.9	2.45		6.3	1.8	0.2	1.70	17.8	8.6	5.7	6.9	0.99	1.03	1.09	1.00	0.37	1.30		0.08	0.39		0.00		0.00	0.40
3.60	3.49	1.79	0.60	71.6	25.1	8.7	2.67		4.6	1.9	0.2	1.70	14.3	8.8	5.7	7.3	0.99	1.03	1.09	1.00	0.37	1.30		0.08	0.43		0.00		0.00	0.40
3.70	3.62	1.42	0.47	69.5	24.3	8.3	2.99		5.1	2.4	0.2	1.70	15.4	9.8	5.8	4.0	0.99	1.03	1.09	1.00	0.37	1.30		0.09	0.49		0.00		0.00	0.40
3.80	3.76	1.10	0.37	66.5	23.1	7.9	3.51		4.5	2.6	0.2	1.70	14.2	10.3	5.8	4.4	0.99	1.03	1.09	1.00	0.37	1.30		0.09	0.58		0.00		0.00	0.40
4.00	3.90	0.98	0.33	64.5	22.4	7.6	3.93		5.0	2.8	0.3	1.70	15.2	10.7	5.8	4.7	0.99	1.03	1.09	1.00	0.37	1.30		0.09	0.66		0.00		0.00	0.40
4.10	4.02	0.86	0.09	62.0	21.5	7.3	0.44	50.7	5.7	3.0	0.3	1.70	16.4	11.0	5.8	16.1	0.99	1.06	1.10	1.00	0.36	0.11		0.10	0.14		0.00		0.00	0.40
4.20	4.14	0.75	0.25	59.3	20.5	6.9	0.47	51.8	5.2	3.4	0.4	1.70	15.1	11.4	5.7	15.7	0.99	1.06	1.10	1.00	0.36	0.11		0.10	0.15		0.00		0.00	0.40
4.30	4.28	0.55	0.18	52.6	18.4	6.1	0.57	55.5	7.2	4.5	0.6	1.70	18.3	13.1	5.8	18.0	0.99	1.08	1.10	1.00	0.35	0.12		0.10	0.18	0.961	0.03	1.61	0.02	0.38
4.50	4.40	0.37	0.12	44.2	16.0	5.2	0.70	61.1	10.7	6.3	2.8	1.70	24.1	15.9	7.7	21.5	0.99	1.10	1.10	1.00	0.34	0.14		0.11	0.20	0.139	0.16	0.19	0.00	0.38
4.60	4.53	0.30	0.10	39.9	14.9	4.8	0.77	65.0	16.5	7.7	4.7	1.70	34.7	18.4	9.5	25.5	0.99	1.13	1.10	1.00	0.33	0.16		0.11	0.22	0.059	0.31	0.07	0.00	0.37
4.70	4.67	0.52	0.17	52.7	18.4	6.1	7.31		12.6	5.3	0.8	1.70	30.6	15.9	6.4	9.1	0.99	1.04	1.09	1.00	0.37	1.30		0.11	1.40		0.00		0.00	0.37
4.90	4.81	0.57	0.19	55.3	19.2	6.4	6.42		17.1	5.0	0.5	1.70	39.9	15.2	6.1	8.5	0.98	1.04	1.09	1.00	0.37	1.30		0.12	1.28		0.00		0.00	0.37
5.00	4.94	0.60	0.20	56.6	19.7	6.6	5.95		16.3	4.9	0.4	1.70	38.3	14.9	6.0	8.3	0.98	1.03	1.08	1.00	0.37	1.30		0.12	1.23		0.00		0.00	0.37
5.10	5.07	0.60	0.20	56.9	19.7	6.6	5.82		16.4	4.9	0.4	1.70	38.5	15.0	6.0	8.3	0.98	1.03	1.08	1.00	0.37	1.30		0.12	1.24		0.00		0.00	0.37
5.30	5.21	0.58	0.19	56.5	19.6	6.6	5.84		16.9	5.1	0.5	1.70	39.5	15.4	6.1	8.6	0.98	1.04	1.08	1.00	0.37	1.30		0.12	1.27		0.00		0.00	0.37
5.40	5.35	0.56	0.19	56.1	19.5	6.5	5.88		17.5	5.3	0.5	1.70	40.7	15.7	6.1	8.9	0.98	1.04	1.08	1.00	0.37	1.30		0.13	1.32		0.00		0.00	0.37
5.50	5.47	0.54	0.18	55.6	19.3	6.5	5.96		18.2	5.4	0.7	1.70	42.0	16.1	6.3	9.2	0.98	1.04	1.08	1.00	0.37	1.30		0.13	1.37		0.00		0.00	0.37
5.60	5.58	0.53	0.18	55.5	19.3	6.4	5.92		18.4	5.5	0.7	1.70	42.6	16.2	6.3	9.3	0.98	1.04	1.08	1.00	0.37	1.30		0.13	1.39		0.00		0.00	0.37
5.80	5.71	0.53	0.18	55.9	19.4	6.5	5.77		18.4	5.5	0.7	1.70	42.5	16.1	6.3	9.3	0.98	1.04	1.08	1.00	0.37	1.30		0.14	1.39		0.00		0.00	0.37
5.90	5.85	0.54	0.18	56.2	19.5	6.5	5.61		18.3	5.0	2.6	1.70	42.4	15.2	8.2	15.2	0.98	1.04	1.07	1.00	0.37	1.30		0.14	1.39		0.00		0.00	0.37
6.10	5.99	0.52	0.17	55.9	19.5	6.5	5.62		18.8	5.6	0.8	1.70	43.5	16.4	6.4	9.5	0.98	1.04	1.07	1.00	0.37	1.30		0.14	1.42		0.00		0.00	0.37
6.20	6.11	0.51	0.17	55.8	19.4	6.5	5.61		19.2	5.2	2.8	1.70	44.2	15.7	8.3	15.3	0.98	1.04	1.07	1.00	0.37	1.30		0.15	1.45		0.00		0.00	0.37
6.30	6.25	0.50	0.17	55.5	19.3	6.4	5.63		19.7	5.4	2.8	1.70	45.2	16.0	8.4	15.4	0.98	1.04	1.07	1.00	0.37	1.30		0.15	1.49		0.00		0.00	0.37
6.50	6.39	0.48	0.16	55.1	19.2	6.4	5.66		20.3	5.6	3.0	1.68	46.1	16.3	8.5	15.5	0.98	1.04	1.07	1.00	0.37	1.30		0.15	1.53		0.00		0.00	0.37
6.60	6.53	0.48	0.16	55.4	19.3	6.4	5.53		20.3	5.6	2.9	1.66	45.6	16.2	8.4	15.2	0.98	1.04	1.07	1.00	0.37	1.30		0.16	1.54		0.00		0.00	0.37
6.70	6.64	0.49	0.16	55.7	19.4	6.5	5.41		20.2	5.6	2.8	1.65	45.1	16.1	8.3	14.9	0.98	1.04	1.07	1.00	0.37	1.30		0.16	1.53		0.00		0.00	0.37
6.80	6.76	0.50	0.17	56.5	19.6	6.6	5.17		19.7	5.5	2.5	1.63	43.7	15.8	8.1	14.4	0.98	1.04	1.07	1.00	0.37	1.30		0.16	1.50		0.00		0.00	0.37
7.00	6.89	0.51	0.17	57.1	19.8	6.6	5.00		19.4	5.4	2.4	1.62	42.8	15.5	7.9	13.9	0.98	1.04	1.06	1.00	0.37	1.30		0.17	1.48		0.00		0.00	0.37
7.10	7.03	0.52	0.17	58.1	20.1	6.8	4.75		18.9	5.3	2.1	1.60	41.3	15.2	7.7	13.4	0.98	1.04	1.06	1.00	0.37	1.30		0.17	1.44		0.00		0.00	0.37
7.20	7.16	0.54	0.18	58.9	20.4	6.9	4.54		18.4	5.2	1.9	1.59	40.1	15.0	7.5	12.9	0.97	1.04	1.06	1.00	0.37	1.30		0.17	1.41		0.00		0.00	0.37
7.40	7.29	0.55	0.18	59.8	20.7	7.0	4.32		17.9	5.1	1.7	1.57	38.7	14.7	7.3	12.4	0.97	1.04	1.06	1.00	0.37	1.30		0.18	1.38		0.00		0.00	0.37
7.50	7.42	0.56	0.19	60.4	20.9	7.0	4.19		17.7	5.1	1.6	1.56	38.0	14.5	7.2	12.1	0.97	1.04	1.06	1.00	0.37	1.30		0.18	1.36		0.00		0.00	0.37
7.60	7.56	0.58	0.19	61.4	21.3	7.2	3.97		17.1	5.0	1.4	1.54	36.7	14.2	6.9	11.6	0.97	1.04	1.06	1.00	0.38	1.30		0.18	1.33		0.00		0.00	0.37
7.80	7.69	0.60	0.20	62.5	21.7	7.3	3.75		16.5	4.8	1.1	1.53	35.2	13.9	6.7	11.0	0.97	1.03	1.05	1.00	0.38	1.30		0.19	1.28		0.00		0.00	0.37
7.90	7.83	0.62	0.21	63.3	22.0	7.4	3.60		16.1	4.8	1.0	1.52	34.3	13.7	6.6	10.6	0.97	1.03	1.05	1.00	0.38	1.30		0.19	1.26		0.00		0.00	0.37
8.00	7.96	0.62	0.21	63.6	22.1	7.5	3.52		16.0	4.8	0.9	1.50	33.9	13.6	6.5	10.5	0.97	1.03	1.05	1.00	0.38	1.30		0.19	1.26		0.00		0.00	0.37
8.20	8.09	0.61	0.20	63.6	22.1	7.5	3.50		16.2	4.8	0.9	1.49	34.0	13.6	6.5	10.4	0.97	1.03	1.05	1.00	0.38	1.30		0.19	1.27		0.00		0.00	0.37
8.30	8.21	0.62	0.21	64.1	22.2	7.5	3.40		16.0	4.8	0.8	1.48	33.4	13.5	6.4	10.1	0.97	1.03	1.05	1.00	0.38	1.30		0.20	1.26		0.00		0.00	0.37
8.40	8.34	0.65	0.22	65.4	22.7	7.7	3.20		15.3	4.6	0.6	1.47	32.0	13.2	6.2	9.7	0.97	1.03	1.05	1.00	0.38	1.30		0.20	1.21		0.00		0.00	0.37
8.50	8.47	0.69	0.23	66.9	23.3	7.9	2.97		14.5	4.5	0.4	1.46	30.3	12.8	6.1	9.2	0.97	1.03	1.05	1.00	0.38	1.30		0.20	1.16		0.00		0.00	0.37
8.70	8.61	0.72	0.24	68.0	23.7	8.1	2.81		14.0	4.4	0.4	1.44	29.2	12.6	6.0	8.8	0.97	1.03	1.04	1.00	0.38	1.30		0.21	1.12		0.00		0.00	0.37
8.80	8.74	0.74	0.25	69.0	24.1	8.3	2.67		13.5	4.3	0.4	1.43	28.2	12.3	6.0	8.4	0.97	1.03	1.04	1.00	0.38	1.30		0.21	1.09		0.00		0.00	0.37
8.90	8.87	0.76	0.25	69.9	24.5	8.4	2.56		13.2	4.2	0.4	1.42	27.4	12.1	6.0	8.1	0.97	1.03	1.04	1.00	0.38	1.30		0.21	1.07		0.00		0.00	0.37
9.10	9.01	0.79	0.26	70.9	24.9	8.6	2.44		12.7	4.1	0.3	1.41	26.6	11.9	6.0	7.8	0.97	1.03	1.04	1.00	0.38	1.30		0.22	1.04		0.00		0.00	0.37
9.20	9.13	0.83	0.28	72.2	25.4	8.8	2.29		12.1	4.0	0.3	1.40	25.4	11.6	5.9	7.4	0.97	1.03	1.04	1.00	0.38	1.30		0.22	1.00		0.00		0.00	0.37

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Z_b (ft)	Z_m (ft)	$C_c/(1+e_0)$(%)	$C_r/(1+e_0)$(%)	μ_{FC}	μ_{LL}	μ_{PI}	K_0	D_R (%)	$N_{60L\&B}$	$(N_{60})_{Ic}$	$(N_1)_{60I\&B}$	C_N	$(N_1)_{60csL\&R}$	$(N_1)_{60csIc}$	$(N_1)_{60csI\&B}$	$(N_1)_{60qc1ncs}$	r_d	MSF	K_σ	K_α	$CSR_{7.5}$	$CRR_{7.5}$	FS	τ_{av} (tsf)	p'(tsf)	γ_{max} (%)	G/G_0	ε_v (%)	ΔS_i	ΣS_i (in)
9.30	9.26	0.87	0.29	73.6	26.0	9.0	2.14		11.6	3.8	0.3	1.39	24.3	11.4	5.9	7.1	0.97	1.03	1.04	1.00	0.38	1.30		0.22	0.96		0.00		0.00	0.37
9.50	9.41	0.90	0.30	74.5	26.4	9.1	2.05		11.3	3.7	0.3	1.38	23.7	11.2	5.9	6.8	0.96	1.03	1.04	1.00	0.38	1.30		0.23	0.94		0.00		0.00	0.37
9.60	9.53	0.91	0.30	75.1	26.6	9.2	1.99		11.1	3.7	0.3	1.37	23.2	11.1	5.9	6.6	0.96	1.03	1.04	1.00	0.38	1.30		0.23	0.93		0.00		0.00	0.37
9.70	9.66	0.95	0.32	76.2	27.1	9.4	1.88		10.7	3.6	0.3	1.36	22.4	10.9	5.9	6.4	0.96	1.03	1.03	1.00	0.38	1.30		0.23	0.91		0.00		0.00	0.37
9.90	9.80	0.98	0.33	77.1	27.5	9.6	1.80		10.4	3.6	0.3	1.35	21.9	10.8	5.9	6.2	0.96	1.03	1.03	1.00	0.38	1.30		0.23	0.89		0.00		0.00	0.37
10.00	9.94	0.98	0.33	77.2	27.6	9.6	1.79		10.4	3.6	0.3	1.34	21.8	10.8	5.9	6.2	0.96	1.03	1.03	1.00	0.38	1.30		0.24	0.89		0.00		0.00	0.37
10.10	10.06	0.96	0.32	76.9	27.4	9.6	1.80		10.6	3.7	0.3	1.34	22.0	10.9	5.9	6.2	0.96	1.03	1.03	1.00	0.38	1.30		0.24	0.91				0.00	0.37
10.30	10.19	0.94	0.31	76.4	27.2	9.5	1.84		10.9	3.7	0.3	1.33	22.4	11.0	5.9	6.3	0.96	1.03	1.03	1.00	0.38	1.30		0.24	0.93				0.00	0.37
10.40	10.32	0.89	0.30	75.1	26.6	9.2	1.94		11.5	3.9	0.3	1.33	23.4	11.2	5.9	6.5	0.96	1.03	1.03	1.00	0.39	1.30		0.25	0.97				0.00	0.37
10.50	10.44	0.86	0.29	73.9	26.1	9.0	2.03		12.1	4.0	0.3	1.33	24.3	11.4	5.9	6.7	0.96	1.03	1.03	1.00	0.39	1.30		0.25	1.02				0.00	0.37
10.60	10.58	0.88	0.29	74.4	26.4	9.1	1.99		12.0	4.0	0.3	1.32	24.0	11.3	5.9	6.6	0.96	1.03	1.03	1.00	0.39	1.30		0.25	1.00				0.00	0.37
10.80	10.70	0.88	0.29	74.5	26.4	9.1	1.97		12.0	4.0	0.3	1.32	23.9	11.3	5.9	6.6	0.96	1.03	1.03	1.00	0.39	1.30		0.25	1.01				0.00	0.37
10.90	10.84	0.88	0.29	74.3	26.3	9.1	1.98		12.1	3.9	0.3	1.31	24.1	11.1	5.9	6.4	0.96	1.03	1.03	1.00	0.39	1.13	2.00	0.26	1.02				0.00	0.37
11.00	10.97	0.91	0.30	75.3	26.7	9.3	1.90		11.7	3.9	0.3	1.31	23.4	11.1	5.9	6.3	0.96	1.03	1.03	1.00	0.40	1.30		0.26	0.99				0.00	0.37
11.20	11.09	0.93	0.31	75.8	26.9	9.4	1.86		11.5	3.8	0.3	1.31	23.0	11.0	5.9	6.2	0.96	1.03	1.03	1.00	0.40	1.30		0.26	0.97				0.00	0.37
11.30	11.23	0.96	0.32	76.4	27.2	9.5	1.81		11.3	3.8	0.3	1.30	22.6	10.9	5.9	6.0	0.96	1.03	1.03	1.00	0.40	1.30		0.27	0.96				0.00	0.37
11.50	11.39	0.91	0.30	75.0	26.6	9.2	1.91		12.0	3.9	0.3	1.30	23.6	11.1	5.9	6.2	0.96	1.03	1.03	1.00	0.40	1.09	2.00	0.27	1.01				0.00	0.37
11.60	11.52	0.93	0.31	75.6	26.9	9.3	1.86		11.7	3.9	0.3	1.29	23.2	11.0	5.9	6.1	0.95	1.03	1.03	1.00	0.41	1.30		0.27	0.99				0.00	0.37
11.70	11.64	0.97	0.32	76.6	27.3	9.5	1.78		11.3	3.8	0.3	1.29	22.5	10.8	5.9	5.9	0.95	1.03	1.03	1.00	0.41	1.30		0.28	0.96				0.00	0.37
11.80	11.77	1.02	0.34	77.8	27.8	9.7	1.68		10.8	3.7	0.3	1.29	21.7	10.7	5.9	5.7	0.95	1.03	1.03	1.00	0.41	1.30		0.28	0.93				0.00	0.37
12.00	11.90	1.08	0.36	79.1	28.4	9.9	1.59		10.3	3.5	0.2	1.28	20.9	10.5	5.8	5.5	0.95	1.03	1.03	1.00	0.41	1.30		0.28	0.89				0.00	0.37
12.10	12.02	1.11	0.37	79.8	28.8	10.1	1.54		10.0	3.5	0.2	1.28	20.4	10.3	5.8	5.3	0.95	1.03	1.03	1.00	0.41	1.30		0.28	0.88				0.00	0.37
12.20	12.15	1.12	0.37	79.9	28.8	10.1	1.53		10.0	3.5	0.2	1.28	20.4	10.3	5.8	5.3	0.95	1.03	1.03	1.00	0.42	1.30		0.29	0.88				0.00	0.37
12.40	12.29	1.13	0.38	80.0	28.9	10.1	1.52		10.0	3.5	0.2	1.27	20.3	10.3	5.8	5.2	0.95	1.03	1.03	1.00	0.42	1.30		0.29	0.88				0.00	0.37
12.50	12.42	1.15	0.38	80.5	29.1	10.2	1.49		9.9	3.4	0.2	1.27	20.1	10.2	5.8	5.1	0.95	1.03	1.03	1.00	0.42	1.30		0.29	0.87				0.00	0.37
12.60	12.56	1.16	0.39	80.7	29.2	10.2	1.47		9.8	3.4	0.2	1.27	20.0	10.2	5.8	5.1	0.95	1.03	1.03	1.00	0.42	1.30		0.30	0.87				0.00	0.37
12.80	12.69	1.16	0.39	80.5	29.1	10.2	1.48		9.9	3.4	0.2	1.26	20.1	10.2	5.8	5.1	0.95	1.03	1.03	1.00	0.42	1.30		0.30	0.87				0.00	0.37
12.90	12.81	1.16	0.39	80.6	29.2	10.2	1.47		9.9	3.5	0.2	1.26	20.0	10.2	5.8	5.1	0.95	1.03	1.03	1.00	0.43	1.30		0.30	0.87				0.00	0.37
13.00	12.93	1.17	0.39	80.7	29.2	10.2	1.46		9.9	3.5	0.2	1.26	20.0	10.2	5.8	5.1	0.95	1.03	1.03	1.00	0.43	1.30		0.30	0.87				0.00	0.37
13.10	13.06	1.24	0.41	81.5	29.6	10.4	1.41		9.7	3.4	0.2	1.25	19.5	10.1	5.8	4.9	0.95	1.03	1.03	1.00	0.43	1.30		0.31	0.86				0.00	0.37
13.30	13.20	1.36	0.45	82.6	30.1	10.6	1.34		9.3	3.3	0.2	1.25	18.9	9.9	5.8	4.7	0.95	1.03	1.02	1.00	0.43	1.30		0.31	0.83				0.00	0.37
13.40	13.33	1.38	0.46	82.7	30.2	10.6	1.33		9.3	3.3	0.2	1.25	18.9	9.9	5.8	4.7	0.95	1.03	1.02	1.00	0.43	1.30		0.31	0.83				0.00	0.37
13.50	13.46	1.38	0.46	82.7	30.2	10.6	1.33		9.3	3.3	0.2	1.24	18.9	9.9	5.8	4.7	0.94	1.03	1.02	1.00	0.44	1.30		0.31	0.83				0.00	0.37
13.70	13.60	1.35	0.45	82.4	30.0	10.6	1.35		9.5	3.3	0.2	1.24	19.1	10.0	5.8	4.7	0.94	1.03	1.02	1.00	0.44	1.30		0.32	0.84				0.00	0.37
13.80	13.73	1.31	0.44	82.0	29.8	10.5	1.37		9.7	3.4	0.2	1.24	19.3	10.0	5.8	4.8	0.94	1.03	1.02	1.00	0.44	1.30		0.32	0.86				0.00	0.37
13.90	13.86	1.24	0.41	81.2	29.5	10.3	1.41		10.0	3.5	0.2	1.24	19.8	10.2	5.8	4.9	0.94	1.03	1.02	1.00	0.44	1.30		0.32	0.88				0.00	0.37
14.10	13.99	1.18	0.39	80.7	29.2	10.2	1.44		10.2	3.6	0.2	1.23	20.2	10.3	5.8	5.0	0.94	1.03	1.02	1.00	0.44	1.30		0.33	0.90				0.00	0.37
14.20	14.13	1.35	0.45	82.3	30.0	10.5	1.34		9.7	3.5	0.2	1.23	19.2	10.1	5.8	4.8	0.94	1.03	1.02	1.00	0.44	1.30		0.33	0.86				0.00	0.37
14.30	14.26	1.07	0.36	78.1	28.0	9.8	1.60		11.4	3.8	0.2	1.23	21.8	10.6	5.9	5.4	0.94	1.03	1.02	1.00	0.45	1.30		0.33	0.99				0.00	0.37
14.50	14.40	0.98	0.33	75.8	27.0	9.4	1.76		12.6	4.1	0.3	1.22	23.4	11.0	5.9	5.7	0.94	1.03	1.02	1.00	0.45	1.01	2.00	0.33	1.07				0.00	0.37
14.60	14.54	0.92	0.31	74.3	26.3	9.1	1.87		13.4	4.3	0.3	1.22	24.6	11.3	5.9	6.0	0.94	1.03	1.02	1.00	0.45	1.07	2.00	0.34	1.13				0.00	0.37
14.70	14.65	0.90	0.30	73.9	26.1	9.0	1.90		13.7	4.4	0.3	1.22	24.9	11.5	5.9	6.2	0.94	1.03	1.02	1.00	0.45	1.09	2.00	0.34	1.15				0.00	0.37
14.80	14.76	0.91	0.30	74.1	26.2	9.1	1.89		13.6	4.5	0.3	1.21	24.8	11.5	5.9	6.2	0.94	1.03	1.02	1.00	0.45	1.30		0.34	1.14				0.00	0.37
15.00	14.90	0.89	0.30	73.6	26.0	9.0	1.92		13.9	4.6	0.3	1.21	25.2	11.7	5.9	6.3	0.94	1.03	1.02	1.00	0.45	1.30		0.35	1.17				0.00	0.37
15.10	15.04	0.90	0.30	73.8	26.1	9.0	1.90		13.8	4.6	0.3	1.21	25.1	11.6	5.9	6.3	0.94	1.03	1.02	1.00	0.45	1.30		0.35	1.16				0.00	0.37
15.20	15.17	0.99	0.33	76.2	27.1	9.4	1.71		12.6	4.3	0.3	1.20	23.3	11.3	5.9	5.9	0.94	1.03	1.02	1.00	0.46	1.30		0.35	1.08				0.00	0.37
15.40	15.31	1.06	0.35	77.9	27.9	9.7	1.59		11.9	4.2	0.3	1.20	22.1	11.0	5.8	5.6	0.93	1.03	1.02	1.00	0.46	1.30		0.35	1.02				0.00	0.37
15.50	15.43	1.15	0.38	79.8	28.8	10.1	1.47		11.0	4.0	0.2	1.20	20.9	10.7	5.8	5.3	0.93	1.03	1.02	1.00	0.46	1.30		0.36	0.96				0.00	0.37
15.60	15.57	1.25	0.42	81.1	29.4	10.3	1.38		10.5	3.8	0.2	1.20	20.1	10.5	5.8	5.0	0.93	1.03	1.02	1.00	0.46	1.30		0.36	0.93				0.00	0.37
15.80	15.70	1.38	0.46	82.2	29.9	10.5	1.32		10.1	3.7	0.2	1.19	19.5	10.3	5.8	4.8	0.93	1.03	1.02	1.00	0.46	1.30		0.36	0.90				0.00	0.37
15.90	15.82	1.50	0.50	83.1	30.4	10.7	1.27		9.8	3.5	0.2	1.19	19.0	10.1	5.8	4.6	0.93	1.03	1.02	1.00	0.46	1.30		0.36	0.88				0.00	0.37
16.00	15.95	1.59	0.53	83.8	30.8	10.8	1.23		9.6	3.5	0.2	1.19	18.6	9.9	5.8	4.4	0.93	1.03	1.02	1.00	0.46	1.30		0.37	0.86				0.00	0.37
16.20	16.08	1.75	0.58	84.9	31.3	11.1	1.17		9.2	3.4	0.2	1.18	18.1	9.8	5.8	4.3	0.93	1.03	1.02	1.00	0.47	1.30		0.37	0.84				0.00	0.37
16.30	16.22	1.94	0.65	86.2	32.0	11.3	1.10		8.8	3.3	0.2	1.18	17.5	9.7	5.8	4.2	0.93	1.03	1.02	1.00	0.47	1.30		0.37	0.81				0.00	0.37
16.40	16.36	2.15	0.72	87.4	32.6	11.6	1.05		8.4	3.2	0.2	1.18	16.9	9.6	5.7	4.0	0.93	1.03	1.02	1.00	0.47	1.30		0.38	0.78				0.00	0.37
16.60	16.49	2.31	0.77	88.3	33.1	11.8	1.01		8.2	3.2	0.2	1.18	16.6	9.5	5.7	3.9	0.93	1.03	1.02	1.00	0.47	1.30		0.38	0.77				0.00	0.37
16.70	16.62	2.72	0.91	90.2	34.2	12.2	0.93		7.6	3.0	0.2	1.17	15.8	9.2	5.7	3.6	0.93	1.03	1.02	1.00	0.47	1.30		0.38	0.73				0.00	0.37
16.80	16.75	3.64	1.21	93.8	36.2	13.0	0.80		6.7	2.8	0.1	1.17	14.4	8.9	5.7	3.3	0.93	1.03	1.02	1.00	0.47	1.30		0.38	0.67				0.00	0.37
16.90	16.88	3.48	1.16	93.1	35.9	12.9	0.82		6.9	2.8	0.1	1.17	14.7	8.9	5.7	3.3	0.93	1.03	1.02	1.00	0.47	1.30		0.39	0.68				0.00	0.37
17.10	17.00	2.98	0.99	91.1	34.7	12.4	0.89		7.4	2.9	0.2	1.17	15.4	9.0	5.7	3.4	0.93	1.03	1.02	1.00	0.48	1.30		0.39	0.72				0.00	0.37
17.20	17.14	3.01	1.00	91.2	34.7	12.4	0.88		7.4	2.8	0.1	1.16	15.4	9.0	5.7	3.4	0.93	1.03	1.02	1.00	0.48	1.30		0.39	0.72				0.00	0.37
17.30	17.27	2.90	0.97	90.7	34.4	12.3	0.90		7.6	2.8	0.2	1.16	15.6	9.0	5.7	3.4	0.92	1.03	1.02	1.00	0.48	1.30		0.39	0.73				0.00	0.37
17.50	17.40	3.71	1.24	93.7	36.2	13.0	0.79		6.8	2.7	0.1	1.16	14.5	8.7	5.7	3.1	0.92	1.03	1.02	1.00	0.48	1.30		0.40	0.68				0.00	0.37
17.60	17.53	4.18	1.39	95.1	37.0	13.3	0.75		6.5	2.6	0.1	1.16	14.1	8.6	5.7	2.9	0.92	1.03	1.02	1.00	0.48	1.30		0.40	0.66				0.00	0.37
17.70	17.67	4.37	1.46	95.6	37.3	13.5	0.73		6.4	2.5	0.1	1.16	13.9	8.5	5.7	2.8	0.92	1.03	1.02	1.00	0.48	1.30		0.40	0.65				0.00	0.37
17.90	17.81	4.43	1.48	95.7	37.4	13.5	0.73		6.4	2.5	0.1	1.15	13.9	8.5	5.7	2.8	0.92	1.03	1.02	1.00	0.48	1.30		0.40	0.65				0.00	0.37
18.00	17.93	4.47	1.49	95.8	37.4	13.5	0.72		6.4	2.5	0.1	1.15	13.9	8.4	5.7	2.8	0.92	1.03	1.02	1.00	0.48	1.30		0.41	0.65				0.00	0.37
18.10	18.05	4.44	1.48	95.6	37.3	13.5	0.73		6.5	2.5	0.1	1.15	13.9	8.4	5.7	2.8	0.92	1.03	1.02	1.00	0.48	1.30		0.41	0.66				0.00	0.37
18.20	18.18	4.56	1.52	95.9	37.5	13.6	0.72		6.4	2.5	0.1	1.15	13.9	8.4	5.7	2.7	0.92	1.03	1.02	1.00	0.49	1.30		0.41	0.65				0.00	0.37

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Z_b (ft)	Z_m (ft)	$C_c/(1+e_0)$(%)	$C_r/(1+e_0)$(%)	μ_{FC}	μ_{LL}	μ_{PI}	K_0	D_R (%)	$N_{60L\&B}$	$(N_{60})_{Ic}$	$(N_1)_{60I\&B}$	C_N	$(N_1)_{60csL\&R}$	$(N_1)_{60csIc}$	$(N_1)_{60csI\&B}$	$(N_1)_{60qc1ncs}$	r_d	MSF	K_σ	K_α	$CSR_{7.5}$	$CRR_{7.5}$	FS	τ_{av} (tsf)	p'(tsf)	γ_{max} (%)	G/G_0	ε_v (%)	ΔS_i	ΣS_i (in)
18.40	18.31	4.60	1.53	96.0	37.6	13.6	0.71		6.4	2.5	0.1	1.14	13.8	8.4	5.7	2.7	0.92	1.03	1.02	1.00	0.49	1.30		0.41	0.65				0.00	0.37
18.50	18.44	3.97	1.32	94.2	36.5	13.1	0.77		6.9	2.6	0.1	1.14	14.5	8.6	5.7	2.9	0.92	1.03	1.01	1.00	0.49	1.30		0.41	0.69				0.00	0.37
18.70	18.59	3.07	1.02	91.0	34.6	12.4	0.88		7.8	2.8	0.2	1.14	15.6	8.8	5.7	3.2	0.92	1.03	1.01	1.00	0.49	1.30		0.42	0.75				0.00	0.37
18.80	18.72	2.36	0.79	87.8	32.8	11.7	1.01		5.9	3.1	0.2	1.14	13.0	9.2	5.8	3.5	0.92	1.03	1.01	1.00	0.49	1.30		0.42	0.82				0.00	0.37
18.90	18.84	1.57	0.52	82.8	30.2	10.6	1.24		10.6	3.6	0.2	1.14	19.5	9.9	5.8	4.2	0.92	1.03	1.01	1.00	0.49	1.30		0.42	0.95				0.00	0.37
19.00	18.97	0.99	0.33	75.2	26.7	9.3	1.71		9.5	4.5	0.3	1.13	18.0	11.1	5.9	5.4	0.91	1.03	1.01	1.00	0.49	0.98	1.98	0.42	1.21				0.00	0.37
19.20	19.11	0.87	0.29	71.8	25.3	8.7	1.96		10.9	5.0	0.3	1.13	19.8	11.7	5.9	5.9	0.91	1.03	1.01	1.00	0.49	1.12	2.00	0.43	1.36				0.00	0.37
19.30	19.24	1.10	0.37	77.5	27.7	9.7	1.54		8.8	4.2	0.3	1.13	16.9	10.7	5.9	4.9	0.91	1.03	1.01	1.00	0.49	0.88	1.78	0.43	1.13				0.00	0.37
19.50	19.38	1.97	0.66	85.4	31.6	11.2	1.10		6.5	3.4	0.2	1.13	13.8	9.5	5.8	3.8	0.91	1.03	1.01	1.00	0.50	1.30		0.43	0.89				0.00	0.37
19.60	19.51	2.58	0.86	88.7	33.3	11.9	0.96		8.6	3.1	0.2	1.12	16.7	9.2	5.8	3.4	0.91	1.03	1.01	1.00	0.50	1.30		0.44	0.81				0.00	0.37
19.70	19.64	2.88	0.96	90.0	34.0	12.2	0.91		5.5	3.0	0.2	1.12	12.4	9.0	5.7	3.3	0.91	1.03	1.01	1.00	0.50	1.30		0.44	0.79				0.00	0.37
19.80	19.77	3.48	1.16	92.3	35.4	12.7	0.82		7.6	2.8	0.1	1.12	15.3	8.8	5.7	3.0	0.91	1.03	1.01	1.00	0.50	1.30		0.44	0.74				0.00	0.37
20.00	19.89	3.70	1.23	93.0	35.8	12.9	0.80		7.4	2.8	0.1	1.12	15.0	8.7	5.7	3.0	0.91	1.03	1.01	1.00	0.50	1.30		0.44	0.73				0.00	0.37
20.10	20.02	3.67	1.22	93.0	35.7	12.8	0.80		7.5	2.8	0.1	1.12	15.0	8.8	5.7	3.0	0.91	1.03	1.01	1.00	0.50	1.30		0.44	0.74				0.00	0.37
20.20	20.16	3.37	1.12	91.9	35.1	12.6	0.83		7.8	2.9	0.1	1.11	15.5	8.9	5.7	3.1	0.91	1.03	1.01	1.00	0.50	1.30		0.45	0.76				0.00	0.37
20.40	20.28	3.15	1.05	91.0	34.6	12.4	0.87		8.1	2.9	0.2	1.11	15.8	8.9	5.7	3.1	0.91	1.03	1.01	1.00	0.50	1.30		0.45	0.78				0.00	0.37
20.50	20.42	3.89	1.30	93.5	36.1	13.0	0.78		7.4	2.8	0.1	1.11	14.9	8.7	5.7	2.9	0.91	1.03	1.01	1.00	0.50	1.30		0.45	0.73				0.00	0.37
20.60	20.55	3.99	1.33	93.8	36.2	13.0	0.77		7.4	2.7	0.1	1.11	14.8	8.6	5.7	2.9	0.91	1.03	1.01	1.00	0.50	1.30		0.45	0.73				0.00	0.37
20.70	20.68	3.70	1.23	92.8	35.7	12.8	0.80		5.1	2.8	0.1	1.11	11.8	8.7	5.7	2.9	0.90	1.03	1.01	1.00	0.51	1.30		0.46	0.75				0.00	0.37
20.90	20.81	3.71	1.24	92.9	35.7	12.8	0.79		7.6	2.9	0.1	1.10	15.1	8.8	5.7	3.0	0.90	1.03	1.01	1.00	0.51	1.30		0.46	0.75				0.00	0.37
21.00	20.95	3.78	1.26	93.2	35.9	12.9	0.78		7.6	2.9	0.1	1.10	15.0	8.9	5.7	3.0	0.90	1.03	1.01	1.00	0.51	1.30		0.46	0.75				0.00	0.37
21.10	21.08	3.81	1.27	93.3	35.9	12.9	0.78		7.6	3.0	0.1	1.10	15.0	8.9	5.7	3.0	0.90	1.03	1.01	1.00	0.51	1.30		0.46	0.75				0.00	0.37
21.30	21.21	3.81	1.27	93.2	35.9	12.9	0.78		7.6	2.9	0.1	1.10	15.1	8.8	5.7	3.0	0.90	1.03	1.01	1.00	0.51	1.30		0.47	0.75				0.00	0.37
21.40	21.35	4.65	1.55	95.6	37.3	13.5	0.71		7.0	2.7	0.1	1.10	14.3	8.6	5.7	2.7	0.90	1.03	1.01	1.00	0.51	1.30		0.47	0.71				0.00	0.37
21.50	21.47	5.08	1.69	96.6	37.9	13.7	0.68		6.8	2.6	0.1	1.09	13.9	8.5	5.7	2.6	0.90	1.03	1.01	1.00	0.51	1.30		0.47	0.69				0.00	0.37
21.70	21.60	5.37	1.79	97.3	38.4	13.9	0.66		6.7	2.6	0.1	1.09	13.7	8.4	5.7	2.6	0.90	1.03	1.01	1.00	0.51	1.30		0.47	0.68				0.00	0.37
21.80	21.73	5.88	1.96	98.4	39.1	14.2	0.63		6.4	2.6	0.1	1.09	13.4	8.4	5.7	2.5	0.90	1.03	1.01	1.00	0.51	1.30		0.47	0.67				0.00	0.37
21.90	21.86	6.03	2.01	98.7	39.3	14.3	0.62		6.4	2.6	0.1	1.09	13.4	8.4	5.7	2.5	0.90	1.03	1.01	1.00	0.51	1.30		0.48	0.66				0.00	0.37
22.10	21.99	5.88	1.96	98.3	39.0	14.2	0.63		6.5	2.6	0.1	1.09	13.5	8.4	5.7	2.5	0.90	1.03	1.01	1.00	0.51	1.30		0.48	0.67				0.00	0.37
22.20	22.13	5.38	1.79	97.2	38.3	13.9	0.66		6.8	2.7	0.1	1.09	13.8	8.5	5.7	2.6	0.90	1.03	1.01	1.00	0.51	1.30		0.48	0.69				0.00	0.37
22.30	22.26	5.10	1.70	96.5	37.9	13.7	0.67		6.9	2.7	0.1	1.08	14.0	8.5	5.7	2.6	0.90	1.03	1.01	1.00	0.52	1.30		0.48	0.71				0.00	0.37
22.50	22.39	4.69	1.56	95.5	37.2	13.4	0.70		7.2	2.8	0.1	1.08	14.4	8.6	5.7	2.7	0.89	1.03	1.01	1.00	0.52	1.30		0.49	0.73				0.00	0.37
22.60	22.53	5.19	1.73	96.7	38.0	13.7	0.67		6.9	2.7	0.1	1.08	14.0	8.5	5.7	2.6	0.89	1.03	1.01	1.00	0.52	1.30		0.49	0.71				0.00	0.37
22.70	22.66	6.06	2.02	98.5	39.2	14.2	0.62		6.5	2.6	0.1	1.08	13.5	8.4	5.7	2.5	0.89	1.03	1.01	1.00	0.52	1.30		0.49	0.68				0.00	0.37
22.80	22.78	6.79	2.26	99.9	40.1	14.6	0.58		6.3	2.5	0.1	1.08	13.1	8.3	5.7	2.3	0.89	1.03	1.01	1.00	0.52	1.30		0.49	0.66				0.00	0.37
23.00	22.91	6.84	2.28	100.0	40.1	14.6	0.58		6.3	2.5	0.1	1.08	13.1	8.3	5.7	2.3	0.89	1.03	1.01	1.00	0.52	1.30		0.50	0.66				0.00	0.37
23.10	23.04	6.33	2.11	99.0	39.5	14.3	0.60		6.5	2.6	0.1	1.07	13.4	8.3	5.7	2.4	0.89	1.03	1.01	1.00	0.52	1.30		0.50	0.68				0.00	0.37
23.30	23.18	6.17	2.06	98.7	39.2	14.3	0.61		6.6	2.6	0.1	1.07	13.5	8.4	5.7	2.4	0.89	1.03	1.01	1.00	0.52	1.30		0.50	0.68				0.00	0.37
23.40	23.31	4.62	1.54	95.1	37.0	13.4	0.71		5.0	2.8	0.1	1.07	11.4	8.6	5.7	2.7	0.89	1.03	1.01	1.00	0.52	1.30		0.50	0.75				0.00	0.37
23.50	23.43	4.21	1.40	94.0	36.3	13.1	0.74		5.2	2.9	0.1	1.07	11.6	8.7	5.7	2.8	0.89	1.03	1.01	1.00	0.52	1.30		0.50	0.77				0.00	0.37
23.60	23.56	4.30	1.43	94.2	36.5	13.1	0.74		5.1	2.9	0.1	1.07	11.6	8.7	5.7	2.8	0.89	1.03	1.01	1.00	0.52	1.30		0.51	0.77				0.00	0.37
23.80	23.69	4.34	1.45	94.3	36.5	13.2	0.73		5.1	2.9	0.1	1.07	11.6	8.7	5.7	2.7	0.89	1.03	1.01	1.00	0.52	1.30		0.51	0.77				0.00	0.37
23.90	23.83	3.98	1.33	93.2	35.9	12.9	0.77		5.4	3.0	0.1	1.06	11.8	8.8	5.7	2.8	0.89	1.03	1.01	1.00	0.52	1.30		0.51	0.79				0.00	0.37
24.00	23.97	3.27	1.09	90.8	34.5	12.3	0.85		5.9	3.1	0.2	1.06	12.5	9.0	5.7	3.0	0.89	1.03	1.01	1.00	0.52	1.30		0.51	0.84				0.00	0.37
24.20	24.10	2.19	0.73	85.9	31.8	11.3	1.04		5.3	3.5	0.2	1.06	11.7	9.4	5.8	3.4	0.88	1.03	1.01	1.00	0.53	1.30		0.51	0.97				0.00	0.37
24.30	24.23	1.62	0.54	82.2	29.9	10.5	1.21		6.0	3.8	0.2	1.06	12.7	9.9	5.8	3.8	0.88	1.03	1.01	1.00	0.53	0.69	1.31	0.52	1.08				0.00	0.37
24.40	24.36	1.14	0.38	77.6	27.8	9.7	1.46		7.2	4.3	0.2	1.06	14.1	10.5	5.9	4.4	0.88	1.03	1.01	1.00	0.53	0.84	1.59	0.52	1.24				0.00	0.37
24.60	24.50	0.92	0.31	72.3	25.4	8.8	1.82		8.8	5.1	0.3	1.05	16.2	11.4	5.9	5.2	0.88	1.03	1.01	1.00	0.53	1.04	1.97	0.52	1.47				0.00	0.37
24.70	24.62	0.77	0.26	68.0	23.7	8.1	2.18		10.5	5.8	0.4	1.05	18.2	12.3	5.9	6.0	0.88	1.03	1.01	1.00	0.53	1.24	2.00	0.52	1.71				0.00	0.37
24.80	24.74	0.67	0.07	64.7	22.5	7.6	0.35	54.2	11.9	6.4	0.4	1.05	19.8	12.9	5.9	20.9	0.88	1.07	1.01	1.00	0.51	0.12	2.00	0.53	0.54				0.00	0.37
24.90	24.87	1.12	0.37	77.1	27.6	9.6	1.48		9.9	4.7	0.3	1.05	17.4	10.9	5.9	4.7	0.88	1.03	1.01	1.00	0.53	0.85	2.00	0.53	1.27				0.00	0.37
25.10	25.00	1.17	0.39	78.1	28.0	9.8	1.42		9.5	4.7	0.2	1.05	17.0	10.9	5.9	4.6	0.88	1.03	1.01	1.00	0.53	0.81	2.00	0.53	1.24				0.00	0.37
25.20	25.14	1.41	0.47	80.4	29.1	10.2	1.29		8.8	4.4	0.2	1.04	16.0	10.5	5.8	4.3	0.88	1.03	1.00	1.00	0.53	1.30		0.53	1.16				0.00	0.37
25.40	25.28	1.70	0.57	82.6	30.2	10.6	1.17		8.1	4.2	0.2	1.04	15.1	10.2	5.8	4.0	0.88	1.03	1.00	1.00	0.53	1.30		0.54	1.09				0.00	0.37
25.50	25.42	2.24	0.75	86.0	31.9	11.3	1.02		10.8	3.9	0.2	1.04	18.4	9.8	5.8	3.7	0.88	1.03	1.00	1.00	0.53	1.30		0.54	0.99				0.00	0.37
25.60	25.54	3.39	1.13	91.0	34.6	12.4	0.83		9.0	3.5	0.2	1.04	16.2	9.4	5.7	3.2	0.88	1.03	1.00	1.00	0.53	1.30		0.54	0.87				0.00	0.37
25.70	25.67	4.79	1.60	95.2	37.1	13.4	0.69		7.8	3.2	0.1	1.04	14.7	9.0	5.7	2.8	0.87	1.03	1.00	1.00	0.53	1.30		0.54	0.78				0.00	0.37
25.90	25.80	5.04	1.68	95.8	37.4	13.5	0.68		7.7	3.2	0.1	1.04	14.5	9.0	5.7	2.8	0.87	1.03	1.00	1.00	0.53	1.30		0.54	0.77				0.00	0.37
26.00	25.93	4.19	1.40	93.5	36.1	13.0	0.74		8.3	3.3	0.1	1.03	15.3	9.1	5.7	3.0	0.87	1.03	1.00	1.00	0.53	1.30		0.55	0.82				0.00	0.37
26.10	26.07	2.92	0.97	89.1	33.5	12.0	0.89		9.7	3.6	0.2	1.03	17.1	9.5	5.7	3.3	0.87	1.03	1.00	1.00	0.53	1.30		0.55	0.92				0.00	0.37
26.30	26.21	2.13	0.71	85.3	31.5	11.1	1.04		11.2	4.0	0.2	1.03	18.9	10.0	5.8	3.7	0.87	1.03	1.00	1.00	0.53	1.30		0.55	1.02				0.00	0.37
26.40	26.33	1.74	0.58	82.8	30.2	10.6	1.16		8.2	4.3	0.2	1.03	15.1	10.3	5.8	4.0	0.87	1.03	1.00	1.00	0.53	1.30		0.55	1.10				0.00	0.37
26.50	26.45	1.69	0.56	82.4	30.1	10.6	1.17		12.5	4.4	0.2	1.03	20.4	10.4	5.8	4.1	0.87	1.03	1.00	1.00	0.53	1.30		0.56	1.12				0.00	0.37
26.60	26.58	1.48	0.49	80.8	29.2	10.3	1.25		8.9	4.6	0.2	1.03	15.9	10.6	5.8	4.3	0.87	1.03	1.00	1.00	0.53	1.30		0.56	1.18				0.00	0.37
26.80	26.71	1.26	0.42	78.8	28.3	9.9	1.36		9.6	4.7	0.2	1.02	16.8	10.8	5.8	4.5	0.87	1.03	1.00	1.00	0.54	1.30		0.56	1.25				0.00	0.37
26.90	26.85	1.23	0.41	78.4	28.1	9.8	1.38		7.3	4.7	0.2	1.02	14.0	10.8	5.9	4.4	0.87	1.03	1.00	1.00	0.54	0.79	1.47	0.56	1.27				0.00	0.37
27.00	26.98	1.46	0.49	80.5	29.1	10.2	1.26		6.8	4.3	0.2	1.02	13.3	10.3	5.8	4.0	0.87	1.03	1.00	1.00	0.54	0.72	1.35	0.56	1.19				0.00	0.37
27.20	27.10	1.90	0.63	83.7	30.7	10.8	1.10		6.0	4.0	0.2	1.02	12.4	9.9	5.8	3.7	0.87	1.03	1.00	1.00	0.54	1.30		0.57	1.09				0.00	0.37
27.30	27.24	2.05	0.68	84.6	31.1	11.0	1.06		5.9	3.9	0.2	1.02	12.2	9.8	5.8	3.6	0.87	1.03	1.00	1.00	0.54	1.30		0.57	1.07				0.00	0.37

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Z_b (ft)	Z_m (ft)	$C_c/(1+e_0)$(%)	$C_r/(1+e_0)$(%)	μ_{FC}	μ_{LL}	μ_{PI}	K_0	D_R (%)	$N_{60L\&B}$	$(N_{60})_{Ic}$	$(N_1)_{60I\&B}$	C_N	$(N_1)_{60csL\&R}$	$(N_1)_{60csIc}$	$(N_1)_{60csI\&B}$	$(N_1)_{60qc1ncs}$	r_d	MSF	K_σ	K_α	$CSR_{7.5}$	$CRR_{7.5}$	FS	τ_{av} (tsf)	p'(tsf)	γ_{max} (%)	G/G_0	ε_v (%)	ΔS_i	ΣS_i (in)
27.40	27.38	1.93	0.64	83.8	30.7	10.8	1.10		6.0	4.0	0.2	1.02	12.4	9.8	5.8	3.6	0.86	1.03	1.00	1.00	0.54	1.30		0.57	1.09				0.00	0.37
27.60	27.50	1.84	0.61	83.2	30.5	10.7	1.12		6.2	4.0	0.2	1.01	12.5	9.9	5.8	3.7	0.86	1.03	1.00	1.00	0.54	0.64	1.19	0.57	1.11				0.00	0.37
27.70	27.64	2.17	0.72	85.2	31.5	11.1	1.03		5.8	3.8	0.2	1.01	12.0	9.7	5.8	3.4	0.86	1.03	1.00	1.00	0.54	1.30		0.58	1.05				0.00	0.37
27.80	27.76	2.52	0.84	87.0	32.4	11.5	0.96		5.4	3.7	0.2	1.01	11.6	9.5	5.8	3.3	0.86	1.03	1.00	1.00	0.54	1.30		0.58	1.01				0.00	0.37
28.00	27.90	2.54	0.85	87.1	32.4	11.5	0.95		5.4	3.7	0.2	1.01	11.6	9.5	5.8	3.3	0.86	1.03	1.00	1.00	0.54	1.30		0.58	1.01				0.00	0.37
28.10	28.04	2.61	0.87	87.4	32.6	11.6	0.94		5.4	3.7	0.2	1.01	11.5	9.5	5.8	3.2	0.86	1.03	1.00	1.00	0.54	1.30		0.58	1.00				0.00	0.37
28.20	28.17	2.73	0.91	87.9	32.9	11.7	0.92		7.1	3.7	0.2	1.01	13.5	9.4	5.8	3.2	0.86	1.03	1.00	1.00	0.54	1.30		0.58	0.99				0.00	0.37
28.30	28.30	1.07	0.36	75.4	26.8	9.3	1.54		8.4	4.9	0.3	1.00	15.1	10.9	5.9	4.5	0.86	1.03	1.00	1.00	0.54	0.88	1.63	0.59	1.43				0.00	0.37
28.50	28.43	0.99	0.33	73.5	26.0	9.0	1.67		9.0	5.2	0.3	1.00	15.9	11.2	5.9	4.8	0.86	1.03	1.00	1.00	0.54	0.95	1.76	0.59	1.52				0.00	0.37
28.60	28.57	2.41	0.80	86.3	32.1	11.4	0.98		7.5	3.9	0.2	1.00	14.0	9.7	5.8	3.4	0.86	1.03	1.00	1.00	0.54	1.30		0.59	1.04				0.00	0.37
28.80	28.69	2.37	0.79	86.1	31.9	11.3	0.98		7.6	4.0	0.2	1.00	14.1	9.8	5.8	3.4	0.86	1.03	1.00	1.00	0.54	1.30		0.59	1.05				0.00	0.37
28.90	28.82	2.36	0.79	86.0	31.9	11.3	0.99		7.6	4.1	0.2	1.00	14.1	9.9	5.8	3.5	0.86	1.03	1.00	1.00	0.54	1.30		0.59	1.05				0.00	0.37
29.00	28.94	2.06	0.69	84.4	31.0	11.0	1.06		12.2	4.5	0.2	1.00	19.6	10.4	5.8	3.9	0.85	1.03	1.00	1.00	0.54	1.30		0.60	1.11				0.00	0.37
29.10	29.07	1.28	0.43	78.6	28.2	9.9	1.34		15.1	5.2	0.2	0.99	23.0	11.2	5.8	4.6	0.85	1.03	1.00	1.00	0.54	1.30	2.00	0.60	1.31				0.00	0.37
29.30	29.22	0.55	0.05	59.2	20.5	6.9	0.38	56.6	15.9	8.2	0.7	0.99	23.1	14.2	6.1	22.5	0.85	1.08	1.00	1.00	0.52	0.13	2.00	0.60	0.63				0.00	0.37
29.40	29.36	0.95	0.32	72.5	25.5	8.8	1.72		12.7	6.1	0.3	0.99	20.1	12.3	5.9	5.5	0.85	1.03	1.00	1.00	0.54	0.98	2.00	0.60	1.60				0.00	0.37
29.50	29.47	0.94	0.31	72.0	25.3	8.7	1.75		13.0	6.3	0.3	0.99	20.4	12.5	5.9	5.6	0.85	1.03	1.00	1.00	0.54	1.00	2.00	0.61	1.62				0.00	0.37
29.70	29.60	0.84	0.28	69.3	24.2	8.3	1.95		14.4	6.8	0.3	0.99	22.1	13.0	6.0	6.1	0.85	1.03	1.00	1.00	0.54	1.12	2.00	0.61	1.77				0.00	0.37
29.80	29.73	0.81	0.27	68.4	23.9	8.2	2.03		22.5	7.3	0.3	0.99	31.6	13.6	6.0	6.5	0.85	1.03	1.00	1.00	0.54	1.16	2.00	0.61	1.84				0.00	0.37
29.90	29.87	0.65	0.22	63.1	21.9	7.4	2.52		18.4	8.3	0.4	0.98	26.7	14.8	6.0	7.6	0.85	1.03	1.00	1.00	0.54	1.30	2.00	0.61	2.20				0.00	0.37
30.10	30.01	0.42	0.14	52.7	18.5	6.1	0.44	60.5	20.8	10.6	2.0	0.98	28.1	16.5	7.3	26.6	0.85	1.10	1.00	1.00	0.51	0.14	2.00	0.61	0.69				0.00	0.37
30.20	30.14	1.12	0.37	76.3	27.2	9.4	1.46		16.8	5.8	0.3	0.98	24.7	11.9	5.9	5.1	0.85	1.03	1.00	1.00	0.54	1.30	2.00	0.62	1.44				0.00	0.37
30.30	30.27	1.17	0.39	77.2	27.6	9.6	1.40		16.3	5.8	0.2	0.98	24.1	11.8	5.8	5.0	0.85	1.03	1.00	1.00	0.54	1.30	2.00	0.62	1.40				0.00	0.37
30.50	30.41	0.91	0.30	71.3	25.0	8.6	1.79		20.4	6.7	0.3	0.98	28.9	12.8	5.9	5.9	0.85	1.03	1.00	1.00	0.54	1.02	1.88	0.62	1.69				0.00	0.37
30.60	30.54	0.83	0.28	69.0	24.1	8.3	1.96		22.3	7.1	0.3	0.98	31.0	13.4	6.0	6.3	0.84	1.03	1.00	1.00	0.54	1.12	2.00	0.62	1.83				0.00	0.37
30.70	30.66	0.90	0.30	71.0	24.9	8.6	1.81		20.7	6.7	0.3	0.97	29.2	12.8	5.9	5.8	0.84	1.03	1.00	1.00	0.54	1.03	1.90	0.63	1.72				0.00	0.37
30.80	30.79	0.98	0.33	72.8	25.7	8.9	1.67		19.3	6.4	0.3	0.97	27.5	12.4	5.9	5.5	0.84	1.03	1.00	1.00	0.54	1.30		0.63	1.62				0.00	0.37
31.00	30.92	0.99	0.33	73.0	25.8	8.9	1.65		19.2	6.3	0.3	0.97	27.4	12.3	5.9	5.4	0.84	1.03	1.00	1.00	0.54	0.95	1.74	0.63	1.61				0.00	0.37
31.10	31.06	1.02	0.34	73.8	26.1	9.0	1.60		12.5	6.1	0.3	0.97	19.5	12.1	5.9	5.2	0.84	1.03	1.00	1.00	0.54	0.91	1.68	0.63	1.58				0.00	0.37
31.30	31.19	1.03	0.34	74.0	26.2	9.1	1.59		12.4	6.0	0.3	0.97	19.4	12.0	5.9	5.1	0.84	1.03	1.00	1.00	0.54	0.91	1.66	0.63	1.57				0.00	0.37
31.40	31.32	1.03	0.34	74.0	26.2	9.1	1.58		12.4	6.0	0.3	0.97	19.4	11.9	5.9	5.0	0.84	1.03	1.00	1.00	0.54	0.90	1.66	0.64	1.57				0.00	0.37
31.50	31.44	1.19	0.40	77.3	27.6	9.6	1.38		11.0	5.4	0.2	0.96	17.7	11.2	5.9	4.5	0.84	1.03	1.00	1.00	0.54	0.79	1.45	0.64	1.43				0.00	0.37
31.60	31.58	1.49	0.50	80.0	28.9	10.1	1.23		10.0	5.1	0.2	0.96	16.5	10.9	5.8	4.2	0.84	1.03	1.00	1.00	0.54	1.30		0.64	1.32				0.00	0.37
31.80	31.70	1.49	0.50	79.9	28.8	10.1	1.24		15.1	5.3	0.2	0.96	22.4	11.1	5.8	4.3	0.84	1.03	1.00	1.00	0.54	1.30		0.64	1.33				0.00	0.37
31.90	31.83	0.60	0.06	61.1	21.2	7.1	0.35	55.7	15.4	8.1	0.5	0.96	22.2	14.0	6.0	22.9	0.84	1.08	0.99	1.00	0.53	0.12	2.00	0.64	0.65				0.00	0.37
32.00	31.97	0.91	0.30	71.0	24.9	8.6	1.78		14.1	6.7	0.3	0.96	21.2	12.7	5.9	5.6	0.84	1.03	1.00	1.00	0.55	1.02	2.00	0.65	1.75				0.00	0.37
32.20	32.10	1.15	0.38	76.4	27.2	9.5	1.42		17.3	5.9	0.3	0.96	24.8	11.8	5.9	4.9	0.83	1.03	1.00	1.00	0.55	1.30	2.00	0.65	1.48				0.00	0.37
32.30	32.23	2.03	0.68	83.6	30.6	10.8	1.06		13.3	4.9	0.2	0.95	20.3	10.6	5.8	3.9	0.83	1.03	0.99	1.00	0.55	1.30		0.65	1.21				0.00	0.37
32.40	32.36	2.11	0.70	84.0	30.9	10.9	1.04		13.2	4.7	0.2	0.95	20.0	10.4	5.8	3.7	0.83	1.03	0.99	1.00	0.55	1.30		0.65	1.19				0.00	0.37
32.60	32.49	2.17	0.72	84.4	31.0	11.0	1.02		8.7	4.6	0.2	0.95	14.9	10.3	5.8	3.6	0.83	1.03	0.99	1.00	0.55	1.30		0.66	1.19				0.00	0.37
32.70	32.62	2.12	0.71	84.0	30.9	10.9	1.03		8.8	4.6	0.2	0.95	15.0	10.3	5.8	3.6	0.83	1.03	0.99	1.00	0.55	1.30		0.66	1.20				0.00	0.37
32.80	32.75	2.11	0.70	84.0	30.8	10.9	1.04		8.8	4.6	0.2	0.95	15.1	10.3	5.8	3.6	0.83	1.03	0.99	1.00	0.55	1.30		0.66	1.20				0.00	0.37
33.00	32.89	2.00	0.67	83.3	30.5	10.7	1.06		9.1	4.7	0.2	0.95	15.3	10.4	5.8	3.7	0.83	1.03	0.99	1.00	0.55	1.30		0.66	1.23				0.00	0.37
33.10	33.02	1.74	0.58	81.6	29.7	10.4	1.14		9.7	5.0	0.2	0.95	16.0	10.7	5.8	3.9	0.83	1.03	0.99	1.00	0.55	1.30		0.66	1.29				0.00	0.37
33.20	33.15	1.38	0.46	78.8	28.3	9.9	1.28		10.7	5.4	0.2	0.94	17.2	11.2	5.8	4.3	0.83	1.03	0.99	1.00	0.55	1.30		0.67	1.41				0.00	0.37
33.40	33.29	1.35	0.45	78.5	28.2	9.8	1.29		10.8	5.6	0.2	0.94	17.3	11.3	5.8	4.4	0.83	1.03	0.99	1.00	0.55	1.30		0.67	1.42				0.00	0.37
33.50	33.42	1.61	0.54	80.6	29.2	10.2	1.18		15.1	5.4	0.2	0.94	22.1	11.1	5.8	4.2	0.83	1.03	0.99	1.00	0.55	1.30		0.67	1.34				0.00	0.37
33.60	33.54	1.50	0.50	79.8	28.8	10.1	1.22		15.6	5.5	0.2	0.94	22.6	11.2	5.8	4.3	0.83	1.03	0.99	1.00	0.55	1.30		0.67	1.38				0.00	0.37
33.80	33.67	0.67	0.22	63.5	22.0	7.5	2.38		14.4	8.0	0.4	0.94	21.2	14.1	6.0	6.6	0.82	1.03	0.99	1.00	0.55	1.30	2.00	0.67	2.31				0.00	0.37
33.90	33.81	0.51	0.05	57.1	19.8	6.6	0.38	57.6	18.5	9.5	1.1	0.94	24.7	14.9	6.5	23.5	0.82	1.08	0.99	1.00	0.53	0.13	2.00	0.68	0.71				0.00	0.37
34.00	33.93	0.82	0.27	68.2	23.8	8.1	1.96		16.1	7.7	0.3	0.94	23.1	13.6	6.0	6.2	0.82	1.03	0.99	1.00	0.55	1.12	2.00	0.68	1.98				0.00	0.37
34.10	34.07	0.84	0.28	68.7	24.0	8.2	1.92		23.8	7.7	0.3	0.93	31.6	13.7	6.0	6.2	0.82	1.03	0.99	1.00	0.55	1.09	2.00	0.68	1.95				0.00	0.37
34.30	34.20	0.83	0.28	68.2	23.8	8.1	1.95		24.3	7.8	0.3	0.93	32.2	13.8	6.0	6.3	0.82	1.03	0.99	1.00	0.55	1.12	2.00	0.68	1.99				0.00	0.37
34.40	34.33	0.63	0.21	61.8	21.4	7.2	2.53		20.7	9.3	0.4	0.93	28.1	15.4	6.0	7.6	0.82	1.03	0.99	1.00	0.55	1.30	2.00	0.68	2.47				0.00	0.37
34.50	34.46	0.38	0.13	49.5	17.5	5.8	0.45	61.9	20.1	12.3	3.0	0.93	25.3	17.1	8.1	25.1	0.82	1.11	0.98	1.00	0.51	0.14	2.00	0.69	0.78				0.00	0.37
34.70	34.60	0.97	0.32	72.1	25.4	8.7	1.66		14.1	6.8	0.3	0.93	20.7	12.6	5.9	5.3	0.82	1.03	0.99	1.00	0.55	0.95	2.00	0.69	1.77				0.00	0.37
34.80	34.73	1.71	0.57	81.0	29.4	10.3	1.15		15.3	5.6	0.2	0.93	22.0	11.3	5.8	4.2	0.82	1.03	0.99	1.00	0.55	1.30	2.00	0.69	1.36				0.00	0.37
34.90	34.85	1.60	0.53	80.1	28.9	10.1	1.19		15.8	6.0	0.2	0.93	22.5	11.7	5.8	4.5	0.82	1.03	0.99	1.00	0.55	1.30		0.69	1.39				0.00	0.37
35.10	34.99	0.79	0.26	66.9	23.3	7.9	2.05		25.8	8.7	0.4	0.92	33.6	14.6	6.0	6.9	0.82	1.03	0.99	1.00	0.55	1.30		0.69	2.10				0.00	0.37
35.20	35.12	0.54	0.18	57.6	20.0	6.7	2.99		37.0	11.2	0.6	0.92	46.0	17.4	6.2	9.1	0.82	1.04	0.99	1.00	0.55	1.30	2.00	0.70	2.89				0.00	0.37
35.30	35.24	0.27	0.09	41.5	15.3	5.0	0.53	69.0	35.0	17.6	6.3	0.92	41.4	23.1	11.6	40.7	0.81	1.17	0.98	1.00	0.49	0.20	2.00	0.70	0.86				0.00	0.37
35.40	35.38	0.19	0.06	32.8	13.3	4.2	0.63	75.3	39.6	22.8	11.9	0.92	43.2	26.4	16.5	37.2	0.81	1.28	0.97	1.00	0.45	0.34	2.00	0.70	0.94				0.00	0.37
35.60	35.51	0.72	0.24	27.4	12.2	3.8	0.69	78.9	41.2	26.8	16.8	0.92	42.6	28.8	20.4	36.0	0.81	1.37	0.97	1.00	0.42	0.59	1.40	0.70	1.00	1.534		0.33	0.01	0.37
35.70	35.64	0.61	0.20	21.7	11.1	3.5	0.77	79.3	38.9	31.4	23.4	0.92	37.7	30.6	24.9	34.5	0.81	1.38	0.97	1.00	0.42	0.63	1.51	0.71	1.07	1.188		0.26	0.00	0.36
35.80	35.77	0.42	0.14	18.5	10.5	3.3	0.82	77.2	35.5	33.4	27.8	0.91	32.8	30.8	27.9	32.0	0.81	1.32	0.97	1.00	0.44	0.44	1.01	0.71	1.11	3.408		0.79	0.01	0.35
36.00	35.91	0.43	0.14	19.0	10.6	3.3	0.81	76.5	34.9	31.8	27.1	0.91	31.8	29.0	27.1	29.0	0.81	1.31	0.97	1.00	0.44	0.40	0.91	0.71	1.11	4.239		1.00	0.02	0.33
36.10	36.03	0.44	0.15	19.9	10.8	3.3	0.79	75.2	33.7	30.6	25.8	0.91	30.7	27.9	25.8	27.9	0.81	1.28	0.97	1.00	0.45	0.34	0.75	0.71	1.10	6.149		1.52	0.02	0.31
36.20	36.16	0.33	0.11	19.3	10.6	3.3	0.80	76.2	34.6	31.3	26.7	0.91	31.5	28.4	26.7	28.4	0.81	1.30	0.97	1.00	0.44	0.38	0.85	0.71	1.11	4.742		1.14	0.01	0.30
36.40	36.30	0.43	0.14	18.9	10.6	3.3	0.81	76.7	35.2	32.2	27.3	0.91	32.0	29.2	27.3	29.2	0.81	1.31	0.97	1.00	0.44	0.41	0.93	0.72	1.12	4.026		0.95	0.02	0.28

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Z_b (ft)	Z_m (ft)	$C_c/(1+e_0)$(%)	$C_r/(1+e_0)$(%)	μ_{FC}	μ_{LL}	μ_{PI}	K_0	D_R (%)	$N_{60L\&B}$	$(N_{60})_{Ic}$	$(N_1)_{60I\&B}$	C_N	$(N_1)_{60csL\&R}$	$(N_1)_{60csIc}$	$(N_1)_{60csI\&B}$	$(N_1)_{60qc1ncs}$	r_d	MSF	K_σ	K_α	$CSR_{7.5}$	$CRR_{7.5}$	FS	τ_{av} (tsf)	p'(tsf)	γ_{max} (%)	G/G_0	ε_v (%)	ΔS_i	ΣS_i (in)
36.50	36.43	0.43	0.14	19.1	10.6	3.3	0.80	76.4	35.0	33.0	27.0	0.91	32.0	30.2	27.1	31.5	0.81	1.31	0.97	1.00	0.44	0.39	0.89	0.72	1.12	4.382		1.04	0.01	0.26
36.60	36.56	0.65	0.22	21.6	11.1	3.5	0.76	76.7	39.5	31.3	23.5	0.90	37.2	29.6	24.5	32.7	0.81	1.31	0.96	1.00	0.44	0.41	0.92	0.72	1.09	4.102		0.97	0.01	0.25
36.70	36.69	0.61	0.20	24.2	11.5	3.6	0.73	79.3	35.7	29.5	20.3	0.90	35.1	29.3	22.7	34.0	0.80	1.38	0.96	1.00	0.42	0.63	1.51	0.72	1.06	1.189		0.26	0.00	0.25
36.90	36.82	0.61	0.20	25.5	11.8	3.7	0.71	79.6	45.1	28.7	18.8	0.90	44.7	29.3	21.8	35.1	0.80	1.39	0.96	1.00	0.42	0.67	1.62	0.72	1.05	0.869		0.18	0.00	0.24
37.00	36.95	0.62	0.21	25.9	11.9	3.7	0.70	78.6	33.4	28.1	18.4	0.90	33.4	28.4	21.2	33.6	0.80	1.36	0.96	1.00	0.42	0.56	1.32	0.73	1.05	1.849		0.41	0.00	0.24
37.20	37.09	0.67	0.22	26.9	12.1	3.8	0.69	75.5	32.1	26.5	17.3	0.90	31.4	26.2	19.5	29.9	0.80	1.28	0.96	1.00	0.45	0.35	0.78	0.73	1.04	5.712		1.40	0.03	0.21
37.30	37.22	0.71	0.24	28.6	12.4	3.9	0.67	72.9	30.1	24.7	15.6	0.90	29.3	24.3	17.7	27.5	0.80	1.23	0.97	1.00	0.47	0.26	0.56	0.73	1.02	10.326		2.14	0.03	0.18
37.40	37.34	0.73	0.24	29.2	12.5	4.0	0.66	71.3	29.5	24.0	15.1	0.90	28.5	23.4	16.9	26.2	0.80	1.20	0.97	1.00	0.48	0.23	0.48	0.73	1.02	12.311		2.26	0.03	0.15
37.60	37.49	0.74	0.25	33.7	13.5	4.3	0.60	70.5	24.7	20.9	11.3	0.89	25.2	21.7	14.2	25.2	0.80	1.19	0.97	1.00	0.48	0.22	0.45	0.74	0.98	13.347		2.32	0.06	0.10
37.70	37.62	0.27	0.09	41.3	15.3	5.0	0.52	66.7	24.4	16.6	6.4	0.89	26.9	19.5	10.8	25.1	0.80	1.15	0.97	1.00	0.50	0.17	0.35	0.74	0.90	18.816		2.62	0.03	0.07
37.80	37.74	0.42	0.04	51.7	18.2	6.0	0.42	60.5	19.4	12.0	2.3	0.89	24.0	16.5	7.5	25.1	0.80	1.10	0.97	1.00	0.52	0.14	2.00	0.74	0.81				0.00	0.07
37.90	37.87	0.60	0.06	60.3	20.9	7.0	0.34	55.9	14.0	9.1	0.6	0.89	19.4	14.4	6.1	23.8	0.80	1.08	0.97	1.00	0.53	0.12	2.00	0.74	0.75				0.00	0.07
38.10	38.00	0.81	0.27	67.3	23.4	8.0	1.95		10.8	7.7	0.4	0.89	16.5	13.2	5.9	5.6	0.80	1.03	0.99	1.00	0.54	1.11	2.00	0.74	2.19				0.00	0.07
38.20	38.14	0.99	0.33	72.1	25.4	8.8	1.60		9.0	6.6	0.3	0.89	14.6	12.1	5.9	4.7	0.80	1.03	0.99	1.00	0.54	0.91	2.00	0.74	1.88				0.00	0.07
38.30	38.27	1.01	0.34	72.6	25.6	8.8	1.57		8.9	6.5	0.3	0.89	14.4	12.0	5.9	4.6	0.79	1.03	0.99	1.00	0.54	0.90	1.65	0.75	1.86				0.00	0.07
38.50	38.40	1.07	0.36	73.8	26.1	9.0	1.49		8.5	6.4	0.3	0.88	14.0	11.8	5.9	4.5	0.79	1.03	0.99	1.00	0.54	0.85	1.57	0.75	1.79				0.00	0.07
38.60	38.53	1.09	0.36	74.4	26.3	9.1	1.46		10.4	6.4	0.3	0.88	16.1	11.8	5.9	4.5	0.79	1.03	0.99	1.00	0.54	0.83	1.53	0.75	1.77				0.00	0.07
38.70	38.67	1.20	0.40	76.3	27.2	9.4	1.34		9.7	6.2	0.3	0.88	15.3	11.5	5.9	4.3	0.79	1.03	0.99	1.00	0.54	0.77	1.41	0.75	1.67				0.00	0.07
38.90	38.80	1.41	0.47	78.2	28.0	9.8	1.24		9.1	5.9	0.2	0.88	14.7	11.3	5.8	4.1	0.79	1.03	0.99	1.00	0.54	0.71	1.31	0.75	1.58				0.00	0.07
39.00	38.94	1.61	0.54	79.7	28.8	10.1	1.17		8.7	5.7	0.2	0.88	14.1	11.0	5.8	3.9	0.79	1.03	0.99	1.00	0.54	1.30		0.76	1.52				0.00	0.07
39.10	39.07	1.67	0.56	80.1	28.9	10.1	1.15		8.6	5.7	0.2	0.88	14.0	11.0	5.8	3.8	0.79	1.03	0.99	1.00	0.54	1.30		0.76	1.50				0.00	0.07
39.20	39.19	1.23	0.41	76.6	27.3	9.5	1.32		9.7	6.2	0.3	0.88	15.2	11.6	5.9	4.3	0.79	1.03	0.99	1.00	0.54	0.76	1.39	0.76	1.67				0.00	0.07
39.40	39.31	0.86	0.29	68.5	23.9	8.2	1.83		10.4	7.6	0.3	0.88	16.0	13.0	5.9	5.4	0.79	1.03	0.98	1.00	0.54	1.05	1.93	0.76	2.14				0.00	0.07
39.50	39.46	0.70	0.23	63.7	22.1	7.5	2.22		12.5	8.8	0.4	0.88	18.2	14.2	6.0	6.3	0.79	1.03	0.98	1.00	0.54	1.27	2.00	0.76	2.51				0.00	0.07
39.60	39.59	0.64	0.21	61.4	21.3	7.2	2.44		13.7	9.4	0.4	0.87	19.4	14.9	6.0	6.8	0.79	1.03	0.98	1.00	0.54	1.30	2.00	0.76	2.72				0.00	0.07
39.80	39.71	0.66	0.22	62.1	21.5	7.3	2.37		13.4	9.5	0.4	0.87	19.0	15.0	6.0	6.8	0.79	1.03	0.98	1.00	0.54	1.30	2.00	0.77	2.66				0.00	0.07
39.90	39.84	0.76	0.25	65.5	22.7	7.7	2.07		14.8	8.7	0.4	0.87	20.4	14.1	6.0	6.1	0.78	1.03	0.98	1.00	0.54	1.18	2.00	0.77	2.38				0.00	0.07
40.00	39.97	0.88	0.29	69.0	24.1	8.3	1.79		12.9	7.9	0.3	0.87	18.5	13.3	5.9	5.5	0.78	1.03	0.98	1.00	0.54	1.02	1.88	0.77	2.13				0.00	0.07
40.20	40.10	1.01	0.34	72.0	25.3	8.7	1.58		11.6	7.4	0.3	0.87	17.1	12.7	5.9	5.1	0.78	1.03	0.98	1.00	0.54	0.90	1.67	0.77	1.94				0.00	0.07
40.30	40.22	1.03	0.34	72.6	25.6	8.8	1.54		11.4	7.3	0.3	0.87	16.9	12.6	5.9	5.0	0.78	1.03	0.98	1.00	0.54	0.88	1.63	0.77	1.91				0.00	0.07
40.40	40.36	1.04	0.35	72.7	25.6	8.8	1.53		15.1	7.4	0.3	0.87	20.8	12.7	5.9	5.0	0.78	1.03	0.98	1.00	0.54	0.88	1.62	0.77	1.91				0.00	0.07
40.60	40.50	0.99	0.33	71.5	25.1	8.6	1.61		15.9	7.8	0.3	0.87	21.5	13.1	5.9	5.3	0.78	1.03	0.98	1.00	0.54	0.92	1.70	0.78	1.98				0.00	0.07
40.70	40.63	0.98	0.33	71.2	25.0	8.6	1.63		16.1	7.9	0.3	0.86	21.7	13.2	5.9	5.4	0.78	1.03	0.98	1.00	0.54	1.30		0.78	2.00				0.00	0.07
40.80	40.76	0.98	0.33	71.3	25.0	8.6	1.62		16.1	8.0	0.3	0.86	21.6	13.2	5.9	5.4	0.78	1.03	0.98	1.00	0.54	1.30		0.78	2.01				0.00	0.07
41.00	40.89	0.96	0.32	70.8	24.8	8.5	1.65		16.4	7.9	0.3	0.86	21.9	13.2	5.9	5.4	0.78	1.03	0.98	1.00	0.54	0.94	1.74	0.78	2.04				0.00	0.07
41.10	41.03	1.00	0.33	71.6	25.2	8.7	1.59		15.9	7.7	0.3	0.86	21.4	13.0	5.9	5.2	0.78	1.03	0.98	1.00	0.54	0.91	1.69	0.78	1.99				0.00	0.07
41.20	41.17	1.31	0.44	76.7	27.4	9.5	1.30		19.9	6.9	0.2	0.86	25.5	12.1	5.8	4.5	0.78	1.03	0.98	1.00	0.54	1.30		0.79	1.71				0.00	0.07
41.30	41.29	1.68	0.56	79.7	28.7	10.1	1.15		17.9	6.4	0.2	0.86	23.5	11.6	5.8	4.1	0.78	1.03	0.98	1.00	0.54	1.30		0.79	1.57				0.00	0.07
41.50	41.42	1.66	0.55	79.6	28.7	10.0	1.15		12.0	6.3	0.2	0.86	17.4	11.5	5.8	4.0	0.77	1.03	0.98	1.00	0.54	1.30		0.79	1.58				0.00	0.07
41.60	41.55	1.08	0.36	73.6	26.0	9.0	1.46		11.2	6.9	0.3	0.86	16.5	12.1	5.9	4.6	0.77	1.03	0.98	1.00	0.54	0.84	1.55	0.79	1.89				0.00	0.07
41.70	41.68	1.00	0.33	72.0	25.3	8.7	1.56		11.9	7.1	0.3	0.86	17.2	12.2	5.9	4.7	0.77	1.03	0.98	1.00	0.54	0.89	1.65	0.79	1.99				0.00	0.07
41.90	41.82	0.96	0.32	70.9	24.9	8.6	1.63		12.4	7.2	0.3	0.85	17.7	12.4	5.9	4.8	0.77	1.03	0.98	1.00	0.54	0.93	1.73	0.79	2.06				0.00	0.07
42.00	41.95	0.87	0.29	68.6	23.9	8.2	1.79		13.5	7.8	0.3	0.85	18.8	12.9	5.9	5.2	0.77	1.03	0.98	1.00	0.54	1.02	1.90	0.80	2.22				0.00	0.07
42.10	42.08	1.88	0.63	81.0	29.4	10.3	1.08		11.6	6.1	0.2	0.85	16.8	11.2	5.8	3.8	0.77	1.03	0.98	1.00	0.54	1.30		0.80	1.54				0.00	0.07
42.30	42.20	1.79	0.60	80.4	29.1	10.2	1.11		11.8	6.2	0.2	0.85	17.1	11.4	5.8	3.9	0.77	1.03	0.98	1.00	0.54	1.30		0.80	1.57				0.00	0.07
42.40	42.32	1.69	0.56	79.7	28.7	10.1	1.14		12.1	6.4	0.2	0.85	17.4	11.6	5.8	4.0	0.77	1.03	0.98	1.00	0.54	1.30		0.80	1.60				0.00	0.07
42.50	42.46	1.23	0.41	75.9	27.0	9.4	1.33		13.9	7.1	0.3	0.85	19.2	12.2	5.9	4.5	0.77	1.03	0.98	1.00	0.54	1.30		0.80	1.79				0.00	0.07
42.70	42.59	1.00	0.33	71.4	25.1	8.6	1.59		16.4	8.1	0.3	0.85	21.7	13.2	5.9	5.2	0.77	1.03	0.98	1.00	0.54	1.30		0.80	2.05				0.00	0.07
42.80	42.73	0.56	0.19	57.8	20.0	6.7	2.75		20.4	11.2	0.5	0.85	25.8	16.4	6.1	7.6	0.77	1.04	0.98	1.00	0.54	1.30	2.00	0.81	3.20				0.00	0.07
42.90	42.86	0.48	0.05	54.2	18.9	6.3	0.38	59.0	23.4	11.9	1.7	0.85	27.5	16.3	7.1	26.4	0.77	1.09	0.96	1.00	0.52	0.13	2.00	0.81	0.87				0.00	0.07
43.10	42.99	0.82	0.27	66.7	23.2	7.9	1.92		19.6	9.3	0.4	0.84	24.8	14.4	6.0	6.1	0.76	1.03	0.98	1.00	0.54	1.10	2.00	0.81	2.39				0.00	0.07
43.20	43.13	0.72	0.24	63.3	22.0	7.4	2.19		22.2	10.4	0.4	0.84	27.5	15.5	6.0	6.8	0.76	1.03	0.98	1.00	0.54	1.25	2.00	0.81	2.67				0.00	0.07
43.30	43.25	0.28	0.09	41.7	15.4	5.0	0.49	67.3	30.7	18.0	6.2	0.84	32.3	20.6	11.0	29.1	0.76	1.15	0.95	1.00	0.50	0.18	2.00	0.81	0.99				0.00	0.07
43.50	43.38	0.50	0.17	54.9	19.1	6.4	3.07		30.6	13.3	0.7	0.84	35.9	18.4	6.3	8.9	0.76	1.04	0.98	1.00	0.54	1.30	2.00	0.81	3.56				0.00	0.07
43.60	43.52	0.41	0.14	50.1	17.7	5.8	3.72		27.7	15.1	1.7	0.84	32.9	20.2	7.3	10.2	0.76	1.04	0.97	1.00	0.54	1.30	2.00	0.82	4.23				0.00	0.07
43.70	43.66	0.45	0.15	52.2	18.3	6.1	3.42		20.5	13.8	1.2	0.84	25.6	18.9	6.8	9.3	0.76	1.04	0.97	1.00	0.54	1.30	2.00	0.82	3.93				0.00	0.07
43.80	43.79	0.63	0.21	60.4	20.9	7.1	2.45		18.8	10.8	0.5	0.84	23.8	15.9	6.0	7.1	0.76	1.04	0.98	1.00	0.54	1.30	2.00	0.82	2.97				0.00	0.07
44.00	43.91	0.95	0.32	70.2	24.6	8.4	1.65		13.1	8.0	0.3	0.84	18.1	13.0	5.9	5.0	0.76	1.03	0.98	1.00	0.54	0.94	1.76	0.82	2.17				0.00	0.07
44.10	44.04	1.14	0.38	74.6	26.5	9.2	1.38		11.1	7.1	0.3	0.84	16.2	12.1	5.9	4.4	0.76	1.03	0.98	1.00	0.54	0.79	1.47	0.82	1.90				0.00	0.07
44.20	44.17	1.32	0.44	76.6	27.3	9.5	1.27		10.4	6.9	0.2	0.83	15.4	11.9	5.9	4.2	0.76	1.03	0.98	1.00	0.54	1.30		0.83	1.80				0.00	0.07
44.40	44.30	1.26	0.42	76.1	27.1	9.4	1.30		10.6	6.8	0.3	0.83	15.6	11.8	5.9	4.2	0.76	1.03	0.98	1.00	0.54	0.74	1.38	0.83	1.83				0.00	0.07
44.50	44.44	1.57	0.52	78.8	28.3	9.9	1.16		9.7	6.3	0.2	0.83	14.7	11.3	5.8	3.8	0.76	1.03	0.98	1.00	0.54	0.66	1.24	0.83	1.69				0.00	0.07
44.60	44.57	2.04	0.68	81.9	29.8	10.5	1.03		8.7	5.8	0.2	0.83	13.7	10.8	5.8	3.5	0.75	1.03	0.98	1.00	0.53	1.30		0.83	1.56				0.00	0.07
44.80	44.70	2.40	0.80	83.7	30.7	10.8	0.95		8.2	5.6	0.2	0.83	13.2	10.6	5.8	3.3	0.75	1.03	0.98	1.00	0.53	1.30		0.83	1.48				0.00	0.07
44.90	44.82	2.29	0.76	83.1	30.4	10.7	0.97		8.4	5.7	0.2	0.83	13.3	10.7	5.8	3.4	0.75	1.03	0.98	1.00	0.53	1.30		0.83	1.51				0.00	0.07
45.00	44.95	2.04	0.68	81.8	29.7	10.4	1.03		8.8	6.0	0.2	0.83	13.7	10.9	5.8	3.5	0.75	1.03	0.98	1.00	0.53	1.30		0.83	1.57				0.00	0.07
45.20	45.09	1.96	0.65	81.2	29.5	10.3	1.05		9.0	6.1	0.2	0.83	13.9	11.0	5.8	3.6	0.75	1.03	0.98	1.00	0.53	1.30		0.84	1.60				0.00	0.07
45.30	45.22	1.95	0.65	81.2	29.5	10.3	1.05		9.0	6.1	0.2	0.83	13.9	11.0	5.8	3.6	0.75	1.03	0.98	1.00	0.53	1.30		0.84	1.60				0.00	0.07
45.40	45.34	2.01	0.67	81.5	29.6	10.4	1.03		8.9	6.0	0.2	0.83	13.8	11.0	5.8	3.5	0.75	1.03	0.98	1.00	0.53	1.30		0.84	1.59				0.00	0.07

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Z_b (ft)	Z_m (ft)	$C_c/(1+e_0)$(%)	$C_r/(1+e_0)$(%)	μ_{FC}	μ_{LL}	μ_{PI}	K_0	D_R (%)	$N_{60L\&B}$	$(N_{60})_{Ic}$	$(N_1)_{60I\&B}$	C_N	$(N_1)_{60csL\&R}$	$(N_1)_{60csIc}$	$(N_1)_{60csI\&B}$	$(N_1)_{60qc1ncs}$	r_d	MSF	K_σ	K_α	$CSR_{7.5}$	$CRR_{7.5}$	FS	τ_{av} (tsf)	p'(tsf)	γ_{max} (%)	G/G_0	ε_v (%)	ΔS_i	ΣS_i (in)
45.60	45.48	2.08	0.69	82.0	29.8	10.5	1.02		8.8	5.9	0.2	0.82	13.7	10.9	5.8	3.4	0.75	1.03	0.98	1.00	0.53	1.30		0.84	1.57				0.00	0.07
45.70	45.62	2.13	0.71	82.2	30.0	10.5	1.00		8.7	5.9	0.2	0.82	13.6	10.8	5.8	3.4	0.75	1.03	0.98	1.00	0.53	1.30		0.84	1.56				0.00	0.07
45.80	45.74	1.91	0.64	81.0	29.4	10.3	1.05		9.1	6.0	0.2	0.82	14.0	10.9	5.8	3.5	0.75	1.03	0.98	1.00	0.53	1.30		0.84	1.62				0.00	0.07
46.00	45.88	1.69	0.56	79.6	28.7	10.0	1.12		7.7	6.1	0.2	0.82	12.6	11.0	5.8	3.6	0.75	1.03	0.98	1.00	0.53	0.64	1.20	0.84	1.69				0.00	0.07
46.10	46.02	1.52	0.51	78.3	28.1	9.8	1.17		8.0	6.3	0.2	0.82	12.9	11.2	5.8	3.7	0.75	1.03	0.98	1.00	0.53	0.67	1.26	0.85	1.75				0.00	0.07
46.20	46.15	1.38	0.46	77.1	27.5	9.6	1.23		8.4	6.6	0.2	0.82	13.2	11.5	5.9	3.9	0.74	1.03	0.98	1.00	0.53	0.70	1.32	0.85	1.82				0.00	0.07
46.30	46.27	1.28	0.43	76.2	27.1	9.4	1.28		10.8	6.8	0.3	0.82	15.7	11.7	5.9	4.0	0.74	1.03	0.98	1.00	0.53	0.73	1.37	0.85	1.87				0.00	0.07
46.50	46.40	1.35	0.45	76.7	27.4	9.5	1.25		10.7	6.9	0.2	0.82	15.5	11.8	5.9	4.0	0.74	1.03	0.98	1.00	0.53	0.71	1.34	0.85	1.84				0.00	0.07
46.60	46.52	1.48	0.49	77.7	27.8	9.7	1.20		10.3	6.8	0.2	0.82	15.1	11.7	5.8	4.0	0.74	1.03	0.98	1.00	0.53	1.30		0.85	1.79				0.00	0.07
46.70	46.66	1.50	0.50	77.8	27.9	9.7	1.19		10.3	6.9	0.2	0.82	15.1	11.7	5.8	4.0	0.74	1.03	0.98	1.00	0.53	1.30		0.85	1.79				0.00	0.07
46.90	46.80	1.50	0.50	77.6	27.8	9.7	1.20		13.9	7.2	0.2	0.82	18.6	12.1	5.8	4.2	0.74	1.03	0.98	1.00	0.53	1.30		0.85	1.81				0.00	0.07
47.00	46.94	1.01	0.34	71.0	24.9	8.6	1.56		26.3	9.0	0.3	0.81	30.7	13.8	5.9	5.4	0.74	1.03	0.98	1.00	0.53	1.30	2.00	0.86	2.20				0.00	0.07
47.10	47.06	0.38	0.13	48.0	17.1	5.6	0.42	63.5	31.1	15.9	3.5	0.81	34.0	19.7	8.9	34.8	0.74	1.12	0.95	1.00	0.51	0.15	2.00	0.86	0.98				0.00	0.07
47.30	47.18	0.25	0.08	38.5	14.6	4.7	0.51	70.2	36.0	21.2	7.9	0.81	36.1	22.9	12.8	33.4	0.74	1.19	0.94	1.00	0.48	0.21	0.44	0.86	1.08	13.751		1.67	0.04	0.03
47.40	47.32	0.21	0.07	34.1	13.6	4.3	0.56	73.4	42.8	24.2	10.9	0.81	40.9	24.6	15.3	33.1	0.74	1.24	0.93	1.00	0.46	0.28	0.60	0.86	1.14	9.742		2.10	0.03	0.00
47.50	47.45	0.48	0.16	53.3	18.6	6.2	3.17		34.0	15.0	0.9	0.81	38.1	19.6	6.5	9.3	0.74	1.04	0.97	1.00	0.53	1.30	2.00	0.86	3.94				0.00	0.00
47.70	47.59	0.80	0.27	65.2	22.6	7.7	1.96		32.8	10.9	0.4	0.81	36.8	15.6	6.0	6.6	0.74	1.03	0.97	1.00	0.53	1.30	2.00	0.86	2.66				0.00	0.00
47.80	47.72	0.94	0.31	69.1	24.1	8.3	1.68		19.0	9.4	0.3	0.81	23.4	14.1	5.9	5.5	0.73	1.03	0.98	1.00	0.53	1.30		0.87	2.36				0.00	0.00
47.90	47.84	0.58	0.19	58.3	20.2	6.8	2.58		21.2	11.7	0.5	0.81	25.5	16.3	6.0	7.1	0.73	1.04	0.97	1.00	0.53	1.30	2.00	0.87	3.34				0.00	0.00
48.00	47.97	0.59	0.20	58.7	20.4	6.8	2.54		20.9	11.5	0.5	0.81	25.2	16.1	6.0	7.0	0.73	1.04	0.97	1.00	0.53	1.30	2.00	0.87	3.30				0.00	0.00
48.20	48.10	1.00	0.33	70.7	24.8	8.5	1.57		18.0	8.8	0.3	0.80	22.4	13.5	5.9	5.1	0.73	1.03	0.98	1.00	0.53	0.90	1.70	0.87	2.26				0.00	0.00
48.30	48.23	0.77	0.26	64.5	22.4	7.6	2.01		16.9	10.1	0.4	0.80	21.3	14.7	6.0	6.0	0.73	1.03	0.97	1.00	0.53	1.15	2.00	0.87	2.74				0.00	0.00
48.40	48.38	0.71	0.24	63.0	21.9	7.4	2.13		17.9	10.3	0.4	0.80	22.3	14.9	6.0	6.1	0.73	1.03	0.97	1.00	0.53	1.22	2.00	0.87	2.88				0.00	0.00
48.60	48.51	0.75	0.25	64.1	22.2	7.5	2.04		17.3	9.9	0.4	0.80	21.6	14.5	6.0	5.9	0.73	1.03	0.97	1.00	0.53	1.16	2.00	0.88	2.79				0.00	0.00
48.70	48.64	0.78	0.26	65.2	22.6	7.7	1.95		16.6	9.5	0.4	0.80	21.0	14.1	6.0	5.6	0.73	1.03	0.97	1.00	0.53	1.11	2.00	0.88	2.70				0.00	0.00
48.80	48.78	0.74	0.25	64.1	22.2	7.5	2.04		17.3	9.8	0.4	0.80	21.6	14.4	6.0	5.8	0.73	1.03	0.97	1.00	0.53	1.16	2.00	0.88	2.80				0.00	0.00
49.00	48.91	1.72	0.57	79.0	28.4	9.9	1.12		13.5	7.0	0.2	0.80	18.0	11.8	5.8	3.9	0.73	1.03	0.98	1.00	0.53	1.30		0.88	1.79				0.00	0.00
49.10	49.04	2.12	0.71	81.4	29.6	10.4	1.01		12.5	6.7	0.2	0.80	17.0	11.4	5.8	3.7	0.73	1.03	0.97	1.00	0.53	1.30		0.88	1.68				0.00	0.00
49.20	49.16	2.54	0.85	83.6	30.6	10.8	0.93		11.6	6.4	0.2	0.80	16.1	11.1	5.8	3.4	0.73	1.03	0.97	1.00	0.53	1.30		0.88	1.59				0.00	0.00
49.40	49.30	2.83	0.94	84.9	31.3	11.1	0.88		11.2	6.1	0.2	0.80	15.7	10.8	5.8	3.2	0.73	1.03	0.97	1.00	0.53	1.30		0.88	1.54				0.00	0.00
49.50	49.43	3.23	1.08	86.5	32.1	11.4	0.83		10.6	5.9	0.2	0.80	15.1	10.6	5.8	3.1	0.72	1.03	0.97	1.00	0.53	1.30		0.89	1.48				0.00	0.00
49.60	49.54	3.44	1.15	87.2	32.5	11.5	0.80		10.4	5.8	0.2	0.79	14.9	10.5	5.7	3.0	0.72	1.03	0.97	1.00	0.53	1.30		0.89	1.46				0.00	0.00
49.80	49.69	3.52	1.17	87.5	32.7	11.6	0.79		10.3	5.7	0.2	0.79	14.8	10.5	5.7	3.0	0.72	1.03	0.97	1.00	0.52	1.30		0.89	1.45				0.00	0.00
49.90	49.83	1.12	0.37	73.8	26.1	9.0	1.37		12.3	7.5	0.3	0.79	16.7	12.1	5.9	4.2	0.72	1.03	0.97	1.00	0.52	0.78	1.49	0.89	2.10				0.00	0.00
50.00	49.92	1.03	0.34	71.8	25.2	8.7	1.48		13.3	7.8	0.3	0.79	17.6	12.4	5.9	4.4	0.72	1.03	0.97	1.00	0.52	0.85	1.62	0.89	2.23				0.00	0.00

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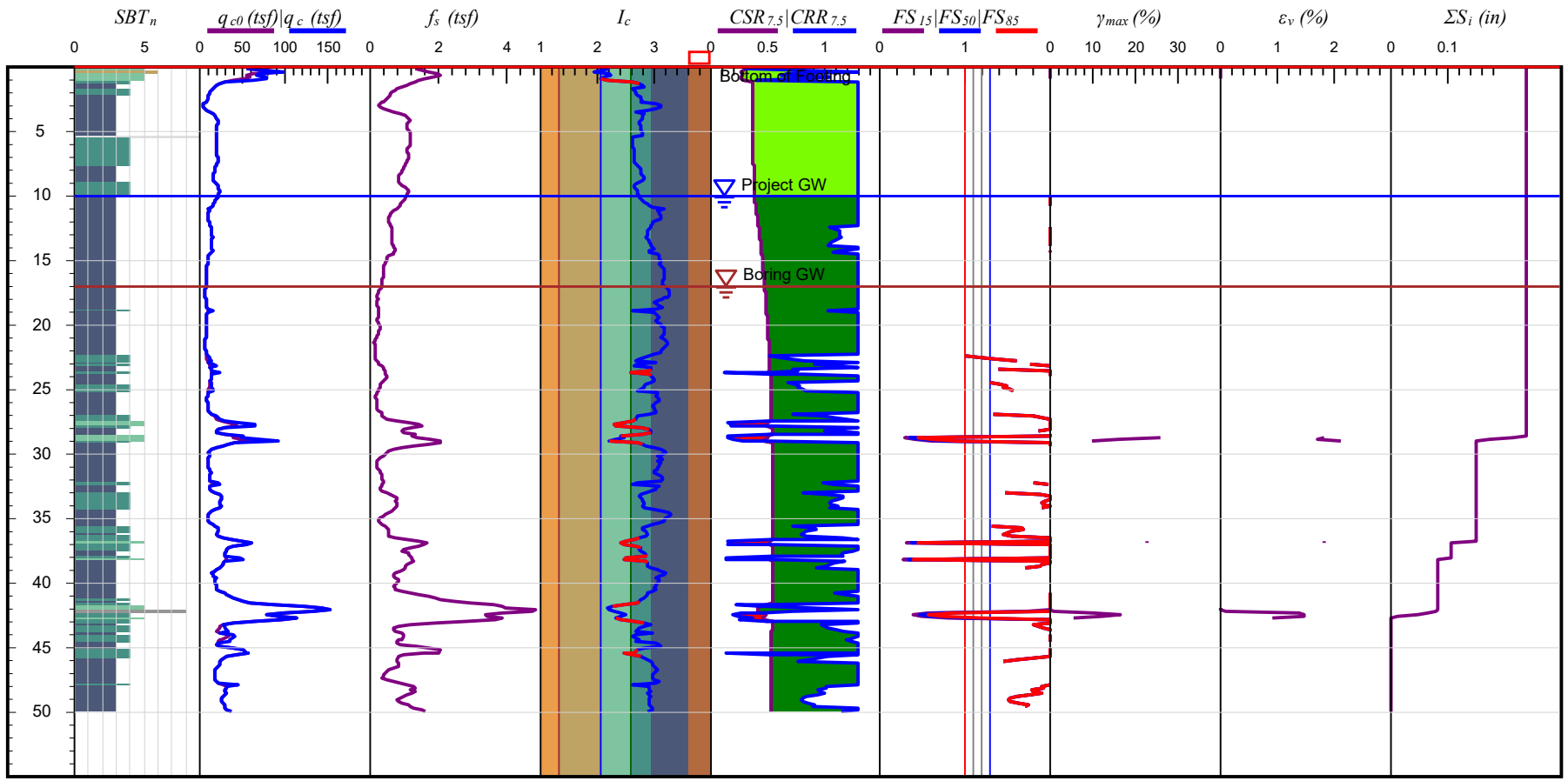

- Sensitive fine grained
- Organic soils - peats
- Clay to silty clay
- Silty clay to clayey silt
- Sandy silt to silty sand
- Silty sand to clean sand
- Dense sand to gravelly sand
- Clayey sand to very stiff sand
- Very stiff fine grained *

* Overconsolidated or cemented

Silt Correction:
$K=(1\text{-}FC)^{0.75}$

Earthquake & Groundwater Information:
Magnitude = 6.51
Max. Acceleration = 0.648 g
Project GW = 10 ft
Maximum Settlement = 0.24 in
Settl. at Bottom of Footing = 0.24 in

Liquefaction: Boulanger & Idriss (2010-16)
Settl.: [dry] Pradel (1998); [sat] Idriss & Boulanger (2008)
Lateral spreading: Idriss & Boulanger (2008)
M correction: [Sand; Clay] Boulanger & Idriss(2004)
σv correction: Idriss & Boulanger (2008)
Stress reduction: Idriss & Boulanger (2008)

GORIAN & ASSOCIATES, INC

Seismic Settlement Potential - CPT Data

Project:	Canoga Park High School Modernization				
Location:	6850 Topanga Canyon Blvd.				
Project No.:	2880-83-3-100	CPT No.:	CPT-18	Figure:	2

X:\2880-0-0-LA Unified Sch Dist-Master File\2880-83 Canoga Park High Sch\2880-83-3 Comprensive Modernization\Seismic Settlement\GeoSuite_2880-83-3-100_CPT-18.csv

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Prepared at 1/14/2022 5:26:41 PM

Z_b (ft)	Z_m (ft)	q_c (tsf)	f_s (tsf)	u_2 (tsf)	q_t (tsf)	R_f	SBT	γ (pcf)	σ_{v0} (tsf)	σ_{v0}' (tsf)	Q_t	Q_{tn}	F_R	SBT_n	I_c	q_{c1N}	K_c	$Q_{tn,cs}$	$(SBT)_{Ic}$	B_q	$(SBT)_{Bq}$	F_C (%)	c	R	V_s (ft/s)	G_0 (tsf)	E' (tsf)	M (tsf)	σ_p' (tsf)	OCR	S_t	S_u (tsf)	S_u/σ_{v0}'	φ (°)	c' (tsf)
0.30	0.17	54.4	1.30	0.01	54.4	81.45	2	152	0.01	0.01	205.7	87.4	2.39	5	2.21	87.5	1.68	150.4	5	0.00	1	19.38	0.40	273.5	660.3	1,030	643	762	0.06	4.5				39.0	0.00
0.50	0.40	98.6	1.69	0.04	98.6	1.82	7	129	0.03	0.03	372.6	158.4	1.72	6	1.93	158.4	1.21	195.3	6	0.00	1	11.16	0.39	273.5	744.1	1,113	817	1,633	0.21	7.1				41.8	0.00
0.60	0.53	68.8	1.95	0.05	68.8	3.17	6	130	0.04	0.04	260.1	110.5	2.83	5	2.20	110.6	1.65	178.2	5	0.00	1	18.93	0.41	273.5	736.2	1,095	799	1,598	0.20	5.4				40.1	0.00
0.70	0.66	66.6	2.05	0.06	66.6	3.69	5	131	0.05	0.05	251.6	106.9	3.08	5	2.23	107.0	1.75	176.1	5	0.00	1	20.18	0.42	273.6	741.1	1,116	810	932	0.24	5.3				39.9	0.00
0.90	0.80	77.9	1.88	0.07	77.9	3.17	6	131	0.06	0.06	294.4	125.1	2.41	5	2.11	125.2	1.46	188.4	5	0.00	1	16.11	0.42	273.5	740.7	1,118	809	1,618	0.33	5.9				40.7	0.01
1.00	0.93	77.9	1.62	0.06	78.0	3.05	6	131	0.06	0.06	294.5	125.1	2.09	5	2.06	125.2	1.38	182.7	5	0.00	1	14.69	0.42	273.6	718.7	1,051	762	1,523	0.38	5.9				40.7	0.01
1.10	1.06	61.9	1.43	0.05	61.9	3.71	5	130	0.07	0.07	233.8	99.4	2.32	5	2.16	99.5	1.57	161.9	5	0.00	1	17.79	0.44	273.6	682.8	942	688	1,375	0.36	5.0				39.6	0.01
1.30	1.20	28.8	1.32	0.05	28.8	4.60	4	124	0.08	0.08	108.4	46.1	4.60	4	2.61	46.2	0.00	46.2	4	0.00	1	35.78	0.49	273.7	616.4	732		401	9.56	15.4	1.5	2.05	3.29	35.9	2.05
1.40	1.34	22.8	1.20	0.05	22.8	5.28	3	123	0.09	0.09	85.8	36.5	5.29	3	2.72	36.6	0.00	36.6	4	0.00	1	41.66	0.50	273.8	589.2	662		318	7.56	12.2	1.3	1.62	2.60	34.8	1.62
1.50	1.46	19.2	1.08	0.05	19.2	5.63	3	121	0.10	0.10	72.3	30.7	5.66	3	2.80	30.9	0.00	30.9	4	0.00	1	45.72	0.52	273.8	566.5	606		268	6.38	10.2	1.3	1.37	2.19	34.0	1.37
1.70	1.59	16.7	0.91	0.05	16.7	5.44	3	120	0.10	0.10	62.9	26.7	5.47	3	2.83	26.9	0.00	26.9	4	0.00	1	47.63	0.53	273.9	539.5	542		233	5.55	8.9	1.3	1.19	1.91	33.3	1.19
1.80	1.72	14.9	0.81	0.05	14.9	5.43	3	119	0.11	0.11	55.9	23.7	5.47	4	2.61	23.9	0.00	23.9	4	0.00	1	35.76	0.54	273.9	442.4	361		207	4.93	7.9	1.3	1.06	1.70	32.7	1.06
1.90	1.84	13.5	0.72	0.04	13.5	5.34	3	118	0.12	0.12	50.5	21.5	5.39	4	2.63	21.6	0.00	21.6	4	0.00	1	36.96	0.54	273.9	427.1	333		187	4.45	7.2	1.3	0.95	1.53	32.2	0.95
2.00	1.98	11.8	0.64	0.03	11.8	5.46	3	116	0.13	0.13	44.2	18.8	5.51	4	2.68	19.0	0.00	19.0	4	0.00	1	39.32	0.55	273.9	411.5	306		164	3.90	6.3	1.3	0.84	1.34	31.6	0.84
2.20	2.12	11.5	0.60	0.03	11.5	5.19	3	116	0.14	0.14	42.9	18.2	5.24	4	2.67	18.4	0.00	18.4	4	0.00	1	38.97	0.56	273.9	403.6	293		159	3.78	6.1	1.4	0.81	1.30	31.5	0.81
2.30	2.25	10.4	0.57	0.03	10.4	5.47	3	115	0.14	0.14	38.7	16.4	5.54	3	2.72	16.7	0.00	16.7	4	0.00	1	41.55	0.57	274.0	395.1	279		143	3.41	5.5	1.3	0.73	1.17	31.0	0.73
2.40	2.37	9.7	0.55	0.03	9.7	5.66	3	115	0.15	0.15	36.0	15.3	5.74	3	2.75	15.6	0.00	15.6	4	0.00	1	43.31	0.57	274.0	389.4	270		133	3.18	5.1	1.2	0.68	1.09	30.6	0.68
2.60	2.51	9.1	0.51	0.03	9.1	5.59	3	114	0.16	0.16	33.8	14.4	5.69	3	2.77	14.6	0.00	14.6	4	0.00	1	44.23	0.58	274.0	381.1	257		125	2.98	4.8	1.2	0.64	1.03	30.3	0.64
2.70	2.66	8.0	0.40	0.03	8.0	5.06	3	112	0.17	0.17	29.6	12.6	5.17	3	2.78	12.8	0.00	12.8	4	0.00	1	44.93	0.59	274.0	359.1	224		98	2.61	4.2	1.4	0.56	0.90	29.7	0.56
2.80	2.78	7.3	0.33	0.03	7.3	4.51	3	110	0.17	0.17	26.9	11.4	4.62	3	2.78	11.7	0.00	11.7	4	0.00	1	44.69	0.60	274.0	341.9	200		82	2.38	3.8	1.5	0.51	0.82	29.2	0.51
3.00	2.90	4.5	0.28	0.02	4.5	6.09	3	108	0.18	0.18	16.4	7.0	6.33	3	3.03	7.3	0.00	7.3	3	0.00	1	60.36	0.63	274.1	312.9	164		30	1.45	2.3	1.1	0.31	0.50	26.9	0.31
3.10	3.04	3.8	0.26	0.02	3.8	6.88	3	107	0.19	0.19	13.6	5.8	7.23	3	3.13	6.1	0.00	6.1	3	0.00	1	67.42	0.64	274.2	303.6	153		21	1.20	1.9	1.0	0.26	0.41	26.0	0.26
3.20	3.16	3.9	0.27	0.02	3.9	6.95	3	107	0.19	0.19	14.0	6.0	7.31	3	3.12	6.3	0.00	6.3	3	0.00	1	67.04	0.64	274.2	306.5	156		22	1.23	2.0	1.0	0.26	0.43	26.1	0.26
3.40	3.29	5.2	0.38	0.01	5.2	7.29	3	110	0.20	0.20	18.8	8.0	7.60	3	3.04	8.3	0.00	8.3	3	0.00	1	61.19	0.62	274.1	336.8	194		40	1.65	2.7	0.9	0.35	0.57	27.5	0.35
3.50	3.42	7.8	0.53	0.01	7.8	6.81	3	114	0.21	0.21	28.6	12.2	6.94	3	2.88	12.5	0.00	12.5	4	0.00	1	50.83	0.60	274.1	376.6	251		92	2.53	4.1	1.0	0.54	0.87	29.5	0.54
3.60	3.55	12.2	0.69	0.02	12.2	5.69	3	117	0.22	0.22	45.4	19.3	5.78	3	2.69	19.6	0.00	19.6	4	0.00	1	39.74	0.57	274.0	418.8	319		168	4.00	6.4	1.2	0.86	1.38	31.7	0.86
3.70	3.68	16.3	0.86	0.02	16.3	5.28	3	119	0.22	0.22	61.0	25.9	5.35	3	2.83	26.3	0.00	26.3	4	0.00	1	47.68	0.55	273.9	531.4	524		226	5.37	8.6	1.3	1.15	1.85	33.1	1.15
3.90	3.81	18.5	1.03	0.02	18.5	5.55	3	121	0.23	0.23	69.0	29.3	5.62	3	2.80	29.7	0.00	29.7	4	0.00	1	46.27	0.55	273.9	556.9	583		256	6.09	9.8	1.3	1.30	2.10	33.7	1.30
4.00	3.95	20.0	1.12	0.02	20.0	5.59	3	122	0.24	0.24	74.9	31.8	5.66	3	2.78	32.2	0.00	32.2	4	0.00	1	44.98	0.54	273.9	571.8	619		277	6.60	10.6	1.3	1.41	2.27	34.1	1.41
4.20	4.09	20.9	1.17	0.04	20.9	5.57	3	122	0.25	0.25	78.2	33.2	5.64	3	2.77	33.6	0.00	33.6	4	0.00	1	44.17	0.54	273.9	578.9	637		289	6.89	11.1	1.3	1.48	2.37	34.3	1.48
4.30	4.23	21.4	1.14	0.06	21.4	5.35	3	122	0.26	0.26	80.0	34.0	5.41	3	2.75	34.4	0.00	34.4	4	0.00	1	43.07	0.54	273.9	578.3	635		296	7.05	11.3	1.3	1.51	2.43	34.4	1.51
4.40	4.36	21.1	1.10	0.07	21.1	5.21	3	122	0.26	0.26	78.8	33.5	5.28	3	2.74	33.9	0.00	33.9	4	0.00	1	42.88	0.54	273.9	573.1	622		292	6.95	11.2	1.3	1.49	2.39	34.4	1.49
4.60	4.48	20.5	1.10	0.07	20.5	5.35	3	122	0.27	0.27	74.5	32.6	5.41	3	2.76	33.0	0.00	33.0	4	0.00	1	43.79	0.55	273.9	570.8	616		284	6.76	10.9	1.3	1.45	2.33	34.2	1.45
4.70	4.62	20.3	1.10	0.07	20.3	5.39	3	122	0.28	0.28	71.5	32.2	5.47	3	2.77	32.7	0.00	32.7	4	0.00	1	44.12	0.55	273.9	570.0	615		281	6.69	10.7	1.3	1.43	2.30	34.2	1.43
4.80	4.74	20.5	1.09	0.07	20.5	5.31	3	122	0.29	0.29	70.3	32.5	5.38	3	2.76	33.0	0.00	33.0	4	0.00	1	43.70	0.55	273.9	569.9	614		284	6.75	10.8	1.3	1.45	2.32	34.2	1.45
4.90	4.86	20.6	1.13	0.08	20.6	5.51	3	122	0.30	0.30	68.7	32.6	5.59	3	2.77	33.1	0.00	33.1	4	0.00	1	44.29	0.55	273.9	574.4	625		284	6.77	10.9	1.3	1.45	2.33	34.2	1.45
5.10	5.00	20.5	1.17	0.07	20.5	5.68	3	122	0.30	0.30	66.6	32.5	5.76	3	2.78	33.0	0.00	33.0	4	0.00	1	44.88	0.55	273.9	577.4	633		283	6.75	10.8	1.2	1.45	2.32	34.2	1.45
5.20	5.14	20.4	1.18	0.07	20.4	5.76	3	122	0.31	0.31	64.4	32.3	5.85	3	2.79	32.8	0.00	32.8	4	0.00	1	45.22	0.55	273.9	578.0	635		282	6.71	10.8	1.2	1.44	2.31	34.2	1.44
5.30	5.27	20.4	1.18	0.07	20.4	5.78	3	122	0.32	0.32	62.8	32.3	5.87	3	2.79	32.8	0.00	32.8	4	0.00	1	45.28	0.55	273.9	578.3	635		282	6.71	10.8	1.2	1.44	2.31	34.2	1.44
5.50	5.40	20.3	1.18	0.07	20.3	5.78	3	122	0.33	0.33	61.0	32.2	5.87	9	2.61	32.7	0.00	32.7	4	0.00	1	35.68	0.55	273.9	514.3	502		280	6.67	10.7	1.2	1.43	2.30	34.2	1.43
5.60	5.53	20.2	1.16	0.07	20.2	5.75	3	122	0.34	0.34	59.1	31.9	5.85	4	2.61	32.4	0.00	32.4	4	0.00	1	36.04	0.55	273.9	514.8	503		278	6.62	10.6	1.2	1.42	2.28	34.1	1.42
5.70	5.66	20.0	1.15	0.06	20.1	5.76	3	122	0.34	0.34	57.3	31.7	5.86	4	2.62	32.2	0.00	32.2	4	0.00	1	36.51	0.56	273.9	515.8	505		276	6.57	10.6	1.2	1.41	2.26	34.1	1.41
5.80	5.79	20.0	1.16	0.07	20.1	5.78	3	122	0.35	0.35	55.9	31.6	5.88	4	2.63	32.2	0.00	32.2	4	0.00	1	36.92	0.56	273.9	518.3	510		276	6.57	10.5	1.2	1.41	2.26	34.1	1.41
6.00	5.93	20.4	1.16	0.07	20.4	5.70	3	122	0.36	0.36	55.6	32.2	5.80	4	2.63	32.8	0.00	32.8	4	0.00	1	36.79	0.56	273.9	521.9	517		281	6.68	10.7	1.2	1.43	2.30	34.2	1.43
6.10	6.06	20.6	1.16	0.07	20.6	5.64	3	122	0.37	0.37	54.9	32.5	5.74	4	2.63	33.1	0.00	33.1	4	0.00	1	36.78	0.56	273.9	524.3	522		283	6.74	10.8	1.2	1.44	2.32	34.2	1.44
6.30	6.18	20.5	1.13	0.07	20.5	5.49	3	122	0.38	0.38	53.6	32.4	5.59	4	2.63	33.0	0.00	33.0	4	0.00	1	36.68	0.56	273.9	522.9	518		282	6.72	10.8	1.3	1.44	2.31	34.2	1.44
6.40	6.33	20.1	1.09	0.07	20.1	5.42	3	122	0.39	0.39	51.2	31.7	5.52	4	2.64	32.3	0.00	32.3	4	0.00	1	37.15	0.56	273.9	520.1	511		276	6.57	10.6	1.3	1.41	2.26	34.1	1.41
6.50	6.46	20.0	1.08	0.08	20.1	5.40	3	122	0.39	0.39	50.0	31.6	5.51	4	2.64	32.2	0.00	32.2	4	0.00	1	37.45	0.56	274.0	521.3	513		275	6.55	10.5	1.3	1.40	2.26	34.1	1.40
6.60	6.58	20.1	1.09	0.09	20.2	5.43	3	122	0.40	0.40	49.4	31.7	5.54	4	2.65	32.4	0.00	32.4	4	0.00	1	37.74	0.56	274.0	524.5	520		277	6.58	10.6	1.3	1.41	2.27	34.1	1.41
6.80	6.72	20.3	1.11	0.09	20.3	5.47	3	122	0.41	0.41	48.8	32.0	5.58	4	2.65	32.7	0.00	32.7	4	0.00	1	38.05	0.56	274.0	528.9	530		279	6.65	10.7	1.3	1.42	2.29	34.2	1.42
6.90	6.84	20.6	1.14	0.09	20.6	5.53	3	122	0.42	0.42	48.5	32.4	5.64	4	2.66	33.1	0.00	33.1	4	0.00	1	38.29	0.56	274.0	533.7	540		283	6.73	10.8	1.3	1.44	2.32	34.2	1.44
7.00	6.97	21.0	1.13	0.10	21.0	5.40	3	122	0.42	0.42	48.6	33.1	5.50	4	2.65	33.8	0.00	33.8	4	0.00	1	37.87	0.56	274.0	536.5	546		289	6.87	11.0	1.3	1.47	2.36	34.3	1.47
7.20	7.11	21.3	1.11	0.10	21.3	5.20	3	122	0.43	0.43	48.3	33.6	5.31	4	2.64	34.2	0.00	34.2	4	0.00	1	37.37	0.56	274.0	536.9	546		293	6.96	11.2	1.3	1.49	2.40	34.4	1.49
7.30	7.23	21.0	1.08	0.10	21.0	5.15	3	122	0.44	0.44	46.8	33.1	5.25	4	2.65	33.8	0.00	33.8	4	0.00	1	37.67	0.56	274.0	535.0	541		288	6.86	11.0	1.4	1.47	2.36	34.3	1.47
7.40	7.35	20.6	1.05	0.10	20.6	5.11	3	121	0.45	0.45	45.2	32.4	5.22	4	2.66	33.1	0.00	33.1	4	0.00	1	38.11	0.56	274.0	532.7	536		283	6.73	10.8	1.4	1.44	2.32	34.2	1.44
7.60	7.48	19.9	1.05	0.10	19.9	5.26	3	121	0.46	0.46	42.8	31.3	5.38	4	2.68	32.0	0.00	32.0	4	-0.01	1	39.44	0.57	274.0	531.5	532		272	6.49	10.4	1.3	1.39	2.23	34.0	1.39
7.70	7.62	19.2	1.03	0.10	19.2	5.37	3	121	0.46	0.46	40.4	30.1	5.49	4	2.70	30.8	0.00	30.8	4	-0.01	1	40.70	0.57	274.0	529.2	527		262	6.24	10.0	1.3	1.34	2.15	33.9	1.34
7.80	7.76	18.4	1.00	0.11	18.4	5.47	3	121	0.47	0.47	38.0	28.8	5.60	3	2.73	29.5	0.00	29.5	4	-0.01	1	42.01	0.57	274.0	526.1	520		251	5.98	9.6	1.3	1.28	2.06	33.7	1.28
8.00	7.90	17.6	0.99	0.12	17.6	5.61	3	121	0.48	0.48	35.6	27.5	5.76	3	2.76	28.2	0.00	28.2	4	-0.01	1	43.59	0.58	274.0	523.0	512		239	5.70	9.2	1.2	1.22	1.96	33.4	1.22
8.10	8.02	17.3	0.95	0.12	17.3	5.51	3	120	0.49	0.49	34.6	27.1	5.67	3	2.76	27.8	0.00	27.8	4	-0.01	1	43.79	0.58	274.0	520.5	506		236	5.62	9.0	1.3	1.20	1.93	33.4	1.20
8.20	8.15	17.0	0.91	0.12	17.0	5.35	3	120	0.50	0.50	33.3	26.5	5.51	3	2.76	27.3	0.00	27.3	4	-0.01	1	43.92	0.58	274.0	515.8	496		231	5.50	8.8	1.3	1.18	1.89	33.3	1.18
8.30	8.28	16.6	0.87	0.13	16.7	5.24	3	119	0.50	0.50	32.1	26.0	5.40	3	2.77	26.7	0.00	26.7	4	-0.01	1	44.22	0.58	274.0	512.0	487		226	5.38	8.7	1.3	1.15	1.85	33.2	1.15
8.50	8.41	15.9	0.85	0.13	15.9	5.35	3	119	0.51	0.51	30.2	24.8	5.52	3	2.79	25.6	0.00	25.6	4	-0.01	1	45.68	0.59	274.0	508.4	479		216	5.14	8.3	1.3	1.10	1.77	32.9	1.10
8.60	8.54	15.4	0.83	0.13	15.4	5.38	3	119	0.52	0.52	28.7	23.9	5.56	3	2.81	24.7	0.00	24.7	4	-0.01	1	46.74	0.59	274.0	505.2	472		208	4.96	8.0	1.3	1.06	1.71	32.8	1.06
8.80	8.68	15.6	0.82	0.13	15.6	5.30	3	119	0.53	0.53	28.6	24.2	5.47	3	2.81	24.9	0.00	24.9	4	-0.01	1	46.53	0.59	274.0	507.2	475		211	5.02	8.1	1.3	1.08	1.73	32.8	1.08
8.90	8.81	16.3	0.83	0.14	16.4	5.10	3	119	0.53	0.53	29.6	25.4	5.26	3	2.79	25.8	0.00	25.8	4	-0.01	1	45.20	0.59	274.0	512.5	486		222	5.28	8.5	1.3	1.13	1.82	33.1	1.13
9.00	8.93	17.8	0.86	0.15	17.8	4.81	3	120	0.54	0.54	31.9	27.8	4.95	4	2.74	27.6	0.00	27.6	4	-0.01	1	42.86	0.58	274.0	521.6	505		242	5.76	9.3	1.4	1.23	1.98	33.5	1.23
9.10	9.07	20.2	0.89	0.16	20.3	4.40	3	120	0.55	0.55	35.8	31.7	4.52	4	2.68	30.7	0.00	30.7	4	-0.01	1	39.43	0.57	274.0	534.9	534		276	6.57	10.6	1.6	1.41	2.26	34.1	1.41
9.30	9.20	22.0	0.93	0.17	22.1	4.21	4	121	0.56	0.56	38.5	33.9	4.31	4	2.64	32.8	0.00	32.8	4	-0.01	1	37.54	0.57	274.0	545.8	559		301	7.17	11.3	1.6	1.54	2.42	34.4	1.54

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Z_b (ft)	Z_m (ft)	q_c (tsf)	f_s (tsf)	u_2 (tsf)	q_t (tsf)	R_f	SBT	γ (pcf)	σ_{v0} (tsf)	σ_{v0}' (tsf)	Q_t	Q_{tn}	F_R	SBT_n	I_c	q_{c1N}	K_c	$Q_{tn,cs}$	$(SBT)_{Ic}$	B_q	$(SBT)_{Bq}$	F_C (%)	c	R	V_s (ft/s)	G_0 (tsf)	E' (tsf)	M (tsf)	σ_p' (tsf)	OCR	S_t	S_u (tsf)	S_u/σ_{v0}'	φ (°)	c' (tsf)
9.40	9.32	22.5	1.01	0.17	22.5	4.47	4	121	0.57	0.57	38.9	34.4	4.58	4	2.66	33.2	0.00	33.2	4	-0.01	1	38.34	0.57	274.0	557.4	586		308	7.33	11.5	1.6	1.57	2.46	34.5	1.57
9.50	9.46	22.5	1.07	0.17	22.5	4.76	3	122	0.57	0.57	38.2	34.1	4.88	4	2.68	32.8	0.00	32.8	4	-0.01	1	39.62	0.57	274.0	565.4	605		307	7.31	11.4	1.5	1.57	2.43	34.5	1.57
9.70	9.59	22.6	1.10	0.17	22.6	4.88	3	122	0.58	0.58	37.9	34.0	5.00	4	2.69	32.7	0.00	32.7	4	-0.01	1	40.15	0.57	274.0	570.8	618		309	7.36	11.3	1.4	1.58	2.43	34.4	1.58
9.80	9.72	22.7	1.12	0.17	22.7	4.92	3	122	0.59	0.59	37.6	33.8	5.04	4	2.70	32.6	0.00	32.6	4	-0.01	1	40.44	0.57	274.0	574.0	625		310	7.39	11.3	1.4	1.58	2.41	34.4	1.58
9.90	9.87	22.2	1.10	0.18	22.2	4.97	3	122	0.60	0.60	36.1	32.6	5.10	4	2.72	31.6	0.00	31.6	4	-0.01	1	41.28	0.57	274.0	572.6	622		303	7.21	10.9	1.4	1.54	2.33	34.2	1.54
10.00	9.97	21.6	1.07	0.18	21.6	4.95	3	122	0.61	0.61	34.7	31.5	5.08	4	2.73	30.5	0.00	30.5	4	-0.01	1	41.89	0.57	274.0	568.2	610		294	6.99	10.5	1.4	1.50	2.25	34.1	1.50
10.10	10.06	21.0	1.05	0.18	21.0	5.02	3	121	0.61	0.61	33.5	30.5	5.16	3	2.74	29.7	0.00	29.7	4	-0.01	1	42.71	0.58	274.0	565.5	604		285	6.80	10.2	1.4	1.46	2.18	33.9	1.46
10.30	10.21	19.9	1.03	0.18	19.9	5.17	3	121	0.62	0.61	31.4	28.8	5.32	3	2.77	28.1	0.00	28.1	4	-0.01	1	44.36	0.58	274.0	560.0	590		270	6.42	9.6	1.3	1.38	2.06	33.7	1.38
10.40	10.33	18.5	0.99	0.18	18.6	5.32	3	121	0.63	0.62	29.1	26.8	5.50	3	2.80	26.2	0.00	26.2	4	-0.01	1	46.27	0.58	274.0	552.0	571		251	5.98	8.9	1.3	1.28	1.92	33.3	1.28
10.50	10.45	17.3	0.95	0.18	17.4	5.46	3	120	0.63	0.62	27.0	25.0	5.66	3	2.84	24.6	0.00	24.6	4	-0.01	1	48.18	0.59	274.0	543.9	553		234	5.57	8.3	1.3	1.19	1.79	33.0	1.19
10.60	10.58	16.2	0.91	0.17	16.2	5.59	3	120	0.64	0.62	25.0	23.3	5.81	3	2.87	23.0	0.00	23.0	4	-0.01	1	50.08	0.59	274.0	535.8	534		218	5.20	7.8	1.2	1.11	1.67	32.6	1.11
10.80	10.70	15.0	0.87	0.17	15.0	5.80	3	119	0.65	0.63	22.9	21.5	6.05	3	2.91	21.3	0.00	21.3	4	-0.01	1	52.52	0.60	274.1	527.5	515		201	4.79	7.2	1.2	1.03	1.54	32.3	1.03
10.90	10.85	13.6	0.83	0.17	13.6	6.09	3	119	0.66	0.63	20.6	19.5	6.38	3	2.96	19.3	0.00	19.3	3	-0.01	1	55.73	0.61	274.1	517.7	494		182	4.33	6.5	1.1	0.93	1.39	31.8	0.93
11.00	10.98	9.4	0.77	0.17	9.5	9.00	3	118	0.67	0.64	13.9	13.6	8.79	3	3.18	13.3	0.00	13.3	3	-0.02	1	71.36	0.63	274.2	489.9	440		120	2.93	4.5	0.8	0.63	0.97	30.1	0.63
11.20	11.10	11.1	0.71	0.15	11.2	6.37	3	117	0.67	0.64	16.4	15.8	6.76	3	3.05	15.6	0.00	15.6	3	-0.01	1	61.71	0.62	274.1	492.2	440		147	3.50	5.3	1.0	0.75	1.13	30.8	0.75
11.30	11.23	10.2	0.65	0.15	10.2	6.37	3	116	0.68	0.64	14.8	14.3	6.81	3	3.08	14.2	0.00	14.2	3	-0.01	1	64.20	0.63	274.1	479.2	414		133	3.17	4.8	1.0	0.68	1.02	30.3	0.68
11.40	11.37	9.6	0.61	0.15	9.7	6.32	3	115	0.69	0.65	13.9	13.5	6.78	3	3.10	13.4	0.00	13.4	3	-0.01	1	65.65	0.63	274.2	471.2	398		121	2.99	4.5	1.0	0.64	0.96	30.0	0.64
11.60	11.51	9.2	0.58	0.15	9.3	6.25	3	115	0.70	0.65	13.2	12.8	6.74	3	3.12	12.8	0.00	12.8	3	-0.01	1	66.73	0.64	274.2	465.1	386		110	2.86	4.3	1.1	0.61	0.92	29.8	0.61
11.70	11.64	9.0	0.56	0.15	9.0	6.26	3	115	0.70	0.65	12.7	12.4	6.77	3	3.13	12.3	0.00	12.3	3	-0.01	1	67.82	0.64	274.2	461.1	379		102	2.76	4.1	1.0	0.59	0.88	29.6	0.59
11.80	11.77	9.1	0.55	0.15	9.2	6.03	3	115	0.71	0.66	12.9	12.5	6.52	3	3.12	12.6	0.00	12.6	3	-0.01	1	66.60	0.64	274.2	461.4	379		106	2.82	4.2	1.1	0.60	0.90	29.7	0.60
12.00	11.90	10.2	0.54	0.14	10.2	5.32	3	115	0.72	0.66	14.4	13.9	5.70	3	3.04	14.0	0.00	14.0	3	-0.01	1	61.23	0.63	274.1	466.7	388		132	3.17	4.6	1.2	0.68	0.99	30.2	0.68
12.10	12.03	11.4	0.56	0.15	11.5	4.88	3	115	0.73	0.66	16.2	15.5	5.20	3	2.98	15.6	0.00	15.6	3	-0.01	1	56.89	0.62	274.1	476.0	406		150	3.58	5.2	1.4	0.77	1.10	30.7	0.77
12.20	12.15	12.0	0.58	0.17	12.0	4.86	3	116	0.73	0.67	16.9	16.1	5.16	3	2.96	16.2	0.00	16.2	3	-0.01	1	55.83	0.62	274.1	482.5	418		158	3.75	5.4	1.4	0.80	1.15	30.9	0.80
12.30	12.28	12.4	0.61	0.16	12.4	4.90	3	116	0.74	0.67	17.4	16.6	5.20	3	2.95	16.7	0.00	16.7	3	-0.01	1	55.38	0.62	274.1	488.5	430		163	3.88	5.5	1.4	0.83	1.18	31.0	0.83
12.50	12.41	13.0	0.64	0.16	13.0	4.95	3	117	0.75	0.67	18.2	17.3	5.24	3	2.94	17.5	0.00	17.5	4	-0.01	1	54.51	0.61	274.1	497.1	448		172	4.09	5.8	1.4	0.88	1.24	31.2	0.88
12.60	12.54	13.7	0.66	0.16	13.7	4.81	3	117	0.76	0.68	19.1	18.1	5.08	3	2.92	18.3	0.00	18.3	4	-0.01	1	52.95	0.61	274.1	502.8	459		181	4.31	6.0	1.4	0.92	1.30	31.4	0.92
12.70	12.67	14.3	0.65	0.17	14.3	4.59	3	117	0.76	0.68	19.9	18.8	4.84	3	2.89	19.0	0.00	19.0	4	-0.01	1	51.31	0.61	274.1	505.3	464		189	4.51	6.3	1.5	0.97	1.34	31.6	0.97
12.90	12.81	14.3	0.65	0.17	14.3	4.56	3	117	0.77	0.68	19.8	18.8	4.81	3	2.89	19.0	0.00	19.0	4	-0.01	1	51.25	0.61	274.1	505.8	465		190	4.52	6.3	1.5	0.97	1.34	31.6	0.97
13.00	12.95	14.3	0.64	0.18	14.3	4.49	3	117	0.78	0.69	19.7	18.7	4.73	3	2.89	18.9	0.00	18.9	4	-0.01	1	51.08	0.61	274.1	504.8	463		190	4.52	6.2	1.5	0.97	1.33	31.6	0.97
13.10	13.08	14.5	0.63	0.18	14.5	4.38	3	117	0.79	0.69	19.9	18.8	4.62	3	2.88	19.1	0.00	19.1	4	-0.01	1	50.48	0.61	274.1	505.2	463		192	4.58	6.3	1.5	0.98	1.34	31.6	0.98
13.30	13.21	14.8	0.64	0.19	14.8	4.30	3	117	0.80	0.69	20.2	19.1	4.53	3	2.86	19.4	0.00	19.4	4	-0.01	1	49.83	0.61	274.1	507.0	467		196	4.68	6.4	1.6	1.00	1.36	31.7	1.00
13.40	13.34	14.4	0.63	0.19	14.4	4.39	3	117	0.80	0.70	19.5	18.5	4.64	3	2.88	18.8	0.00	18.8	4	-0.01	1	50.92	0.61	274.1	505.5	463		191	4.54	6.2	1.5	0.97	1.32	31.5	0.97
13.50	13.47	14.1	0.65	0.19	14.1	4.63	3	117	0.81	0.70	18.9	18.0	4.90	3	2.91	18.3	0.00	18.3	4	-0.01	1	52.53	0.61	274.1	507.2	467		186	4.43	6.0	1.4	0.95	1.29	31.4	0.95
13.70	13.59	13.8	0.66	0.19	13.8	4.76	3	117	0.82	0.71	18.5	17.6	5.05	3	2.92	17.9	0.00	17.9	4	-0.01	1	53.55	0.61	274.1	507.5	468		182	4.34	5.9	1.4	0.93	1.26	31.3	0.93
13.80	13.74	13.7	0.66	0.19	13.8	4.80	3	117	0.83	0.71	18.2	17.4	5.10	3	2.93	17.7	0.00	17.7	4	-0.01	1	54.02	0.61	274.1	507.9	469		181	4.31	5.8	1.4	0.92	1.24	31.3	0.92
13.90	13.86	13.7	0.66	0.19	13.7	4.86	3	117	0.83	0.71	18.1	17.3	5.17	3	2.94	17.6	0.00	17.6	4	-0.01	1	54.45	0.61	274.1	508.9	471		180	4.29	5.8	1.4	0.92	1.23	31.2	0.92
14.10	13.98	13.0	0.66	0.19	13.1	5.10	3	117	0.84	0.72	17.1	16.4	5.43	3	2.97	16.7	0.00	16.7	3	-0.01	1	56.56	0.62	274.1	506.4	466		171	4.08	5.5	1.3	0.87	1.17	31.0	0.87
14.20	14.12	13.5	0.76	0.19	13.5	5.62	3	118	0.85	0.72	17.6	17.0	5.97	3	2.99	17.2	0.00	17.2	3	0.00	1	57.75	0.61	274.1	521.1	498		177	4.22	5.7	1.2	0.90	1.21	31.1	0.90
14.30	14.26	15.2	0.73	0.19	15.3	4.78	3	118	0.86	0.72	19.9	19.0	5.05	3	2.90	19.4	0.00	19.4	4	0.00	1	52.02	0.61	274.1	525.5	506		202	4.80	6.3	1.4	1.03	1.36	31.7	1.03
14.50	14.40	14.5	0.69	0.19	14.5	4.79	3	117	0.86	0.73	18.7	17.9	5.04	3	2.92	18.3	0.00	18.3	4	0.00	1	53.26	0.61	274.1	517.4	488		191	4.54	6.0	1.4	0.97	1.28	31.4	0.97
14.60	14.52	11.5	0.67	0.18	11.6	5.83	3	117	0.87	0.73	14.6	14.2	6.28	3	3.06	14.6	0.00	14.6	3	0.00	1	62.86	0.63	274.1	501.9	457		150	3.56	4.7	1.1	0.76	1.02	30.3	0.76
14.70	14.64	10.3	0.56	0.18	10.3	5.48	3	115	0.88	0.73	12.8	12.5	5.97	3	3.09	12.9	0.00	12.9	3	0.00	1	64.93	0.64	274.2	479.8	411		118	3.14	4.2	1.2	0.67	0.90	29.7	0.67
14.90	14.79	9.7	0.50	0.18	9.8	5.12	3	114	0.89	0.74	12.0	11.8	5.62	3	3.10	12.2	0.00	12.2	3	0.00	1	65.24	0.64	274.2	467.1	386		104	2.96	3.9	1.3	0.63	0.84	29.4	0.63
15.00	14.91	9.6	0.48	0.19	9.7	5.03	3	114	0.89	0.74	11.8	11.6	5.53	3	3.10	12.0	0.00	12.0	3	0.00	1	65.33	0.64	274.2	464.6	381		101	2.92	3.9	1.3	0.63	0.83	29.3	0.63
15.10	15.04	9.5	0.48	0.19	9.6	5.02	3	114	0.90	0.74	11.6	11.4	5.53	3	3.10	11.9	0.00	11.9	3	0.00	1	65.72	0.64	274.2	463.5	379		99	2.89	3.8	1.3	0.62	0.81	29.2	0.62
15.30	15.18	9.3	0.46	0.19	9.4	4.96	3	113	0.91	0.75	11.3	11.1	5.48	3	3.11	11.6	0.00	11.6	3	0.00	1	66.24	0.64	274.2	460.1	373		94	2.82	3.7	1.3	0.60	0.79	29.1	0.60
15.40	15.30	9.3	0.44	0.19	9.3	4.75	3	113	0.92	0.75	11.2	11.0	5.24	3	3.10	11.5	0.00	11.5	3	0.00	1	65.64	0.65	274.2	456.2	365		92	2.80	3.7	1.4	0.60	0.78	29.0	0.60
15.50	15.43	8.8	0.41	0.19	8.8	4.67	3	112	0.92	0.75	10.5	10.3	5.20	3	3.12	10.8	0.00	10.8	3	0.00	1	67.06	0.65	274.2	448.1	350		81	2.64	3.4	1.4	0.57	0.74	28.7	0.57
15.60	15.56	8.3	0.40	0.19	8.3	4.84	3	112	0.93	0.76	9.7	9.6	5.43	3	3.16	10.2	0.00	10.2	3	0.00	1	69.87	0.65	274.2	442.9	341		71	2.46	3.2	1.3	0.53	0.68	28.4	0.53
15.80	15.69	7.9	0.39	0.19	7.9	4.89	3	111	0.94	0.76	9.2	9.1	5.52	3	3.18	9.6	0.00	9.6	3	0.00	1	71.76	0.66	274.2	437.6	332		63	2.32	3.0	1.3	0.50	0.65	28.1	0.50
15.90	15.83	8.0	0.38	0.19	8.0	4.79	3	111	0.95	0.76	9.2	9.1	5.41	3	3.18	9.7	0.00	9.7	3	0.00	1	71.10	0.66	274.2	438.1	332		65	2.36	3.0	1.3	0.50	0.65	28.2	0.50
16.00	15.96	8.0	0.39	0.19	8.0	4.84	3	112	0.95	0.77	9.2	9.1	5.48	3	3.18	9.7	0.00	9.7	3	0.00	1	71.50	0.66	274.2	439.3	335		64	2.35	3.0	1.3	0.50	0.65	28.1	0.50
16.20	16.09	8.1	0.38	0.19	8.2	4.67	3	111	0.96	0.77	9.3	9.2	5.27	3	3.17	9.8	0.00	9.8	3	0.00	1	70.33	0.66	274.2	439.3	334		66	2.40	3.1	1.3	0.51	0.66	28.2	0.51
16.30	16.23	8.0	0.38	0.19	8.1	4.69	3	111	0.97	0.77	9.2	9.1	5.31	3	3.17	9.7	0.00	9.7	3	0.00	1	70.98	0.66	274.2	438.5	333		64	2.36	3.0	1.3	0.51	0.65	28.1	0.51
16.40	16.37	8.0	0.37	0.19	8.0	4.68	3	111	0.98	0.78	9.1	8.9	5.30	3	3.18	9.6	0.00	9.6	3	0.00	1	71.27	0.66	274.2	437.8	331		63	2.35	3.0	1.3	0.50	0.64	28.1	0.50
16.50	16.49	8.0	0.36	0.19	8.0	4.49	3	111	0.98	0.78	9.0	8.9	5.10	3	3.17	9.6	0.00	9.6	3	0.00	1	70.60	0.66	274.2	435.1	327		63	2.34	3.0	1.4	0.50	0.64	28.0	0.50
16.70	16.61	8.0	0.34	0.19	8.0	4.22	3	111	0.99	0.78	9.0	8.8	4.80	3	3.15	9.5	0.00	9.5	3	0.00	1	69.51	0.66	274.2	431.0	319		62	2.34	2.9	1.5	0.50	0.63	28.0	0.50
16.80	16.76	8.0	0.33	0.19	8.0	4.19	3	110	1.00	0.79	8.9	8.8	4.77	3	3.15	9.5	0.00	9.5	3	0.00	1	69.54	0.66	274.2	430.9	319		62	2.34	2.9	1.5	0.50	0.63	28.0	0.50
16.90	16.89	8.0	0.33	0.19	8.0	4.18	3	110	1.00	0.79	8.9	8.8	4.76	3	3.16	9.5	0.00	9.5	3	0.00	1	69.62	0.66	274.2	430.9	319		61	2.34	2.9	1.5	0.50	0.63	28.0	0.50
17.10	17.00	8.1	0.33	0.19	8.2	4.09	3	110	1.01	0.79	9.0	8.9	4.64	3	3.14	9.6	0.00	9.6	3	0.00	1	68.72	0.66	274.2	431.7	320		63	2.38	3.0	1.5	0.51	0.63	28.0	0.51
17.20	17.14	7.2	0.32	0.20	7.2	4.46	3	110	1.02	0.80	7.8	7.7	5.17	3	3.22	8.4	0.00	8.4	3	0.00	1	74.93	0.67	274.3	422.3	304		48	2.06	2.6	1.4	0.44	0.55	27.4	0.44
17.30	17.27	6.7	0.29	0.20	6.7	4.35	3	109	1.03	0.80	7.2	7.1	5.10	3	3.25	7.9	0.00	7.9	3	0.00	1	76.85	0.67	274.3	413.0	289		41	1.91	2.4	1.4	0.41	0.51	27.0	0.41
17.50	17.40	6.4	0.25	0.20	6.4	3.94	3	108	1.03	0.80	6.7	6.7	4.68	3	3.25	7.5	0.00	7.5	3	0.01	1	76.96	0.68	274.3	400.4	268		36	1.79	2.2	1.5	0.38	0.48	26.7	0.38
17.60	17.53	6.0	0.22	0.20	6.1	3.68	3	107	1.04	0.80	6.2	6.2	4.41	3	3.26	7.1	0.00	7.1	3	0.01	1	77.81	0.68	274.3	389.9	252		31	1.67	2.1	1.6	0.36	0.44	26.3	0.36
17.80	17.68	5.9	0.21	0.20	6.0	3.50	3	106	1.05	0.81	6.1	6.1	4.22	3	3.26	6.9	0.00	6.9	3	0.01	1	77.66	0.69	274.3	385.2	245		30	1.64	2.0	1.7	0.35	0.43	26.2	0.35
17.90	17.80	6.0	0.21	0.20	6.1	3.41	3	106	1.05	0.81	6.2	6.2	4.11	3	3.25	7.0	0.00	7.0	3	0.01	1	76.67	0.68	274.3	385.8	246		31	1.67	2.1	1.7	0.36	0.44	26.3	0.36
18.00	17.92	6.6	0.21	0.21	6.7	3.18	3	107	1.06	0.81	6.9	6.8	3.77	3	3.19	7.7	0.00	7.7	3	0.01	1	71.99	0.68	274.3	392.5	255		38	1.86	2.3	1.9	0.40	0.49	26.8	0.40
18.10	18.05	7.1	0.23	0.21	7.1	3.21	3	107	1.07	0.82	7.4	7.3	3.76	3	3.16	8.2	0.00	8.2	3	0.01	1	70.03	0.67	274.3	400.9	268		44	2.01	2.4	1.9	0.43	0.52	27.1	0.43
18.20	18.18	7.8	0.21	0.21	7.9	2.63	4	107	1.07	0.82	8.3	8.1	3.02	3	3.07	9.0	0.00	9.0	3	0.01	1	62.99	0.66	274.2	400.7	266		55	2.27	2.7	2.4	0.49	0.58	27.6	0.49

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Z_b (ft)	Z_m (ft)	q_c (tsf)	f_s (tsf)	u_2 (tsf)	q_t (tsf)	R_f	SBT	γ (pcf)	σ_{v0} (tsf)	σ_{v0}' (tsf)	Q_t	Q_{tn}	F_R	SBT_n	I_c	q_{c1N}	K_c	$Q_{tn,cs}$	$(SBT)_{Ic}$	B_q	$(SBT)_{Bq}$	F_C (%)	c	R	V_s (ft/s)	G_0 (tsf)	E' (tsf)	M (tsf)	σ_p' (tsf)	OCR	S_t	S_u (tsf)	S_u/σ_{v0}'	φ (°)	c' (tsf)
18.40	18.31	8.4	0.19	0.21	8.5	2.27	4	106	1.08	0.82	9.0	8.8	2.59	3	3.00	9.7	0.00	9.7	3	0.01	1	58.56	0.66	274.2	400.6	265		65	2.46	2.9	2.7	0.53	0.63	28.0	0.53
18.50	18.46	7.6	0.21	0.21	7.6	2.79	4	107	1.09	0.83	7.9	7.8	3.23	3	3.10	8.7	0.00	8.7	3	0.01	1	65.40	0.67	274.2	401.3	267		51	2.18	2.6	2.2	0.47	0.56	27.4	0.47
18.60	18.59	7.8	0.26	0.22	7.8	3.35	3	109	1.10	0.83	8.1	8.0	3.89	3	3.14	8.9	0.00	8.9	3	0.01	1	68.06	0.67	274.2	416.7	293		54	2.24	2.7	1.8	0.48	0.57	27.5	0.48
18.80	18.72	9.1	0.26	0.22	9.2	2.85	4	109	1.10	0.83	9.7	9.5	3.20	3	3.02	10.4	0.00	10.4	3	0.01	1	60.05	0.65	274.2	425.3	306		77	2.69	3.2	2.2	0.58	0.68	28.4	0.58
18.90	18.86	16.1	0.22	0.22	16.1	2.18	5	113	1.11	0.83	18.0	17.1	1.47	4	2.61	18.3	0.00	18.3	4	0.00	1	36.09	0.61	274.1	447.4	350		210	5.00	5.7	4.8	1.07	1.22	31.2	1.07
19.00	18.99	9.3	0.23	0.22	9.3	2.49	4	108	1.12	0.84	9.8	9.6	2.81	3	2.99	10.5	0.00	10.5	3	0.01	1	57.70	0.65	274.2	419.4	295		79	2.74	3.2	2.5	0.59	0.68	28.4	0.59
19.20	19.11	8.8	0.24	0.22	8.8	2.68	4	108	1.12	0.84	9.1	9.0	3.06	3	3.03	9.9	0.00	9.9	3	0.01	1	60.84	0.66	274.2	417.5	293		69	2.56	3.0	2.3	0.55	0.64	28.1	0.55
19.30	19.25	8.5	0.23	0.22	8.6	2.70	4	108	1.13	0.84	8.8	8.6	3.10	3	3.05	9.6	0.00	9.6	3	0.01	1	61.99	0.66	274.2	414.9	288		64	2.47	2.9	2.3	0.53	0.62	27.9	0.53
19.40	19.37	8.3	0.23	0.23	8.3	2.80	4	108	1.14	0.85	8.5	8.3	3.23	3	3.07	9.3	0.00	9.3	3	0.01	1	63.62	0.66	274.2	413.9	287		60	2.39	2.8	2.2	0.51	0.60	27.7	0.51
19.60	19.50	8.3	0.22	0.23	8.4	2.64	4	107	1.15	0.85	8.5	8.4	3.04	3	3.06	9.3	0.00	9.3	3	0.01	1	62.54	0.66	274.2	411.1	282		60	2.40	2.8	2.3	0.52	0.60	27.7	0.52
19.70	19.64	8.7	0.21	0.23	8.7	2.38	4	107	1.15	0.85	8.9	8.7	2.73	3	3.02	9.7	0.00	9.7	3	0.01	1	59.55	0.66	274.2	410.5	280		66	2.53	2.9	2.6	0.54	0.62	28.0	0.54
19.80	19.78	8.4	0.23	0.23	8.4	2.71	4	108	1.16	0.86	8.5	8.3	3.13	3	3.07	9.3	0.00	9.3	3	0.01	1	63.10	0.66	274.2	414.1	287		60	2.41	2.8	2.3	0.52	0.60	27.7	0.52
20.00	19.91	8.3	0.26	0.24	8.3	3.17	4	109	1.17	0.86	8.3	8.2	3.67	3	3.11	9.2	0.00	9.2	3	0.01	1	66.37	0.66	274.2	423.2	303		59	2.38	2.7	1.9	0.51	0.59	27.7	0.51
20.10	20.04	8.5	0.30	0.25	8.5	3.52	3	110	1.17	0.86	8.5	8.4	4.06	3	3.13	9.4	0.00	9.4	3	0.01	1	67.65	0.66	274.2	433.5	320		62	2.44	2.8	1.7	0.52	0.60	27.8	0.52
20.20	20.17	8.0	0.29	0.25	8.1	3.63	3	109	1.18	0.86	8.0	7.9	4.24	3	3.16	8.9	0.00	8.9	3	0.01	1	70.23	0.67	274.2	429.3	314		54	2.30	2.6	1.7	0.49	0.56	27.5	0.49
20.40	20.30	7.7	0.27	0.25	7.7	3.51	3	109	1.19	0.87	7.5	7.5	4.13	3	3.18	8.5	0.00	8.5	3	0.01	1	71.21	0.67	274.3	421.8	301		49	2.18	2.5	1.7	0.47	0.53	27.2	0.47
20.50	20.43	7.4	0.25	0.25	7.5	3.38	3	108	1.20	0.87	7.2	7.2	4.00	3	3.18	8.2	0.00	8.2	3	0.01	1	71.76	0.67	274.3	415.5	290		45	2.10	2.4	1.8	0.45	0.51	27.0	0.45
20.60	20.55	7.4	0.23	0.25	7.4	3.14	3	108	1.20	0.87	7.1	7.1	3.72	3	3.17	8.1	0.00	8.1	3	0.01	1	70.75	0.67	274.3	410.1	281		44	2.08	2.4	1.9	0.44	0.51	26.9	0.44
20.70	20.67	7.4	0.23	0.25	7.4	3.12	3	107	1.21	0.88	7.1	7.0	3.70	3	3.17	8.1	0.00	8.1	3	0.01	1	70.77	0.67	274.3	410.0	281		44	2.07	2.3	1.9	0.44	0.50	26.9	0.44
20.90	20.81	7.5	0.22	0.26	7.5	2.87	4	107	1.22	0.88	7.2	7.1	3.41	3	3.15	8.2	0.00	8.2	3	0.01	1	68.93	0.67	274.3	406.8	275		45	2.11	2.4	2.1	0.45	0.51	27.0	0.45
21.00	20.94	7.2	0.17	0.26	7.2	2.42	4	105	1.22	0.88	6.8	6.8	2.90	3	3.13	7.8	0.00	7.8	3	0.01	1	67.43	0.68	274.3	392.1	252		41	2.01	2.3	2.5	0.43	0.48	26.7	0.43
21.20	21.08	6.2	0.14	0.26	6.2	2.25	4	103	1.23	0.89	5.6	5.6	2.78	3	3.19	6.7	0.00	6.7	3	0.02	1	72.08	0.69	274.3	371.0	221		28	1.66	1.9	2.5	0.36	0.40	25.8	0.36
21.30	21.22	5.7	0.12	0.26	5.8	2.15	4	102	1.24	0.89	5.1	5.1	2.72	3	3.22	6.2	0.00	6.2	3	0.02	1	74.43	0.70	274.3	361.0	207		23	1.52	1.7	2.6	0.32	0.36	25.4	0.32
21.40	21.34	5.6	0.12	0.26	5.7	2.15	4	102	1.24	0.89	5.0	5.0	2.73	3	3.23	6.1	0.00	6.1	3	0.02	1	75.30	0.70	274.3	359.3	205		22	1.48	1.7	2.6	0.32	0.35	25.3	0.32
21.60	21.48	5.7	0.12	0.26	5.8	2.17	4	102	1.25	0.89	5.1	5.1	2.74	3	3.22	6.2	0.00	6.2	3	0.02	1	74.86	0.70	274.3	361.7	208		23	1.51	1.7	2.6	0.32	0.36	25.3	0.32
21.70	21.60	6.0	0.13	0.26	6.1	2.18	4	103	1.26	0.90	5.4	5.4	2.74	3	3.20	6.5	0.00	6.5	3	0.02	1	73.11	0.69	274.3	367.7	216		26	1.61	1.8	2.6	0.34	0.38	25.6	0.34
21.80	21.73	6.4	0.14	0.26	6.5	2.24	4	104	1.26	0.90	5.8	5.8	2.77	3	3.18	6.9	0.00	6.9	3	0.02	1	71.23	0.69	274.3	376.2	228		30	1.73	1.9	2.6	0.37	0.41	26.0	0.37
21.90	21.87	6.8	0.15	0.26	6.8	2.17	4	104	1.27	0.90	6.1	6.1	2.65	3	3.14	7.3	0.00	7.3	3	0.02	1	68.75	0.68	274.3	380.3	233		34	1.85	2.0	2.7	0.40	0.44	26.2	0.40
22.00	21.99	6.9	0.15	0.26	7.0	2.11	4	104	1.28	0.90	6.3	6.2	2.57	3	3.13	7.4	0.00	7.4	3	0.02	1	67.65	0.68	274.3	381.5	235		35	1.89	2.1	2.8	0.41	0.45	26.3	0.41
22.20	22.12	7.1	0.15	0.26	7.1	2.12	4	104	1.28	0.91	6.5	6.4	2.57	3	3.12	7.6	0.00	7.6	3	0.02	1	66.82	0.68	274.3	385.0	240		38	1.96	2.1	2.8	0.42	0.46	26.5	0.42
22.30	22.26	8.4	0.15	0.26	8.4	1.96	5	105	1.29	0.91	7.8	7.7	2.06	3	3.00	8.9	0.00	8.9	3	0.02	1	58.40	0.67	274.2	392.9	252		55	2.37	2.6	3.4	0.51	0.55	27.4	0.51
22.50	22.39	9.5	0.14	0.26	9.5	1.82	5	106	1.30	0.91	9.0	8.9	1.75	4	2.91	10.1	0.00	10.1	4	0.02	1	52.59	0.66	274.2	399.2	262		73	2.74	3.0	4.1	0.59	0.63	28.0	0.59
22.60	22.52	10.9	0.14	0.27	11.0	1.68	5	107	1.31	0.91	10.6	10.3	1.45	4	2.81	11.6	0.00	11.6	4	0.01	1	46.51	0.64	274.2	406.3	274		100	3.22	3.4	4.9	0.69	0.74	28.8	0.69
22.70	22.64	12.6	0.15	0.27	12.6	1.68	5	108	1.31	0.92	12.3	12.0	1.30	4	2.73	13.3	0.00	13.3	4	0.01	1	41.87	0.63	274.2	417.4	293		136	3.78	4.0	5.5	0.81	0.86	29.5	0.81
22.90	22.78	14.6	0.19	0.28	14.7	2.09	5	111	1.32	0.92	14.5	14.1	1.44	4	2.69	15.4	0.00	15.4	4	0.01	1	39.84	0.62	274.1	442.5	339		187	4.45	4.7	4.9	0.95	1.01	30.3	0.95
23.00	22.91	9.4	0.23	0.28	9.4	2.51	4	108	1.33	0.92	8.8	8.7	2.89	3	3.04	9.9	0.00	9.9	3	0.02	1	60.88	0.66	274.2	429.3	310		70	2.70	2.9	2.5	0.58	0.62	27.9	0.58
23.10	23.05	16.1	0.27	0.29	16.1	2.41	5	113	1.33	0.93	15.9	15.6	1.81	4	2.71	16.8	0.00	16.8	4	0.01	1	40.76	0.62	274.1	470.7	390		207	4.93	5.2	3.9	1.06	1.11	30.7	1.06
23.20	23.18	19.0	0.32	0.29	19.0	2.76	5	116	1.34	0.93	19.0	18.5	1.82	4	2.65	19.8	0.00	19.8	4	0.01	1	37.60	0.60	274.1	495.0	442		247	5.89	6.2	3.9	1.26	1.32	31.5	1.26
23.40	23.31	12.6	0.37	0.29	12.6	2.95	4	112	1.35	0.93	12.1	11.9	3.29	3	2.95	13.1	0.00	13.1	3	0.01	1	55.43	0.63	274.2	480.5	403		134	3.75	4.0	2.2	0.80	0.85	29.4	0.80
23.50	23.45	13.2	0.40	0.29	13.2	3.02	4	113	1.36	0.94	12.7	12.5	3.35	3	2.94	13.7	0.00	13.7	4	0.01	1	54.59	0.63	274.1	489.6	421		149	3.96	4.2	2.1	0.85	0.89	29.7	0.85
23.60	23.58	13.9	0.43	0.30	14.0	3.06	4	114	1.36	0.94	13.4	13.2	3.38	3	2.92	14.4	0.00	14.4	4	0.01	1	53.49	0.63	274.1	498.8	439		167	4.20	4.4	2.1	0.90	0.94	29.9	0.90
23.80	23.70	23.3	0.44	0.30	23.3	3.06	5	119	1.37	0.94	23.2	22.7	2.01	4	2.60	24.0	3.28	81.7	5	0.01	1	35.15	0.59	274.0	534.8	528	422	307	0.94	0.5				32.5	0.01
23.90	23.83	14.6	0.46	0.30	14.7	3.11	4	114	1.38	0.95	14.0	13.9	3.42	3	2.91	15.1	0.00	15.1	4	0.01	1	52.65	0.62	274.1	508.4	459		185	4.44	4.6	2.1	0.95	0.99	30.2	0.95
24.00	23.96	14.1	0.48	0.30	14.2	3.44	4	115	1.39	0.95	13.4	13.3	3.80	3	2.95	14.5	0.00	14.5	3	0.01	1	55.39	0.63	274.1	511.7	467		170	4.26	4.4	1.9	0.91	0.95	30.0	0.91
24.20	24.09	13.7	0.47	0.30	13.7	3.42	4	114	1.39	0.95	12.9	12.8	3.79	3	2.97	14.0	0.00	14.0	3	0.01	1	56.24	0.63	274.1	506.8	456		158	4.11	4.3	1.9	0.88	0.91	29.8	0.88
24.30	24.23	12.9	0.43	0.30	12.9	3.36	4	114	1.40	0.96	12.0	11.9	3.75	3	2.99	13.2	0.00	13.2	3	0.01	1	57.69	0.63	274.2	497.2	437		138	3.85	4.0	1.9	0.82	0.85	29.4	0.82
24.40	24.37	12.1	0.38	0.31	12.1	3.18	4	113	1.41	0.96	11.1	11.0	3.58	3	3.00	12.3	0.00	12.3	3	0.01	1	58.69	0.64	274.2	483.5	409		118	3.57	3.7	2.0	0.76	0.79	29.1	0.76
24.60	24.49	12.8	0.34	0.31	12.9	2.77	5	112	1.42	0.96	11.9	11.8	2.93	3	2.93	13.0	0.00	13.0	4	0.01	1	53.88	0.63	274.2	477.5	397		135	3.82	3.9	2.4	0.82	0.84	29.4	0.82
24.70	24.63	13.9	0.31	0.31	13.9	2.56	5	112	1.42	0.97	12.9	12.8	2.52	4	2.86	14.1	0.00	14.1	4	0.01	1	49.68	0.63	274.1	477.9	398		159	4.17	4.3	2.8	0.89	0.91	29.8	0.89
24.80	24.76	14.7	0.30	0.31	14.7	2.50	5	113	1.43	0.97	13.7	13.5	2.24	4	2.81	14.8	0.00	14.8	4	0.01	1	46.72	0.62	274.1	477.5	399		180	4.43	4.5	3.2	0.95	0.97	30.0	0.95
25.00	24.88	14.4	0.28	0.31	14.5	2.54	5	113	1.44	0.97	13.4	13.2	2.14	4	2.81	14.6	0.00	14.6	4	0.01	1	46.54	0.63	274.1	472.2	390		173	4.35	4.4	3.3	0.93	0.95	29.9	0.93
25.10	25.02	15.2	0.26	0.31	15.3	2.50	5	113	1.45	0.98	14.1	14.0	1.88	4	2.76	15.3	0.00	15.3	4	0.01	1	43.69	0.62	274.1	471.0	390		193	4.61	4.7	3.8	0.99	1.00	30.2	0.99
25.20	25.14	15.7	0.23	0.31	15.7	2.39	5	113	1.45	0.98	14.6	14.4	1.61	4	2.71	15.7	0.00	15.7	4	0.01	1	41.10	0.62	274.1	464.6	379		200	4.76	4.8	4.4	1.02	1.03	30.3	1.02
25.30	25.27	9.1	0.21	0.31	9.1	2.36	4	107	1.46	0.98	7.8	7.7	2.80	3	3.07	9.1	0.00	9.1	3	0.02	1	63.41	0.66	274.2	426.5	304		59	2.55	2.6	2.5	0.55	0.55	27.4	0.55
25.50	25.41	9.0	0.20	0.31	9.0	2.22	5	107	1.47	0.99	7.6	7.6	2.63	3	3.06	8.9	0.00	8.9	3	0.02	1	62.85	0.67	274.2	421.4	295		57	2.51	2.5	2.7	0.54	0.54	27.3	0.54
25.60	25.54	8.9	0.17	0.31	9.0	1.90	5	106	1.47	0.99	7.6	7.5	2.26	3	3.03	8.9	0.00	8.9	3	0.02	1	60.68	0.67	274.2	411.6	278		56	2.49	2.5	3.1	0.53	0.54	27.2	0.53
25.70	25.67	8.7	0.17	0.31	8.7	1.96	5	106	1.48	0.99	7.3	7.2	2.34	3	3.05	8.6	0.00	8.6	3	0.02	1	62.20	0.67	274.3	410.4	276		52	2.41	2.4	3.0	0.52	0.52	27.1	0.52
25.90	25.80	8.3	0.18	0.32	8.4	2.13	5	106	1.49	1.00	6.9	6.9	2.58	3	3.09	8.2	0.00	8.2	3	0.03	1	65.10	0.67	274.3	410.9	278		47	2.30	2.3	2.8	0.49	0.49	26.8	0.49
26.00	25.93	8.3	0.17	0.32	8.3	2.13	5	106	1.50	1.00	6.8	6.8	2.56	3	3.10	8.2	0.00	8.2	3	0.03	1	65.29	0.67	274.3	409.9	276		47	2.28	2.3	2.8	0.49	0.49	26.8	0.49
26.10	26.07	9.0	0.17	0.32	9.0	1.93	5	106	1.50	1.00	7.5	7.5	2.31	3	3.04	8.8	0.00	8.8	3	0.02	1	61.24	0.67	274.2	414.4	282		56	2.50	2.5	3.1	0.54	0.53	27.2	0.54
26.20	26.20	9.6	0.18	0.32	9.7	1.83	5	106	1.51	1.00	8.1	8.1	2.15	3	2.99	9.5	0.00	9.5	3	0.02	1	58.05	0.66	274.2	420.1	291		66	2.73	2.7	3.3	0.58	0.58	27.6	0.58
26.40	26.32	10.1	0.18	0.32	10.1	1.76	5	106	1.52	1.01	8.5	8.5	2.05	3	2.96	9.9	0.00	9.9	3	0.02	1	56.15	0.66	274.2	423.2	296		73	2.87	2.8	3.5	0.61	0.61	27.8	0.61
26.50	26.45	9.6	0.18	0.33	9.7	1.91	5	106	1.52	1.01	8.1	8.0	2.24	3	3.01	9.4	0.00	9.4	3	0.02	1	58.82	0.66	274.2	422.7	296		66	2.72	2.7	3.2	0.58	0.57	27.6	0.58
26.60	26.59	9.9	0.20	0.33	10.0	2.07	5	107	1.53	1.01	8.3	8.3	2.43	3	3.01	9.7	0.00	9.7	3	0.02	1	59.30	0.66	274.2	431.9	311		70	2.82	2.8	2.9	0.60	0.59	27.7	0.60
26.80	26.72	10.4	0.24	0.33	10.4	2.33	5	109	1.54	1.02	8.7	8.7	2.72	3	3.02	10.1	0.00	10.1	3	0.02	1	59.97	0.66	274.2	445.6	335		77	2.96	2.9	2.6	0.63	0.62	27.9	0.63
26.90	26.85	11.1	0.32	0.33	11.2	2.89	4	111	1.54	1.02	9.5	9.4	3.34	3	3.04	10.8	0.00	10.8	3	0.02	1	61.40	0.65	274.2	470.7	382		91	3.22	3.1	2.1	0.69	0.67	28.3	0.69
27.00	26.98	14.3	0.37	0.34	14.3	2.62	5	113	1.55	1.02	12.5	12.4	2.87	3	2.91	13.8	0.00	13.8	4	0.01	1	52.39	0.63	274.1	496.6	432		159	4.26	4.1	2.5	0.91	0.89	29.6	0.91
27.20	27.11	18.8	0.33	0.35	18.9	1.87	6	113	1.56	1.03	16.9	16.8	1.91	4	2.70	18.2	0.00	18.2	4	0.01	1	40.40	0.61	274.1	507.2	452		242	5.77	5.6	3.7	1.24	1.20	31.1	1.24
27.30	27.25	23.0	0.48	0.35	23.0	2.33	6	117	1.57	1.03	20.9	20.8	2.24	4	2.66	22.2	0.00	22.2	4	0.01	1	38.52	0.59	274.0	552.2	553		301	7.16	6.9	3.2	1.53	1.48	32.1	1.53

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Z_b (ft)	Z_m (ft)	q_c (tsf)	f_s (tsf)	u_2 (tsf)	q_t (tsf)	R_f	SBT	γ (pcf)	σ_{v0} (tsf)	σ_{v0}' (tsf)	Q_t	Q_{tn}	F_R	SBT_n	I_c	q_{c1N}	K_c	$Q_{tn,cs}$	$(SBT)_{Ic}$	B_q	$(SBT)_{Bq}$	F_C (%)	c	R	V_s (ft/s)	G_0 (tsf)	E' (tsf)	M (tsf)	σ_p' (tsf)	OCR	S_t	S_u (tsf)	S_u/σ_{v0}'	φ (°)	c' (tsf)
27.40	27.38	30.1	0.76	0.37	30.2	3.09	5	121	1.58	1.03	27.7	27.6	2.66	4	2.61	29.0	0.00	29.0	4	0.01	1	35.86	0.57	274.0	616.5	718		401	9.54	9.2	2.7	2.04	1.97	33.4	2.04
27.60	27.51	44.7	1.15	0.38	44.7	3.40	5	126	1.58	1.04	41.6	41.4	2.66	5	2.47	42.8	2.60	103.6	5	0.00	1	29.26	0.54	273.9	691.6	938	705	604	1.20	1.2				35.4	0.02
27.70	27.65	64.5	1.44	0.38	64.5	3.28	6	130	1.59	1.04	60.4	60.2	2.29	5	2.31	61.5	1.96	122.7	5	0.00	1	22.77	0.52	273.8	754.3	1,145	839	881	1.82	1.7				37.2	0.04
27.80	27.77	65.5	1.51	0.37	65.6	3.74	5	131	1.60	1.05	61.2	61.0	2.35	5	2.31	62.4	1.97	123.9	5	0.00	1	22.91	0.52	273.8	762.4	1,181	857	896	1.85	1.8				37.2	0.04
28.00	27.90	29.3	1.22	0.35	29.3	4.18	4	123	1.61	1.05	26.4	26.4	4.40	4	2.77	27.8	0.00	27.8	4	0.01	1	44.23	0.58	274.0	671.0	864		388	9.25	8.8	1.6	1.98	1.88	33.2	1.98
28.10	28.05	21.8	0.98	0.35	21.9	4.47	3	121	1.62	1.05	19.2	19.2	4.81	3	2.90	20.7	0.00	20.7	4	0.01	1	51.84	0.60	274.1	622.4	729		284	6.76	6.4	1.5	1.45	1.37	31.7	1.45
28.20	28.17	20.0	0.92	0.35	20.1	4.59	3	120	1.62	1.06	17.5	17.5	4.98	3	2.94	18.9	0.00	18.9	4	0.01	1	54.49	0.60	274.1	610.0	696		259	6.16	5.8	1.4	1.32	1.25	31.3	1.32
28.40	28.29	20.0	0.96	0.36	20.1	4.81	3	121	1.63	1.06	17.4	17.4	5.22	3	2.95	18.9	0.00	18.9	3	0.01	1	55.42	0.61	274.1	615.5	711		259	6.16	5.8	1.4	1.32	1.24	31.2	1.32
28.50	28.43	29.9	1.31	0.37	29.9	4.54	4	124	1.64	1.07	26.6	26.6	4.63	3	2.78	28.1	0.00	28.1	4	0.01	1	44.97	0.58	274.0	683.3	902		396	9.43	8.9	1.5	2.02	1.90	33.3	2.02
28.60	28.55	51.3	1.23	0.36	51.4	2.85	6	126	1.65	1.07	46.5	46.7	2.47	5	2.41	48.2	2.32	109.0	5	0.00	1	26.65	0.54	273.9	714.1	1,000	752	696	1.40	1.3				36.0	0.03
28.70	28.68	49.2	1.36	0.34	49.2	3.55	5	127	1.66	1.07	44.3	44.5	2.86	5	2.46	46.0	2.58	107.7	5	0.01	1	29.08	0.54	273.9	724.2	1,038	773	666	1.33	1.2				35.7	0.03
28.90	28.82	70.1	1.79	0.35	70.1	3.63	5	131	1.67	1.08	63.5	63.9	2.61	5	2.33	65.5	2.02	128.4	5	0.00	1	23.51	0.51	273.8	796.5	1,293	935	958	1.97	1.8				37.5	0.04
29.00	28.96	91.9	2.05	0.33	92.0	3.54	6	134	1.67	1.08	83.4	84.0	2.27	5	2.20	85.8	1.66	147.7	5	0.00	1	19.03	0.49	273.8	844.9	1,483	1,053	1,264	2.58	2.4				38.8	0.05
29.10	29.09	41.7	2.06	0.21	41.8	4.95	4	128	1.68	1.09	36.9	37.1	5.13	4	2.71	38.7	0.00	38.7	4	0.01	1	41.03	0.55	273.9	777.5	1,205		561	13.36	12.4	1.4	2.86	2.65	34.9	2.86
29.30	29.22	33.4	1.71	0.18	33.5	5.11	3	126	1.69	1.09	29.1	29.2	5.38	3	2.80	30.9	0.00	30.9	4	0.01	1	45.90	0.57	274.0	731.5	1,050		445	10.59	9.7	1.3	2.27	2.09	33.7	2.27
29.40	29.36	27.4	1.29	0.18	27.5	4.70	3	124	1.70	1.10	23.5	23.6	5.01	3	2.84	25.3	0.00	25.3	4	0.02	1	48.61	0.58	274.0	678.5	885		361	8.59	7.9	1.4	1.84	1.69	32.7	1.84
29.50	29.48	19.0	0.93	0.17	19.0	4.88	3	120	1.71	1.10	15.8	15.8	5.34	3	2.99	17.4	0.00	17.4	3	0.03	1	57.99	0.61	274.1	611.3	699		243	5.78	5.3	1.3	1.24	1.13	30.8	1.24
29.70	29.60	14.0	0.67	0.17	14.0	4.78	3	117	1.71	1.10	11.1	11.2	5.44	3	3.11	12.8	0.00	12.8	3	0.04	1	66.51	0.64	274.2	555.4	561		137	4.09	3.7	1.3	0.88	0.80	29.1	0.88
29.80	29.74	11.8	0.53	0.18	11.8	4.52	3	115	1.72	1.11	9.1	9.1	5.28	3	3.17	10.7	0.00	10.7	3	0.04	1	71.02	0.65	274.2	523.0	488		92	3.36	3.0	1.3	0.72	0.65	28.2	0.72
29.90	29.87	10.8	0.48	0.18	10.8	4.49	3	114	1.73	1.11	8.2	8.2	5.33	3	3.21	9.8	0.00	9.8	3	0.05	1	74.16	0.66	274.2	508.3	458		74	3.02	2.7	1.3	0.65	0.58	27.6	0.65
30.10	30.00	11.4	0.45	0.18	11.4	3.92	3	114	1.74	1.11	8.7	8.7	4.60	3	3.15	10.3	0.00	10.3	3	0.05	1	69.48	0.65	274.2	505.9	451		84	3.23	2.9	1.5	0.69	0.62	27.9	0.69
30.20	30.14	12.4	0.37	0.19	12.4	3.00	4	112	1.75	1.12	9.5	9.6	3.48	3	3.05	11.2	0.00	11.2	3	0.04	1	61.98	0.65	274.2	496.9	431		102	3.55	3.2	2.0	0.76	0.68	28.4	0.76
30.30	30.26	10.8	0.31	0.19	10.8	2.86	4	111	1.75	1.12	8.1	8.1	3.41	3	3.11	9.7	0.00	9.7	3	0.05	1	65.85	0.66	274.2	473.7	386		73	3.01	2.7	2.1	0.64	0.58	27.6	0.64
30.40	30.38	9.2	0.24	0.19	9.2	2.57	4	108	1.76	1.12	6.7	6.7	3.16	3	3.16	8.3	0.00	8.3	3	0.06	1	69.69	0.67	274.3	445.1	333		50	2.49	2.2	2.2	0.53	0.48	26.7	0.53
30.60	30.52	10.0	0.21	0.19	10.0	2.10	5	107	1.77	1.13	7.3	7.4	2.53	3	3.07	9.0	0.00	9.0	3	0.05	1	63.32	0.67	274.2	442.5	327		61	2.75	2.5	2.8	0.59	0.53	27.1	0.59
30.70	30.65	9.4	0.20	0.19	9.4	2.14	5	107	1.77	1.13	6.8	6.8	2.62	3	3.11	8.4	0.00	8.4	3	0.06	1	65.93	0.67	274.3	436.3	317		52	2.55	2.3	2.7	0.55	0.49	26.8	0.55
30.80	30.78	9.5	0.19	0.19	9.5	1.98	5	107	1.78	1.13	6.8	6.9	2.42	3	3.08	8.5	0.00	8.5	3	0.06	1	64.39	0.67	274.3	432.9	310		53	2.58	2.3	2.9	0.55	0.49	26.8	0.55
31.00	30.91	9.6	0.19	0.19	9.6	1.97	5	107	1.79	1.13	6.9	6.9	2.41	3	3.08	8.6	0.00	8.6	3	0.06	1	64.05	0.67	274.3	434.1	312		54	2.61	2.3	3.0	0.56	0.50	26.8	0.56
31.10	31.04	9.9	0.20	0.20	10.0	2.04	5	107	1.79	1.14	7.2	7.2	2.48	3	3.07	8.9	0.00	8.9	3	0.06	1	63.46	0.67	274.2	441.0	324		59	2.72	2.4	2.9	0.58	0.52	27.0	0.58
31.30	31.18	10.8	0.24	0.19	10.8	2.22	5	109	1.80	1.14	7.9	8.0	2.66	3	3.05	9.6	0.00	9.6	3	0.05	1	62.07	0.66	274.2	458.1	355		72	3.01	2.7	2.7	0.65	0.57	27.5	0.65
31.40	31.33	12.1	0.28	0.20	12.1	2.31	5	110	1.81	1.14	9.0	9.1	2.70	3	3.01	10.8	0.00	10.8	3	0.05	1	59.04	0.65	274.2	476.7	389		94	3.45	3.0	2.6	0.74	0.65	28.2	0.74
31.50	31.45	12.8	0.32	0.20	12.8	2.50	5	111	1.82	1.15	9.6	9.6	2.90	3	3.00	11.3	0.00	11.3	3	0.04	1	58.80	0.65	274.2	489.9	415		106	3.66	3.2	2.4	0.78	0.69	28.4	0.78
31.60	31.57	12.3	0.36	0.20	12.3	2.94	4	112	1.82	1.15	9.1	9.2	3.44	3	3.06	10.9	0.00	10.9	3	0.05	1	62.93	0.65	274.2	497.0	430		96	3.49	3.1	2.1	0.75	0.65	28.2	0.75
31.80	31.71	11.4	0.36	0.20	11.4	3.19	4	112	1.83	1.15	8.3	8.4	3.79	3	3.12	10.1	0.00	10.1	3	0.05	1	66.99	0.66	274.2	493.0	423		80	3.20	2.8	1.9	0.68	0.60	27.7	0.68
31.90	31.86	10.9	0.35	0.20	11.0	3.22	4	112	1.84	1.16	7.9	7.9	3.86	3	3.14	9.6	0.00	9.6	3	0.05	1	68.66	0.66	274.2	488.2	413		73	3.05	2.6	1.8	0.65	0.57	27.5	0.65
32.00	31.99	10.9	0.35	0.21	10.9	3.25	4	112	1.85	1.16	7.8	7.8	3.87	3	3.15	9.5	0.00	9.5	3	0.05	1	69.07	0.66	274.2	487.1	412		71	3.01	2.6	1.8	0.65	0.56	27.4	0.65
32.20	32.10	12.0	0.40	0.21	12.1	3.36	4	113	1.85	1.16	8.8	8.8	3.96	3	3.11	10.5	0.00	10.5	3	0.05	1	66.42	0.65	274.2	505.9	449		90	3.40	2.9	1.8	0.73	0.63	28.0	0.73
32.30	32.22	21.9	0.42	0.22	22.0	2.74	5	117	1.86	1.17	17.2	17.5	2.07	4	2.71	19.2	0.00	19.2	4	0.02	1	41.03	0.60	274.1	550.4	553		281	6.70	5.8	3.4	1.44	1.25	31.3	1.44
32.40	32.36	23.9	0.36	0.21	24.0	2.39	6	117	1.87	1.17	18.9	19.3	1.62	4	2.62	20.9	0.00	20.9	4	0.02	1	36.27	0.60	274.1	544.4	540		309	7.36	6.4	4.4	1.58	1.38	31.7	1.58
32.60	32.50	12.0	0.34	0.21	12.1	2.85	4	112	1.88	1.17	8.7	8.7	3.36	3	3.08	10.5	0.00	10.5	3	0.05	1	63.72	0.65	274.2	493.6	423		89	3.39	2.9	2.1	0.73	0.62	28.0	0.73
32.70	32.62	12.2	0.31	0.22	12.2	2.53	5	111	1.88	1.18	8.8	8.9	2.99	3	3.04	10.6	0.00	10.6	3	0.05	1	61.36	0.65	274.2	487.0	409		92	3.45	3.0	2.4	0.74	0.63	28.0	0.74
32.80	32.75	12.6	0.31	0.22	12.6	2.47	5	111	1.89	1.18	9.1	9.2	2.89	3	3.02	10.9	0.00	10.9	3	0.05	1	59.92	0.65	274.2	490.0	414		99	3.58	3.1	2.5	0.77	0.66	28.2	0.77
33.00	32.88	14.6	0.36	0.22	14.6	2.44	5	112	1.90	1.18	10.8	10.9	2.79	3	2.95	12.6	0.00	12.6	3	0.04	1	55.35	0.64	274.2	510.8	456		139	4.25	3.6	2.5	0.91	0.78	29.0	0.91
33.10	33.03	18.6	0.48	0.22	18.6	2.57	5	115	1.91	1.19	14.1	14.3	2.86	4	2.86	16.1	0.00	16.1	4	0.03	1	49.72	0.62	274.1	552.9	547		234	5.57	4.8	2.5	1.19	1.02	30.3	1.19
33.20	33.17	23.2	0.57	0.23	23.2	2.46	6	117	1.91	1.19	17.9	18.2	2.68	4	2.76	20.0	0.00	20.0	4	0.02	1	43.90	0.60	274.1	585.5	624		298	7.09	6.1	2.6	1.52	1.30	31.5	1.52
33.30	33.29	26.2	0.67	0.23	26.2	2.54	6	119	1.92	1.19	20.4	20.8	2.74	4	2.72	22.5	0.00	22.5	4	0.02	1	41.74	0.59	274.0	610.3	687		340	8.10	6.9	2.6	1.74	1.48	32.1	1.74
33.50	33.42	26.3	0.76	0.23	26.4	2.90	5	120	1.93	1.20	20.4	20.8	3.12	4	2.76	22.6	0.00	22.6	4	0.02	1	43.61	0.59	274.0	625.3	727		342	8.14	6.9	2.3	1.74	1.49	32.1	1.74
33.60	33.56	25.3	0.77	0.23	25.4	3.05	5	120	1.94	1.20	19.5	19.9	3.30	4	2.79	21.7	0.00	21.7	4	0.02	1	45.30	0.59	274.0	624.4	725		328	7.82	6.6	2.2	1.67	1.42	31.9	1.67
33.70	33.68	24.2	0.74	0.23	24.3	3.07	5	119	1.94	1.20	18.5	18.9	3.33	4	2.81	20.7	0.00	20.7	4	0.02	1	46.48	0.60	274.1	617.1	706		312	7.44	6.3	2.1	1.59	1.35	31.6	1.59
33.90	33.80	23.9	0.78	0.23	23.9	3.28	5	120	1.95	1.21	18.2	18.5	3.56	4	2.83	20.4	0.00	20.4	4	0.02	1	47.90	0.60	274.1	621.9	719		308	7.33	6.2	2.0	1.57	1.32	31.5	1.57
34.00	33.93	24.2	0.81	0.24	24.3	3.33	5	120	1.96	1.21	18.4	18.8	3.61	4	2.83	20.6	0.00	20.6	4	0.02	1	47.90	0.60	274.1	626.5	731		312	7.44	6.3	2.0	1.59	1.34	31.6	1.59
34.10	34.06	25.7	0.81	0.24	25.8	3.14	5	120	1.97	1.22	19.6	20.0	3.39	4	2.79	21.8	0.00	21.8	4	0.02	1	45.67	0.59	274.0	631.4	743		333	7.93	6.7	2.1	1.70	1.43	31.9	1.70
34.30	34.20	24.2	0.76	0.24	24.2	3.13	5	119	1.97	1.22	18.2	18.6	3.40	4	2.82	20.4	0.00	20.4	4	0.02	1	47.09	0.60	274.1	620.1	713		311	7.41	6.2	2.1	1.59	1.33	31.6	1.59
34.40	34.35	17.9	0.71	0.24	17.9	3.97	4	118	1.98	1.22	13.0	13.2	4.43	3	3.01	15.1	0.00	15.1	3	0.03	1	58.88	0.62	274.1	590.4	640		210	5.30	4.4	1.6	1.14	0.94	29.9	1.14
34.50	34.47	14.0	0.64	0.23	14.0	4.62	3	117	1.99	1.23	9.8	9.9	5.37	3	3.15	11.7	0.00	11.7	3	0.04	1	69.48	0.64	274.2	563.5	576		118	4.00	3.3	1.3	0.86	0.70	28.5	0.86
34.70	34.59	11.2	0.52	0.23	11.2	4.68	3	115	2.00	1.23	7.5	7.5	5.68	3	3.26	9.4	0.00	9.4	3	0.06	1	77.81	0.66	274.2	528.5	498		69	3.08	2.5	1.2	0.66	0.54	27.2	0.66
34.80	34.73	10.3	0.45	0.23	10.3	4.41	3	113	2.01	1.23	6.7	6.7	5.46	3	3.29	8.6	0.00	8.6	3	0.07	1	80.07	0.67	274.3	509.9	458		56	2.77	2.2	1.3	0.59	0.48	26.7	0.59
34.90	34.86	9.8	0.38	0.23	9.9	3.82	3	112	2.01	1.24	6.3	6.4	4.79	3	3.28	8.2	0.00	8.2	3	0.07	1	78.99	0.67	274.3	491.8	421		50	2.62	2.1	1.5	0.56	0.45	26.4	0.56
35.10	34.99	10.0	0.29	0.23	10.0	2.94	4	110	2.02	1.24	6.5	6.5	3.67	3	3.20	8.3	0.00	8.3	3	0.07	1	73.22	0.67	274.3	474.7	385		52	2.67	2.2	1.9	0.57	0.46	26.5	0.57
35.20	35.12	9.7	0.25	0.23	9.8	2.60	4	109	2.03	1.24	6.2	6.3	3.26	3	3.19	8.1	0.00	8.1	3	0.07	1	72.08	0.67	274.3	462.3	361		48	2.58	2.1	2.2	0.55	0.45	26.4	0.55
35.30	35.25	10.0	0.25	0.23	10.0	2.53	4	109	2.03	1.25	6.4	6.4	3.16	3	3.17	8.3	0.00	8.3	3	0.07	1	70.70	0.67	274.3	464.0	364		51	2.66	2.1	2.3	0.57	0.46	26.5	0.57
35.50	35.39	11.6	0.29	0.23	11.7	2.51	5	110	2.04	1.25	7.7	7.8	3.02	3	3.09	9.6	0.00	9.6	3	0.06	1	64.94	0.66	274.2	485.2	404		75	3.21	2.6	2.4	0.69	0.56	27.4	0.69
35.60	35.52	14.8	0.34	0.24	14.9	2.32	5	112	2.05	1.25	10.2	10.4	2.68	3	2.96	12.3	0.00	12.3	3	0.04	1	55.89	0.64	274.2	515.3	463		134	4.28	3.5	2.6	0.92	0.74	28.8	0.92
35.70	35.64	17.8	0.42	0.24	17.8	2.37	5	114	2.06	1.26	12.5	12.8	2.67	4	2.89	14.7	0.00	14.7	4	0.04	1	51.24	0.62	274.1	545.0	527		202	5.25	4.3	2.7	1.12	0.91	29.8	1.12
35.80	35.77	22.0	0.50	0.25	22.1	2.28	6	116	2.06	1.26	15.9	16.3	2.51	4	2.79	18.2	0.00	18.2	4	0.03	1	45.27	0.61	274.1	576.7	600		280	6.67	5.4	2.8	1.43	1.17	30.9	1.43
36.00	35.90	22.4	0.55	0.25	22.4	2.44	5	117	2.07	1.26	16.1	16.6	2.69	4	2.80	18.4	0.00	18.4	4	0.03	1	46.00	0.61	274.1	586.2	623		285	6.78	5.5	2.6	1.45	1.18	31.0	1.45
36.10	36.04	20.8	0.53	0.25	20.8	2.55	5	116	2.08	1.27	14.8	15.2	2.83	4	2.84	17.1	0.00	17.1	4	0.03	1	48.53	0.61	274.1	577.9	604		262	6.24	5.1	2.5	1.34	1.08	30.6	1.34
36.30	36.19	19.7	0.53	0.25	19.7	2.72	5	116	2.09	1.27	13.9	14.2	3.04	3	2.88	16.1	0.00	16.1	4	0.03	1	51.04	0.62	274.1	575.2	598		246	5.87	4.7	2.3	1.26	1.01	30.3	1.26
36.40	36.32	20.8	0.56	0.26	20.9	2.68	5	117	2.10	1.27	14.7	15.1	2.97	4	2.86	17.0	0.00	17.0	4	0.03	1	49.36	0.61	274.1	583.7	618		263	6.26	5.0	2.4	1.34	1.08	30.6	1.34

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Z_b (ft)	Z_m (ft)	q_c (tsf)	f_s (tsf)	u_2 (tsf)	q_t (tsf)	R_f	SBT	γ (pcf)	σ_{v0} (tsf)	σ_{v0}' (tsf)	Q_t	Q_{tn}	F_R	SBT_n	I_c	q_{c1N}	K_c	$Q_{tn,cs}$	$(SBT)_{Ic}$	B_q	$(SBT)_{Bq}$	F_C (%)	c	R	V_s (ft/s)	G_0 (tsf)	E' (tsf)	M (tsf)	σ_p' (tsf)	OCR	S_t	S_u (tsf)	S_u/σ_{v0}'	φ (°)	c' (tsf)
36.50	36.44	28.1	0.76	0.26	28.1	2.69	6	120	2.10	1.28	20.4	21.0	2.90	4	2.74	23.0	0.00	23.0	4	0.02	1	42.57	0.59	274.0	637.6	756		364	8.67	7.0	2.4	1.86	1.50	32.1	1.86
36.60	36.58	37.5	1.08	0.27	37.6	2.86	6	123	2.11	1.28	27.7	28.7	3.04	4	2.65	30.9	0.00	30.9	4	0.02	1	37.76	0.57	274.0	702.7	944		496	11.81	9.6	2.3	2.53	2.05	33.6	2.53
36.70	36.70	49.6	1.43	0.27	49.7	2.89	6	126	2.12	1.29	37.0	38.8	3.01	4	2.50	41.1	2.78	102.3	5	0.01	1	30.90	0.55	273.9	743.2	1,081	814	666	1.29	1.0				35.1	0.02
36.90	36.82	61.3	1.65	0.27	61.4	2.69	6	128	2.13	1.29	46.0	48.5	2.79	5	2.42	51.1	2.36	113.0	5	0.01	1	27.03	0.53	273.9	783.9	1,218	906	830	1.62	1.3				36.1	0.03
37.00	36.95	54.3	1.59	0.27	54.3	2.94	6	127	2.13	1.29	40.4	42.4	3.04	4	2.48	45.0	2.66	106.7	5	0.01	1	29.82	0.54	273.9	766.8	1,161	867	731	1.39	1.1				35.5	0.03
37.10	37.08	40.0	1.43	0.27	40.1	3.57	5	125	2.14	1.30	29.2	30.4	3.76	4	2.69	32.7	0.00	32.7	4	0.02	1	39.97	0.56	274.0	746.9	1,087		531	12.65	10.1	1.9	2.71	2.17	33.9	2.71
37.30	37.22	33.3	1.16	0.28	33.4	3.48	5	123	2.15	1.30	24.0	24.8	3.72	4	2.75	27.0	0.00	27.0	4	0.02	1	43.28	0.58	274.0	704.3	951		437	10.41	8.3	1.9	2.23	1.77	32.9	2.23
37.40	37.36	31.7	1.00	0.28	31.7	3.15	5	122	2.16	1.31	22.6	23.4	3.38	4	2.74	25.5	0.00	25.5	4	0.02	1	42.87	0.58	274.0	682.0	883		414	9.85	7.8	2.1	2.11	1.67	32.7	2.11
37.50	37.48	30.7	0.95	0.28	30.8	3.10	5	122	2.17	1.31	21.9	22.6	3.33	4	2.75	24.7	0.00	24.7	4	0.02	1	43.29	0.58	274.0	674.4	860		401	9.54	7.5	2.1	2.04	1.62	32.5	2.04
37.70	37.61	29.0	1.11	0.29	29.0	3.81	5	123	2.18	1.31	20.5	21.1	4.11	3	2.83	23.2	0.00	23.2	4	0.02	1	47.93	0.59	274.0	687.8	902		376	8.96	7.0	1.7	1.92	1.51	32.2	1.92
37.80	37.75	28.5	1.13	0.29	28.6	3.96	4	123	2.18	1.32	20.0	20.6	4.28	3	2.85	22.8	0.00	22.8	4	0.02	1	49.01	0.59	274.0	689.3	907		369	8.79	6.9	1.7	1.88	1.47	32.1	1.88
37.90	37.88	29.0	1.17	0.29	29.1	4.06	4	123	2.19	1.32	20.3	21.0	4.36	3	2.85	23.1	0.00	23.1	4	0.02	1	49.01	0.59	274.0	696.1	927		377	8.97	7.0	1.6	1.92	1.50	32.1	1.92
38.10	38.00	46.4	1.20	0.31	46.4	3.75	5	127	2.20	1.33	33.4	35.2	2.72	4	2.50	37.5	2.76	97.6	5	0.01	1	30.75	0.55	273.9	715.4	1,012	755	619	1.33	0.8				34.6	0.02
38.20	38.13	50.4	1.24	0.30	50.5	3.95	5	128	2.21	1.33	36.3	38.5	2.56	5	2.46	40.9	2.55	100.9	5	0.01	1	28.82	0.55	273.9	726.9	1,055	779	676	1.33	0.9				35.0	0.03
38.30	38.26	29.7	1.25	0.30	29.7	4.23	4	124	2.22	1.33	20.6	21.3	4.56	3	2.86	23.5	0.00	23.5	4	0.02	1	49.52	0.59	274.0	707.7	963		385	9.17	7.1	1.6	1.97	1.52	32.2	1.97
38.50	38.40	27.8	1.18	0.30	27.9	4.24	4	123	2.22	1.34	19.2	19.7	4.60	3	2.89	21.9	0.00	21.9	4	0.02	1	51.15	0.59	274.0	695.1	924		359	8.55	6.6	1.5	1.83	1.41	31.8	1.83
38.60	38.54	26.6	1.08	0.30	26.6	4.07	4	122	2.23	1.34	18.2	18.7	4.44	3	2.89	20.8	0.00	20.8	4	0.02	1	51.61	0.60	274.0	680.9	881		341	8.13	6.2	1.6	1.74	1.34	31.6	1.74
38.70	38.66	26.3	1.03	0.30	26.3	3.93	4	122	2.24	1.35	17.9	18.4	4.29	3	2.89	20.6	0.00	20.6	4	0.02	1	51.32	0.60	274.1	674.6	862		337	8.03	6.1	1.7	1.72	1.32	31.5	1.72
38.80	38.78	24.0	1.02	0.30	24.1	4.24	4	122	2.25	1.35	16.2	16.6	4.66	3	2.95	18.8	0.00	18.8	4	0.03	1	54.93	0.60	274.1	666.0	838		306	7.28	5.5	1.5	1.56	1.19	31.0	1.56
39.00	38.92	19.8	0.97	0.30	19.8	4.90	3	121	2.26	1.35	13.0	13.2	5.51	3	3.07	15.4	0.00	15.4	3	0.03	1	63.08	0.62	274.1	644.3	779		231	5.85	4.4	1.3	1.25	0.94	29.9	1.25
39.10	39.07	17.2	0.86	0.30	17.3	5.02	3	120	2.27	1.36	11.0	11.2	5.76	3	3.13	13.4	0.00	13.4	3	0.04	1	67.84	0.63	274.1	621.2	717		168	5.00	3.7	1.2	1.07	0.80	29.1	1.07
39.20	39.19	14.7	0.74	0.30	14.7	5.04	3	118	2.27	1.36	9.2	9.2	5.94	3	3.20	11.4	0.00	11.4	3	0.05	1	73.33	0.64	274.2	592.7	644		115	4.16	3.1	1.2	0.89	0.66	28.2	0.89
39.40	39.32	15.1	0.70	0.30	15.2	4.63	3	118	2.28	1.37	9.4	9.5	5.43	3	3.17	11.7	0.00	11.7	3	0.05	1	70.62	0.64	274.2	589.6	635		123	4.30	3.2	1.3	0.92	0.68	28.4	0.92
39.50	39.46	16.6	0.67	0.31	16.6	4.04	4	118	2.29	1.37	10.5	10.7	4.66	3	3.09	12.8	0.00	12.8	3	0.04	1	64.97	0.63	274.2	592.5	641		153	4.78	3.6	1.5	1.02	0.76	28.9	1.02
39.60	39.58	18.6	0.75	0.31	18.7	4.01	4	119	2.30	1.37	11.9	12.2	4.57	3	3.04	14.4	0.00	14.4	3	0.04	1	61.42	0.63	274.1	613.4	694		200	5.46	4.1	1.6	1.17	0.87	29.5	1.17
39.80	39.71	18.6	0.84	0.31	18.6	4.52	3	120	2.30	1.38	11.9	12.1	5.15	3	3.08	14.3	0.00	14.3	3	0.04	1	63.85	0.63	274.1	625.9	728		197	5.44	4.0	1.4	1.17	0.86	29.5	1.17
39.90	39.84	18.5	0.83	0.31	18.5	4.48	3	119	2.31	1.38	11.8	12.0	5.10	3	3.08	14.2	0.00	14.2	3	0.04	1	63.90	0.63	274.1	624.2	723		194	5.41	4.0	1.4	1.16	0.86	29.5	1.16
40.00	39.97	18.6	0.80	0.31	18.6	4.32	3	119	2.32	1.38	11.8	12.0	4.92	3	3.07	14.2	0.00	14.2	3	0.04	1	63.12	0.63	274.1	621.6	716		196	5.44	4.0	1.4	1.17	0.86	29.5	1.17
40.20	40.10	18.8	0.73	0.31	18.9	3.88	4	118	2.33	1.39	11.9	12.2	4.41	3	3.03	14.4	0.00	14.4	3	0.04	1	60.78	0.62	274.1	613.0	692		202	5.52	4.1	1.6	1.18	0.87	29.6	1.18
40.30	40.24	18.8	0.71	0.31	18.8	3.78	4	118	2.33	1.39	11.9	12.1	4.30	3	3.03	14.3	0.00	14.3	3	0.04	1	60.47	0.63	274.1	610.2	684		200	5.50	4.0	1.7	1.18	0.87	29.5	1.18
40.40	40.38	19.4	0.72	0.31	19.4	3.72	4	118	2.34	1.40	12.2	12.5	4.22	3	3.01	14.7	0.00	14.7	3	0.04	1	59.40	0.62	274.1	614.6	695		214	5.69	4.2	1.7	1.22	0.90	29.7	1.22
40.60	40.50	19.3	0.71	0.31	19.3	3.70	4	118	2.35	1.40	12.1	12.4	4.21	3	3.02	14.6	0.00	14.6	3	0.04	1	59.53	0.62	274.1	613.4	692		211	5.65	4.1	1.7	1.21	0.89	29.6	1.21
40.70	40.65	22.6	0.93	0.31	22.7	4.09	4	121	2.36	1.40	14.5	14.9	4.57	3	2.98	17.1	0.00	17.1	3	0.03	1	56.99	0.61	274.1	655.4	806		284	6.77	5.0	1.6	1.45	1.06	30.5	1.45
40.80	40.77	29.1	1.17	0.32	29.2	4.02	4	123	2.37	1.41	19.1	19.8	4.36	3	2.87	22.1	0.00	22.1	4	0.02	1	50.32	0.59	274.0	704.8	950		376	8.94	6.6	1.6	1.92	1.41	31.9	1.92
40.90	40.88	31.3	1.42	0.32	31.3	4.55	4	125	2.37	1.41	20.5	21.3	4.90	3	2.88	23.8	0.00	23.8	4	0.02	1	50.86	0.59	274.0	736.4	1,051		405	9.65	7.1	1.4	2.07	1.52	32.2	2.07
41.10	41.02	34.7	1.69	0.32	34.7	4.88	4	126	2.38	1.41	22.9	23.8	5.23	3	2.87	26.4	0.00	26.4	4	0.02	1	49.87	0.58	274.0	770.4	1,165		453	10.79	7.9	1.4	2.31	1.70	32.7	2.31
41.20	41.17	39.6	1.92	0.33	39.7	4.85	4	128	2.39	1.42	26.3	27.5	5.15	3	2.82	30.3	0.00	30.3	4	0.02	1	46.98	0.57	274.0	802.2	1,276		522	12.44	9.2	1.4	2.66	1.96	33.4	2.66
41.40	41.30	45.1	2.06	0.34	45.2	4.57	4	128	2.40	1.42	30.1	31.6	4.82	4	2.75	34.6	0.00	34.6	4	0.01	1	43.43	0.56	273.9	826.0	1,362		599	14.27	10.5	1.5	3.06	2.26	34.1	3.06
41.50	41.42	50.2	2.45	0.34	50.2	4.89	4	130	2.41	1.43	33.5	35.2	5.13	3	2.74	38.6	0.00	38.6	4	0.01	1	42.62	0.55	273.9	865.0	1,512		669	15.94	11.7	1.4	3.41	2.52	34.6	3.41
41.60	41.54	59.0	2.92	0.35	59.0	4.97	4	132	2.42	1.43	39.5	41.8	5.17	4	2.69	45.7	0.00	45.7	4	0.01	1	40.01	0.54	273.9	912.7	1,706		792	18.87	13.9	1.4	4.04	2.99	35.4	4.04
41.70	41.68	86.1	3.61	0.36	86.1	4.22	5	134	2.42	1.44	58.3	62.9	4.32	4	2.47	68.1	2.59	136.1	5	0.01	1	29.22	0.51	273.8	962.5	1,934	1,366	1,172	2.29	1.6				37.4	0.05
41.90	41.80	122.1	3.87	0.38	122.1	3.19	6	136	2.43	1.44	83.1	91.4	3.23	5	2.27	98.9	1.85	168.1	5	0.01	1	21.54	0.48	273.7	1,018.2	2,187	1,529	1,676	3.28	2.3				39.2	0.07
42.00	41.94	142.3	3.98	0.38	142.4	2.80	7	136	2.44	1.45	96.8	107.5	2.85	5	2.19	116.3	1.63	184.6	5	0.00	1	18.60	0.47	273.7	1,043.3	2,306	1,605	3,210	3.79	2.6				39.9	0.08
42.10	42.07	152.5	4.84	0.36	152.6	3.18	6	138	2.45	1.45	103.5	114.8	3.22	5	2.21	125.2	1.68	197.2	5	0.00	1	19.38	0.47	273.7	1,096.8	2,579	1,774	2,102	4.03	2.8				40.3	0.08
42.30	42.21	132.5	4.76	0.29	132.5	3.60	6	137	2.46	1.46	89.3	98.4	3.66	8	2.29	107.3	1.92	179.7	5	0.01	1	22.27	0.48	273.7	1,075.0	2,469	1,704	1,821	3.54	2.4				39.5	0.07
42.40	42.35	97.4	3.87	0.22	97.4	3.98	5	135	2.47	1.46	65.0	70.8	4.08	4	2.42	77.0	2.36	146.0	5	0.01	1	27.03	0.50	273.8	992.3	2,068	1,452	1,329	2.60	1.8				38.0	0.05
42.50	42.48	77.7	3.40	0.22	77.7	4.37	5	134	2.48	1.47	51.3	55.5	4.51	4	2.51	60.3	2.82	127.1	5	0.01	1	31.29	0.52	273.8	940.1	1,835	1,303	1,053	2.03	1.4				36.8	0.04
42.70	42.60	91.3	3.43	0.22	91.3	3.77	5	134	2.49	1.47	60.4	66.0	3.86	4	2.42	71.6	2.37	139.1	5	0.01	1	27.09	0.51	273.8	960.7	1,923	1,361	1,244	2.43	1.7				37.6	0.05
42.80	42.74	112.8	3.89	0.20	112.8	3.45	6	136	2.50	1.48	74.8	82.5	3.52	5	2.33	89.6	2.03	159.0	5	0.01	1	23.53	0.49	273.8	1,011.6	2,155	1,509	1,545	3.02	2.0				38.7	0.06
42.90	42.88	96.2	3.70	0.12	96.2	3.85	5	135	2.51	1.48	63.3	69.3	3.94	4	2.41	75.4	2.34	143.8	5	0.01	1	26.81	0.50	273.8	982.5	2,022	1,423	1,312	2.56	1.7				37.8	0.05
43.10	43.00	64.7	2.84	0.06	64.7	4.41	5	132	2.51	1.48	41.9	44.8	4.56	4	2.64	49.2	0.00	49.2	4	0.02	1	37.12	0.53	273.9	923.1	1,745		870	20.72	14.9	1.6	4.44	3.20	35.8	4.44
43.20	43.12	39.7	1.92	0.06	39.8	4.83	4	128	2.52	1.49	25.0	26.3	5.15	3	2.83	29.3	0.00	29.3	4	0.03	1	47.92	0.57	274.0	809.6	1,300		521	12.41	8.8	1.4	2.66	1.88	33.2	2.66
43.30	43.25	27.9	1.17	0.07	27.9	4.18	4	123	2.53	1.49	17.0	17.7	4.61	3	2.93	20.1	0.00	20.1	4	0.04	1	53.70	0.60	274.1	709.0	961		355	8.45	5.9	1.5	1.81	1.26	31.3	1.81
43.40	43.38	28.6	0.83	0.07	28.6	3.49	5	122	2.54	1.50	17.4	18.3	3.17	4	2.82	20.6	0.00	20.6	4	0.04	1	46.90	0.60	274.0	670.2	851		365	8.69	6.1	2.2	1.86	1.31	31.5	1.86
43.60	43.51	29.6	0.68	0.07	29.6	3.01	5	121	2.55	1.50	18.0	19.1	2.52	4	2.74	21.3	0.00	21.3	4	0.04	1	42.85	0.59	274.0	652.0	800		378	9.01	6.4	2.8	1.93	1.36	31.7	1.93
43.70	43.65	31.6	0.68	0.07	31.6	3.14	5	122	2.55	1.50	19.3	20.6	2.35	4	2.70	22.8	0.00	22.8	4	0.03	1	40.53	0.59	274.0	658.3	822		407	9.69	6.9	3.0	2.08	1.47	32.1	2.08
43.80	43.78	33.1	0.72	0.07	33.1	3.52	5	123	2.56	1.51	20.3	21.6	2.36	4	2.69	23.9	0.00	23.9	4	0.03	1	39.73	0.58	274.0	668.3	857		428	10.19	7.2	3.0	2.18	1.55	32.3	2.18
44.00	43.90	23.4	0.92	0.08	23.4	3.94	4	121	2.57	1.51	13.8	14.3	4.42	3	2.98	16.7	0.00	16.7	3	0.05	1	57.47	0.61	274.1	666.9	835		292	6.95	4.8	1.6	1.49	1.02	30.3	1.49
44.10	44.04	38.5	0.96	0.09	38.5	2.77	6	123	2.58	1.52	23.7	25.4	2.67	4	2.66	27.9	0.00	27.9	4	0.03	1	38.60	0.57	274.0	714.9	978		503	11.98	8.5	2.7	2.57	1.81	33.1	2.57
44.30	44.19	41.0	0.97	0.09	41.0	2.88	6	124	2.59	1.52	25.3	27.2	2.52	4	2.63	29.8	0.00	29.8	4	0.03	1	36.70	0.57	274.0	721.8	1,004		538	12.80	9.1	2.8	2.74	1.94	33.4	2.74
44.40	44.33	34.7	0.94	0.09	34.8	3.60	5	124	2.60	1.52	21.1	22.5	2.92	4	2.73	24.9	0.00	24.9	4	0.03	1	41.98	0.58	274.0	704.2	956		450	10.72	7.5	2.4	2.30	1.61	32.5	2.30
44.50	44.45	34.5	0.84	0.09	34.5	3.57	5	124	2.60	1.53	20.9	22.3	2.62	4	2.70	24.7	0.00	24.7	4	0.03	1	40.61	0.58	274.0	690.3	918		447	10.64	7.4	2.7	2.28	1.59	32.4	2.28
44.60	44.57	35.8	0.80	0.09	35.8	3.62	5	124	2.61	1.53	21.7	23.3	2.42	4	2.67	25.6	0.00	25.6	4	0.03	1	38.88	0.58	274.0	689.6	919		465	11.07	7.8	2.9	2.37	1.66	32.6	2.37
44.80	44.69	20.7	0.78	0.09	20.7	3.75	4	119	2.62	1.54	11.8	12.2	4.28	3	3.03	14.6	0.00	14.6	3	0.05	1	60.52	0.62	274.1	639.8	758		221	6.04	4.1	1.7	1.29	0.87	29.5	1.29
44.90	44.82	20.1	0.91	0.10	20.1	4.51	3	120	2.63	1.54	11.4	11.6	5.18	3	3.09	14.2	0.00	14.2	3	0.06	1	65.04	0.63	274.1	654.4	800		203	5.83	3.9	1.4	1.25	0.83	29.3	1.25
45.00	44.96	23.2	1.37	0.10	23.2	5.95	3	124	2.63	1.54	13.3	13.6	6.68	3	3.11	16.3	0.00	16.3	3	0.05	1	66.30	0.61	274.1	717.9	991		281	6.86	4.5	1.1	1.47	0.97	30.1	1.47
45.10	45.09	39.4	1.71	0.10	39.4	4.39	4	127	2.64	1.55	23.7	25.1	4.66	3	2.82	28.1	0.00	28.1	4	0.03	1	47.18	0.57	274.0	797.7	1,254		514	12.24	8.4	1.5	2.62	1.79	33.0	2.62
45.30	45.22	50.1	2.04	0.10	50.1	4.07	5	129	2.65	1.55	30.6	32.7	4.30	4	2.72	36.3	0.00	36.3	4	0.02	1	41.29	0.55	273.9	848.3	1,439		664	15.81	10.9	1.7	3.39	2.34	34.3	3.39
45.40	45.36	55.3	2.02	0.10	55.3	3.67	5	129	2.66	1.56	33.8	36.5	3.84	4	2.65	40.2	0.00	40.2	4	0.02	1	37.85	0.55	273.9	857.1	1,471		737	17.54	12.2	1.9	3.76	2.61	34.8	3.76

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Z_b (ft)	Z_m (ft)	q_c (tsf)	f_s (tsf)	u_2 (tsf)	q_t (tsf)	R_f	SBT	γ (pcf)	σ_{v0} (tsf)	σ_{v0}' (tsf)	Q_t	Q_{tn}	F_R	SBT_n	I_c	q_{c1N}	K_c	$Q_{tn,cs}$	$(SBT)_{Ic}$	B_q	$(SBT)_{Bq}$	F_C (%)	c	R	V_s (ft/s)	G_0 (tsf)	E' (tsf)	M (tsf)	σ_p' (tsf)	OCR	S_t	S_u (tsf)	S_u/σ_{v0}'	φ (°)	c' (tsf)
45.50	45.48	56.5	1.55	0.10	56.5	2.74	6	127	2.67	1.56	34.5	38.0	2.88	4	2.48	41.1	2.66	101.7	5	0.02	1	29.88	0.54	273.9	779.3	1,198	896	754	1.56	0.9				35.0	0.03
45.70	45.60	43.3	0.99	0.10	43.3	2.29	6	123	2.68	1.56	25.9	28.2	2.44	4	2.61	30.8	0.00	30.8	4	0.02	1	35.82	0.56	274.0	733.7	1,028		568	13.53	9.4	2.9	2.90	2.01	33.5	2.90
45.80	45.74	31.1	0.82	0.10	31.1	2.64	6	121	2.68	1.57	18.1	19.3	2.89	4	2.78	21.6	0.00	21.6	4	0.04	1	44.72	0.59	274.0	683.0	874		398	9.47	6.4	2.5	2.03	1.38	31.7	2.03
46.00	45.88	26.3	0.79	0.10	26.3	3.00	5	120	2.69	1.57	15.0	15.8	3.33	3	2.88	18.2	0.00	18.2	4	0.04	1	50.82	0.60	274.1	664.3	822		330	7.87	5.3	2.1	1.69	1.13	30.8	1.69
46.10	46.02	24.0	0.80	0.10	24.0	3.33	5	120	2.70	1.58	13.5	14.1	3.74	3	2.95	16.6	0.00	16.6	4	0.05	1	55.01	0.61	274.1	658.4	806		298	7.10	4.7	1.9	1.52	1.01	30.2	1.52
46.20	46.14	23.5	0.85	0.10	23.6	3.60	5	120	2.71	1.58	13.2	13.7	4.07	3	2.98	16.3	0.00	16.3	3	0.05	1	57.00	0.61	274.1	664.1	823		286	6.95	4.6	1.7	1.49	0.98	30.1	1.49
46.30	46.27	23.5	0.85	0.10	23.5	3.64	5	120	2.72	1.58	13.1	13.6	4.11	3	2.98	16.2	0.00	16.2	3	0.05	1	57.34	0.61	274.1	664.6	825		283	6.92	4.5	1.7	1.48	0.97	30.1	1.48
46.50	46.40	22.3	0.82	0.10	22.3	3.66	4	120	2.72	1.59	12.4	12.8	4.17	3	3.01	15.4	0.00	15.4	3	0.05	1	58.92	0.62	274.1	656.0	801		252	6.54	4.3	1.7	1.40	0.92	29.8	1.40
46.60	46.53	20.0	0.67	0.10	20.0	3.34	5	118	2.73	1.59	10.9	11.2	3.87	3	3.03	13.7	0.00	13.7	3	0.06	1	60.67	0.63	274.1	625.6	717		194	5.76	3.7	1.8	1.23	0.80	29.2	1.23
46.70	46.66	18.1	0.54	0.10	18.2	2.98	5	116	2.74	1.59	9.7	10.0	3.51	3	3.05	12.4	0.00	12.4	3	0.07	1	61.75	0.64	274.2	596.9	643		154	5.14	3.3	2.0	1.10	0.71	28.6	1.10
46.90	46.80	18.1	0.50	0.10	18.1	2.74	5	115	2.75	1.60	9.6	10.0	3.23	3	3.03	12.4	0.00	12.4	3	0.07	1	60.47	0.64	274.2	589.0	622		153	5.12	3.3	2.2	1.10	0.71	28.6	1.10
47.00	46.93	17.7	0.43	0.10	17.7	2.44	5	114	2.75	1.60	9.3	9.7	2.89	3	3.01	12.1	0.00	12.1	3	0.07	1	59.39	0.64	274.2	574.5	586		144	4.97	3.2	2.5	1.07	0.69	28.4	1.07
47.10	47.07	18.3	0.38	0.10	18.3	2.09	6	114	2.76	1.61	9.7	10.1	2.46	3	2.96	12.5	0.00	12.5	3	0.07	1	55.85	0.64	274.2	567.0	567		157	5.18	3.4	2.9	1.11	0.72	28.7	1.11
47.30	47.20	17.7	0.37	0.10	17.7	2.09	5	113	2.77	1.61	9.3	9.7	2.47	3	2.98	12.0	0.00	12.0	3	0.07	1	57.00	0.64	274.2	561.4	554		144	4.97	3.2	2.9	1.06	0.69	28.4	1.06
47.40	47.32	17.8	0.36	0.10	17.8	2.05	6	113	2.78	1.61	9.3	9.7	2.43	3	2.97	12.1	0.00	12.1	3	0.07	1	56.62	0.64	274.2	561.1	553		146	5.00	3.2	2.9	1.07	0.69	28.5	1.07
47.50	47.46	18.5	0.48	0.10	18.6	2.58	5	115	2.78	1.62	9.8	10.1	3.03	3	3.01	12.6	0.00	12.6	3	0.07	1	59.03	0.64	274.2	588.6	620		160	5.26	3.4	2.3	1.13	0.72	28.7	1.13
47.70	47.60	19.0	0.68	0.10	19.0	3.58	4	118	2.79	1.62	10.0	10.3	4.21	3	3.08	12.9	0.00	12.9	3	0.07	1	64.20	0.63	274.2	625.3	717		167	5.40	3.4	1.7	1.16	0.74	28.7	1.16
47.80	47.72	22.2	0.86	0.10	22.3	3.87	4	120	2.80	1.62	12.0	12.4	4.42	3	3.03	15.0	0.00	15.0	3	0.06	1	60.73	0.62	274.1	664.1	823		242	6.48	4.1	1.6	1.39	0.89	29.6	1.39
47.90	47.84	45.3	1.05	0.11	45.3	3.73	5	127	2.81	1.63	26.1	28.6	2.48	4	2.61	31.4	0.00	31.4	4	0.03	1	35.93	0.56	274.0	751.8	1,115		595	14.17	9.5	2.9	3.04	2.04	33.6	3.04
48.00	47.97	31.6	1.27	0.11	31.6	4.03	4	124	2.82	1.63	17.7	18.6	4.42	3	2.90	21.3	0.00	21.3	4	0.04	1	52.14	0.59	274.0	743.7	1,065		403	9.59	6.2	1.6	2.06	1.33	31.6	2.06
48.20	48.10	31.7	1.31	0.11	31.7	4.13	4	124	2.82	1.63	17.7	18.6	4.53	3	2.91	21.4	0.00	21.4	4	0.04	1	52.52	0.59	274.0	748.3	1,080		405	9.64	6.2	1.6	2.07	1.33	31.6	2.07
48.30	48.24	29.9	1.20	0.11	29.9	4.00	4	123	2.83	1.64	16.5	17.4	4.41	3	2.92	20.1	0.00	20.1	4	0.04	1	53.47	0.60	274.0	731.4	1,025		379	9.04	5.8	1.6	1.94	1.24	31.2	1.94
48.50	48.39	30.1	1.31	0.11	30.1	4.34	4	124	2.84	1.64	16.6	17.4	4.78	3	2.94	20.2	0.00	20.2	4	0.04	1	54.83	0.60	274.0	743.9	1,066		382	9.10	5.8	1.5	1.95	1.24	31.3	1.95
48.60	48.52	31.9	1.21	0.11	31.9	3.79	5	124	2.85	1.65	17.6	18.6	4.15	3	2.89	21.3	0.00	21.3	4	0.04	1	51.09	0.59	274.0	739.0	1,049		406	9.68	6.2	1.7	2.07	1.33	31.6	2.07
48.70	48.64	29.8	1.09	0.11	29.8	3.65	5	123	2.86	1.65	16.3	17.3	4.04	3	2.90	19.9	0.00	19.9	4	0.04	1	52.18	0.60	274.1	720.4	989		378	9.00	5.8	1.8	1.93	1.23	31.2	1.93
48.80	48.78	27.2	0.98	0.11	27.3	3.61	5	122	2.87	1.66	14.7	15.5	4.03	3	2.94	18.1	0.00	18.1	4	0.05	1	54.37	0.60	274.1	700.1	926		342	8.13	5.2	1.8	1.74	1.11	30.7	1.74
49.00	48.90	26.3	0.86	0.12	26.3	3.26	5	121	2.87	1.66	14.1	14.9	3.66	3	2.93	17.5	0.00	17.5	4	0.05	1	53.61	0.61	274.1	681.5	870		328	7.82	5.0	1.9	1.68	1.06	30.5	1.68
49.10	49.03	26.1	0.80	0.12	26.1	3.07	5	120	2.88	1.66	14.0	14.7	3.45	3	2.91	17.3	0.00	17.3	4	0.05	1	52.88	0.61	274.1	673.3	845		325	7.75	4.9	2.1	1.66	1.05	30.5	1.66
49.20	49.17	26.5	0.82	0.12	26.5	3.11	5	120	2.89	1.67	14.2	14.9	3.49	3	2.91	17.5	0.00	17.5	4	0.05	1	52.80	0.61	274.1	677.9	859		330	7.87	5.0	2.0	1.69	1.07	30.5	1.69
49.30	49.29	27.8	0.94	0.12	27.8	3.39	5	121	2.90	1.67	14.9	15.7	3.78	3	2.92	18.4	0.00	18.4	4	0.04	1	53.04	0.60	274.1	698.0	919		349	8.30	5.2	1.9	1.78	1.12	30.8	1.78
49.50	49.42	29.7	1.15	0.12	29.7	3.86	5	123	2.90	1.67	16.0	16.9	4.27	3	2.93	19.6	0.00	19.6	4	0.04	1	53.58	0.60	274.1	728.6	1,015		376	8.95	5.6	1.7	1.92	1.21	31.1	1.92
49.60	49.56	29.3	1.19	0.12	29.3	4.07	4	123	2.91	1.68	15.7	16.5	4.51	3	2.95	19.3	0.00	19.3	4	0.04	1	54.95	0.60	274.1	732.4	1,027		369	8.80	5.5	1.6	1.89	1.18	31.0	1.89
49.80	49.69	29.1	1.25	0.12	29.1	4.29	4	124	2.92	1.68	15.6	16.3	4.77	3	2.97	19.1	0.00	19.1	3	0.04	1	56.19	0.60	274.1	738.4	1,047		367	8.73	5.4	1.5	1.87	1.17	30.9	1.87
49.90	49.82	31.5	1.50	0.12	31.5	4.76	4	125	2.93	1.69	17.0	17.8	5.24	3	2.96	20.7	0.00	20.7	3	0.04	1	56.03	0.59	274.0	770.6	1,155		401	9.54	5.9	1.4	2.04	1.27	31.4	2.04
49.90	49.91	36.9	1.60	0.12	36.9	4.33	4	126	2.93	1.69	20.1	21.4	4.70	3	2.88	24.4	0.00	24.4	4	0.03	1	50.55	0.58	274.0	794.8	1,237		475	11.32	7.1	1.5	2.43	1.53	32.2	2.43

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Z_b (ft)	Z_m (ft)	$C_c/(1+e_0)$(%)	$C_r/(1+e_0)$(%)	μ_{FC}	μ_{LL}	μ_{PI}	K_0	D_R (%)	$N_{60L\&B}$	$(N_{60})_{Ic}$	$(N_1)_{60I\&B}$	C_N	$(N_1)_{60csL\&R}$	$(N_1)_{60csIc}$	$(N_1)_{60csI\&B}$	$(N_1)_{60qc1ncs}$	r_d	MSF	K_σ	K_α	$CSR_{7.5}$	$CRR_{7.5}$	FS	τ_{av} (tsf)	p'(tsf)	γ_{max} (%)	G/G_0	ε_v (%)	ΔS_i	ΣS_i (in)
0.30	0.17	0.19	0.06	3.3	8.2	2.5	0.95	73.9	51.4	11.7	11.2	1.70	97.5	24.8	15.6	33.4	1.00	1.25	1.10	1.00	0.31	0.29		0.01	0.01	0.001	0.94	0.00	0.00	0.24
0.50	0.40	0.56	0.19	0.0	7.5	2.2	1.23	82.7	31.1	18.9	26.4	1.70	55.5	34.3	28.1	38.9	1.00	1.45	1.10	1.00	0.26	1.30		0.01	0.03	0.001	0.92	0.00	0.00	0.24
0.60	0.53	0.71	0.24	7.1	8.7	2.6	1.05	79.6	26.0	14.7	16.2	1.70	50.9	30.1	20.4	41.2	1.00	1.39	1.10	1.00	0.27	0.68		0.02	0.04	0.002	0.90	0.00	0.00	0.24
0.70	0.66	0.15	0.05	9.5	9.1	2.8	1.04	79.2	31.5	14.4	15.4	1.70	61.4	30.1	19.9	42.7	1.00	1.38	1.10	1.00	0.28	0.62		0.02	0.05	0.002	0.89	0.00	0.00	0.24
0.90	0.80	0.67	0.22	7.8	8.8	2.7	1.11	81.5	29.5	16.0	19.3	1.70	55.6	31.5	22.9	39.8	1.00	1.45	1.10	1.00	0.26	1.04		0.02	0.06	0.002	0.89	0.00	0.00	0.24
1.00	0.93	0.69	0.23	9.1	9.0	2.7	1.11	80.4	29.5	15.7	19.3	1.70	54.8	30.4	22.5	36.9	1.00	1.42	1.10	1.00	0.27	0.81		0.03	0.07	0.003	0.87	0.00	0.00	0.24
1.10	1.06	0.76	0.25	14.8	9.9	3.0	1.01	76.4	29.3	13.0	13.8	1.70	56.2	26.7	17.8	34.7	1.00	1.30	1.10	1.00	0.29	0.39		0.03	0.07		0.00		0.00	0.24
1.30	1.20	0.36	0.12	31.6	13.0	4.1	10.84		18.1	7.4	2.9	1.70	42.0	20.1	8.4	12.6	1.00	1.04	1.10	1.00	0.37	1.30		0.03	0.61		0.00		0.00	0.24
1.40	1.34	0.45	0.15	37.4	14.3	4.6	8.58		21.5	6.2	1.4	1.70	48.9	17.7	7.0	10.5	1.00	1.04	1.10	1.00	0.37	1.30		0.04	0.54		0.00		0.00	0.24
1.50	1.46	0.53	0.18	41.7	15.4	5.0	7.23		18.2	5.4	0.7	1.70	42.0	16.1	6.3	9.3	1.00	1.04	1.10	1.00	0.37	1.30		0.04	0.50		0.00		0.00	0.24
1.70	1.59	0.61	0.20	45.4	16.4	5.4	6.29		15.8	4.8	0.4	1.70	37.3	14.9	6.0	8.2	1.00	1.03	1.10	1.00	0.37	1.30		0.04	0.48		0.00		0.00	0.24
1.80	1.72	0.69	0.23	48.7	17.3	5.7	5.59		14.1	3.8	2.0	1.70	33.7	12.8	7.5	15.2	1.00	1.03	1.10	1.00	0.37	1.30		0.05	0.46		0.00		0.00	0.24
1.90	1.84	0.77	0.26	51.5	18.1	6.0	5.05		12.7	3.5	1.6	1.70	31.0	12.1	7.1	13.9	1.00	1.03	1.10	1.00	0.37	1.30		0.05	0.44		0.00		0.00	0.24
2.00	1.98	0.87	0.29	55.0	19.2	6.4	4.42		11.2	3.1	1.1	1.70	27.8	11.4	6.7	12.5	1.00	1.03	1.10	1.00	0.37	1.30		0.05	0.42		0.00		0.00	0.24
2.20	2.12	0.90	0.30	56.4	19.6	6.5	4.29		10.8	3.0	1.0	1.70	27.1	11.2	6.6	12.0	0.99	1.03	1.10	1.00	0.37	1.30		0.06	0.43		0.00		0.00	0.24
2.30	2.25	1.00	0.33	59.2	20.5	6.9	3.87		9.8	2.8	0.7	1.70	25.0	10.8	6.3	11.1	0.99	1.03	1.10	1.00	0.37	1.30		0.06	0.42		0.00		0.00	0.24
2.40	2.37	1.07	0.36	61.3	21.2	7.2	3.60		9.1	2.7	0.6	1.70	23.7	10.5	6.2	10.6	0.99	1.03	1.10	1.00	0.37	1.30		0.06	0.41		0.00		0.00	0.24
2.60	2.51	1.14	0.38	63.3	21.9	7.4	3.38		8.6	2.5	0.4	1.70	22.5	10.2	6.0	10.0	0.99	1.03	1.10	1.00	0.37	1.30		0.07	0.41		0.00		0.00	0.24
2.70	2.66	1.46	0.49	66.8	23.2	7.9	2.96		7.5	2.2	0.2	1.70	20.4	9.6	5.8	8.8	0.99	1.03	1.10	1.00	0.37	1.30		0.07	0.38		0.00		0.00	0.24
2.80	2.78	1.75	0.58	69.3	24.2	8.3	2.69		6.9	2.0	0.2	1.70	19.1	9.2	5.8	8.0	0.99	1.03	1.10	1.00	0.37	1.30		0.07	0.37		0.00		0.00	0.24
3.00	2.90	4.71	1.57	80.3	29.0	10.2	1.64		4.3	1.5	0.1	1.70	13.7	8.0	5.7	5.7	0.99	1.03	1.10	1.00	0.37	1.30		0.08	0.26		0.00		0.00	0.24
3.10	3.04	6.84	2.28	84.9	31.3	11.1	1.36		3.6	1.3	0.1	1.70	12.3	7.7	5.7	5.0	0.99	1.03	1.10	1.00	0.37	1.30		0.08	0.23		0.00		0.00	0.24
3.20	3.16	6.50	2.17	84.8	31.3	11.0	1.40		3.7	1.3	0.1	1.70	12.5	7.8	5.7	5.1	0.99	1.03	1.09	1.00	0.37	1.30		0.08	0.25		0.00		0.00	0.24
3.40	3.29	3.62	1.21	79.0	28.4	9.9	1.88		4.9	1.7	0.1	1.70	14.9	8.5	5.7	6.5	0.99	1.03	1.09	1.00	0.37	1.30		0.08	0.32		0.00		0.00	0.24
3.50	3.42	1.55	0.52	70.3	24.6	8.5	2.86		7.4	2.3	0.2	1.70	20.0	9.7	5.8	9.0	0.99	1.03	1.09	1.00	0.37	1.30		0.09	0.47		0.00		0.00	0.24
3.60	3.55	0.85	0.28	60.8	21.1	7.1	4.54		11.5	3.3	1.2	1.70	28.5	11.7	6.8	12.8	0.99	1.03	1.09	1.00	0.37	1.30		0.09	0.72		0.00		0.00	0.24
3.70	3.68	0.63	0.21	54.8	19.1	6.4	6.10		15.4	4.7	0.4	1.70	36.5	14.6	6.0	8.0	0.99	1.03	1.10	1.00	0.37	1.30		0.09	0.98		0.00		0.00	0.24
3.90	3.81	0.56	0.19	52.5	18.4	6.1	6.90		17.5	5.3	0.5	1.70	40.6	15.7	6.1	9.0	0.99	1.04	1.10	1.00	0.37	1.30		0.10	1.14		0.00		0.00	0.24
4.00	3.95	0.52	0.17	51.2	18.0	5.9	7.49		18.9	5.6	0.8	1.70	43.6	16.5	6.4	9.6	0.99	1.04	1.10	1.00	0.37	1.30		0.10	1.28		0.00		0.00	0.24
4.20	4.09	0.49	0.16	50.6	17.8	5.9	7.82		19.8	5.8	1.0	1.70	45.3	16.9	6.6	9.9	0.99	1.04	1.10	1.00	0.37	1.30		0.10	1.38		0.00		0.00	0.24
4.30	4.23	0.48	0.16	50.5	17.8	5.9	8.00		20.2	5.9	1.1	1.70	46.3	17.1	6.7	10.1	0.99	1.04	1.10	1.00	0.37	1.30		0.11	1.46		0.00		0.00	0.24
4.40	4.36	0.49	0.16	51.2	18.0	6.0	7.88		20.0	5.8	1.0	1.70	45.7	16.9	6.6	9.9	0.99	1.04	1.09	1.00	0.37	1.30		0.11	1.48		0.00		0.00	0.24
4.60	4.48	0.50	0.17	52.2	18.3	6.1	7.45		19.4	5.7	0.9	1.70	44.6	16.7	6.5	9.7	0.99	1.04	1.09	1.00	0.37	1.30		0.11	1.44		0.00		0.00	0.24
4.70	4.62	0.51	0.17	52.8	18.5	6.1	7.15		19.2	5.7	0.9	1.70	44.2	16.6	6.5	9.7	0.99	1.04	1.09	1.00	0.37	1.30		0.12	1.43		0.00		0.00	0.24
4.80	4.74	0.50	0.17	52.9	18.5	6.1	7.03		19.4	5.7	0.9	1.70	44.6	16.6	6.5	9.7	0.98	1.04	1.09	1.00	0.37	1.30		0.12	1.45		0.00		0.00	0.24
4.90	4.86	0.50	0.17	53.1	18.6	6.2	6.87		19.4	5.8	0.9	1.70	44.7	16.7	6.5	9.8	0.98	1.04	1.09	1.00	0.37	1.30		0.12	1.45		0.00		0.00	0.24
5.10	5.00	0.51	0.17	53.5	18.7	6.2	6.66		19.4	5.8	0.9	1.70	44.6	16.8	6.5	9.8	0.98	1.04	1.08	1.00	0.37	1.30		0.13	1.45		0.00		0.00	0.24
5.20	5.14	0.51	0.17	54.0	18.8	6.3	6.44		19.3	5.8	0.9	1.70	44.4	16.8	6.5	9.8	0.98	1.04	1.08	1.00	0.37	1.30		0.13	1.45		0.00		0.00	0.24
5.30	5.27	0.51	0.17	54.3	18.9	6.3	6.28		19.3	5.8	0.9	1.70	44.4	16.8	6.5	9.8	0.98	1.04	1.08	1.00	0.37	1.30		0.13	1.45		0.00		0.00	0.24
5.50	5.40	0.51	0.17	54.7	19.1	6.4	6.10		19.2	5.2	3.0	1.70	44.2	15.6	8.6	16.6	0.98	1.04	1.08	1.00	0.37	1.30		0.14	1.44		0.00		0.00	0.24
5.60	5.53	0.51	0.17	55.2	19.2	6.4	5.91		19.1	5.2	2.9	1.70	43.9	15.6	8.4	16.1	0.98	1.04	1.08	1.00	0.37	1.30		0.14	1.44		0.00		0.00	0.24
5.70	5.66	0.52	0.17	55.7	19.4	6.5	5.73		18.9	5.2	2.8	1.70	43.6	15.6	8.3	15.7	0.98	1.04	1.07	1.00	0.37	1.30		0.14	1.43		0.00		0.00	0.24
5.80	5.79	0.52	0.17	56.0	19.5	6.5	5.59		18.9	5.2	2.7	1.70	43.6	15.6	8.3	15.4	0.98	1.04	1.07	1.00	0.37	1.30		0.15	1.43		0.00		0.00	0.24
6.00	5.93	0.51	0.17	55.9	19.4	6.5	5.56		19.3	5.3	2.7	1.70	44.3	15.8	8.3	15.3	0.98	1.04	1.07	1.00	0.37	1.30		0.15	1.46		0.00		0.00	0.24
6.10	6.06	0.51	0.17	55.9	19.4	6.5	5.49		19.4	5.3	2.7	1.69	44.5	15.9	8.3	15.1	0.98	1.04	1.07	1.00	0.37	1.30		0.15	1.47		0.00		0.00	0.24
6.30	6.18	0.51	0.17	56.2	19.5	6.5	5.36		19.4	5.3	2.6	1.68	44.1	15.7	8.2	14.7	0.98	1.04	1.07	1.00	0.37	1.30		0.16	1.47		0.00		0.00	0.24
6.40	6.33	0.52	0.17	57.1	19.8	6.6	5.12		19.0	5.2	2.4	1.66	42.8	15.4	7.9	14.1	0.98	1.04	1.07	1.00	0.37	1.30		0.16	1.44		0.00		0.00	0.24
6.50	6.46	0.52	0.17	57.4	19.9	6.7	5.00		18.9	5.2	2.3	1.64	42.3	15.3	7.9	13.8	0.98	1.04	1.07	1.00	0.37	1.30		0.16	1.44		0.00		0.00	0.24
6.60	6.58	0.52	0.17	57.5	20.0	6.7	4.94		19.0	5.3	2.3	1.63	42.1	15.3	7.8	13.7	0.98	1.04	1.06	1.00	0.37	1.30		0.16	1.45		0.00		0.00	0.24
6.80	6.72	0.51	0.17	57.6	20.0	6.7	4.88		19.2	5.3	2.3	1.61	42.1	15.3	7.8	13.6	0.98	1.04	1.06	1.00	0.37	1.30		0.17	1.47		0.00		0.00	0.24
6.90	6.84	0.51	0.17	57.5	20.0	6.7	4.85		19.4	5.4	2.3	1.59	42.2	15.4	7.8	13.5	0.98	1.04	1.06	1.00	0.37	1.30		0.17	1.48		0.00		0.00	0.24
7.00	6.97	0.50	0.17	57.3	19.9	6.7	4.86		19.9	5.5	2.3	1.58	42.6	15.5	7.9	13.5	0.98	1.04	1.06	1.00	0.37	1.30		0.17	1.52		0.00		0.00	0.24
7.20	7.11	0.49	0.16	57.2	19.9	6.6	4.83		20.1	5.6	2.3	1.56	42.8	15.4	7.9	13.3	0.97	1.04	1.06	1.00	0.37	1.30		0.18	1.54		0.00		0.00	0.24
7.30	7.23	0.50	0.17	57.8	20.0	6.7	4.68		19.9	5.5	2.2	1.55	42.0	15.2	7.7	13.0	0.97	1.04	1.06	1.00	0.37	1.30		0.18	1.52		0.00		0.00	0.24
7.40	7.35	0.51	0.17	58.4	20.3	6.8	4.52		19.5	5.4	2.0	1.54	41.0	15.0	7.6	12.6	0.97	1.04	1.06	1.00	0.37	1.30		0.18	1.50		0.00		0.00	0.24
7.60	7.48	0.53	0.18	59.5	20.6	6.9	4.28		18.8	5.3	1.7	1.52	39.4	14.7	7.3	12.1	0.97	1.04	1.06	1.00	0.37	1.30		0.19	1.45		0.00		0.00	0.24
7.70	7.62	0.55	0.18	60.6	21.0	7.1	4.04		18.1	5.2	1.5	1.51	37.8	14.4	7.1	11.5	0.97	1.04	1.05	1.00	0.38	1.30		0.19	1.40		0.00		0.00	0.24
7.80	7.76	0.57	0.19	61.8	21.4	7.2	3.80		17.4	5.0	1.2	1.50	36.2	14.0	6.8	11.0	0.97	1.04	1.05	1.00	0.38	1.30		0.19	1.35		0.00		0.00	0.24
8.00	7.90	0.60	0.20	63.1	21.9	7.4	3.56		16.6	4.9	1.0	1.48	34.6	13.7	6.6	10.5	0.97	1.03	1.05	1.00	0.38	1.30		0.20	1.30		0.00		0.00	0.24
8.10	8.02	0.61	0.20	63.7	22.1	7.5	3.46		16.4	4.8	0.9	1.47	33.9	13.5	6.5	10.2	0.97	1.03	1.05	1.00	0.38	1.30		0.20	1.29		0.00		0.00	0.24
8.20	8.15	0.62	0.21	64.4	22.3	7.6	3.33		16.0	4.7	0.8	1.46	33.1	13.3	6.4	9.8	0.97	1.03	1.05	1.00	0.38	1.30		0.20	1.27		0.00		0.00	0.24
8.30	8.28	0.63	0.21	65.1	22.6	7.7	3.21		15.7	4.7	0.7	1.45	32.4	13.1	6.3	9.5	0.97	1.03	1.05	1.00	0.38	1.30		0.21	1.24		0.00		0.00	0.24
8.50	8.41	0.66	0.22	66.3	23.1	7.9	3.02		15.0	4.5	0.5	1.44	31.0	12.8	6.1	9.0	0.97	1.03	1.04	1.00	0.38	1.30		0.21	1.20		0.00		0.00	0.24
8.60	8.54	0.69	0.23	67.4	23.5	8.0	2.87		14.5	4.4	0.4	1.43	29.9	12.5	6.0	8.7	0.97	1.03	1.04	1.00	0.38	1.30		0.21	1.16		0.00		0.00	0.24
8.80	8.68	0.68	0.23	67.3	23.4	8.0	2.86		14.7	4.5	0.4	1.42	30.0	12.6	6.0	8.6	0.97	1.03	1.04	1.00	0.38	1.30		0.21	1.18		0.00		0.00	0.24
8.90	8.81	0.65	0.22	66.3	23.1	7.9	2.96		15.4	4.6	0.5	1.41	31.1	12.8	6.1	8.8	0.97	1.03	1.04	1.00	0.38	1.30		0.22	1.23		0.00		0.00	0.24
9.00	8.93	0.59	0.20	64.5	22.4	7.6	3.19		16.8	4.9	0.7	1.40	33.2	13.2	6.3	9.3	0.97	1.03	1.04	1.00	0.38	1.30		0.22	1.33		0.00		0.00	0.24
9.10	9.07	0.52	0.17	61.7	21.4	7.2	3.58		19.1	5.4	1.1	1.39	36.8	14.0	6.7	10.1	0.97	1.04	1.04	1.00	0.38	1.30		0.22	1.50		0.00		0.00	0.24
9.30	9.20	0.48	0.16	59.8	20.7	7.0	3.85		13.9	5.8	1.4	1.38	27.9	14.5	7.0	10.7	0.97	1.04	1.04	1.00	0.38	1.30		0.23	1.62		0.00		0.00	0.24

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Z_b (ft)	Z_m (ft)	$C_c/(1+e_0)$(%)	$C_r/(1+e_0)$(%)	μ_{FC}	μ_{LL}	μ_{PI}	K_0	D_R (%)	$N_{60L\&B}$	$(N_{60})_{Ic}$	$(N_1)_{60I\&B}$	C_N	$(N_1)_{60csL\&R}$	$(N_1)_{60csIc}$	$(N_1)_{60csI\&B}$	$(N_1)_{60qc1ncs}$	r_d	MSF	K_σ	K_α	$CSR_{7.5}$	$CRR_{7.5}$	FS	τ_{av} (tsf)	p'(tsf)	γ_{max} (%)	G/G_0	ε_v (%)	ΔS_i	ΣS_i (in)
9.40	9.32	0.48	0.16	59.5	20.6	6.9	3.89		14.2	5.9	1.5	1.37	28.3	14.8	7.0	10.8	0.97	1.04	1.04	1.00	0.38	1.30		0.23	1.65		0.00		0.00	0.24
9.50	9.46	0.48	0.16	59.8	20.7	7.0	3.82		21.2	6.0	1.4	1.36	39.6	14.8	7.0	10.8	0.96	1.04	1.04	1.00	0.38	1.30		0.23	1.65		0.00		0.00	0.24
9.70	9.59	0.48	0.16	59.8	20.7	7.0	3.79		21.4	6.1	1.4	1.35	39.6	14.8	6.9	10.8	0.96	1.04	1.04	1.00	0.38	1.30		0.24	1.67		0.00		0.00	0.24
9.80	9.72	0.49	0.16	59.9	20.8	7.0	3.76		21.5	6.1	1.3	1.34	39.5	14.8	6.9	10.7	0.96	1.04	1.04	1.00	0.38	1.30		0.24	1.67		0.00		0.00	0.24
9.90	9.87	0.50	0.17	60.7	21.0	7.1	3.61		21.0	6.0	1.1	1.33	38.4	14.6	6.7	10.4	0.96	1.04	1.04	1.00	0.38	1.30		0.24	1.64		0.00		0.00	0.24
10.00	9.97	0.52	0.17	61.5	21.3	7.2	3.47		20.4	5.9	1.0	1.32	37.3	14.4	6.6	10.0	0.96	1.04	1.04	1.00	0.38	1.30		0.25	1.60		0.00		0.00	0.24
10.10	10.06	0.54	0.18	62.2	21.6	7.3	3.35		19.8	5.8	0.9	1.32	36.4	14.1	6.5	9.8	0.96	1.04	1.04	1.00	0.38	1.30	2.00	0.25	1.56				0.00	0.24
10.30	10.21	0.57	0.19	63.6	22.1	7.5	3.14		18.8	5.6	0.6	1.31	34.6	13.8	6.2	9.3	0.96	1.03	1.03	1.00	0.38	1.30	2.00	0.25	1.49				0.00	0.24
10.40	10.33	0.61	0.20	65.4	22.7	7.7	2.91		17.5	5.3	0.4	1.31	32.5	13.3	6.0	8.8	0.96	1.03	1.03	1.00	0.38	1.30	2.00	0.25	1.40				0.00	0.24
10.50	10.45	0.66	0.22	67.1	23.4	8.0	2.70		16.4	5.0	0.4	1.31	30.7	12.9	6.0	8.3	0.96	1.03	1.03	1.00	0.39	1.30	2.00	0.26	1.32				0.00	0.24
10.60	10.58	0.70	0.23	68.8	24.0	8.2	2.50		15.3	4.8	0.4	1.30	28.9	12.5	6.0	7.8	0.96	1.03	1.03	1.00	0.39	1.30	2.00	0.26	1.25				0.00	0.24
10.80	10.70	0.76	0.25	70.8	24.8	8.5	2.29		14.2	4.5	0.3	1.30	27.1	12.1	6.0	7.3	0.96	1.03	1.03	1.00	0.39	1.30	2.00	0.26	1.17				0.00	0.24
10.90	10.85	0.84	0.28	73.2	25.8	8.9	2.06		12.9	4.3	0.3	1.29	25.0	11.6	5.9	6.8	0.96	1.03	1.03	1.00	0.40	1.30		0.27	1.08				0.00	0.24
11.00	10.98	1.25	0.42	82.4	30.0	10.6	1.39		8.9	3.4	0.2	1.29	18.8	10.3	5.8	5.3	0.96	1.03	1.03	1.00	0.40	1.30		0.27	0.80				0.00	0.24
11.20	11.10	1.04	0.35	78.4	28.1	9.8	1.64		10.5	3.7	0.2	1.29	21.3	10.7	5.8	5.7	0.96	1.03	1.03	1.00	0.40	1.30		0.27	0.91				0.00	0.24
11.30	11.23	1.15	0.38	80.7	29.2	10.2	1.48		9.6	3.4	0.2	1.28	19.8	10.3	5.8	5.3	0.96	1.03	1.03	1.00	0.40	1.30		0.27	0.85				0.00	0.24
11.40	11.37	1.27	0.42	82.2	29.9	10.5	1.39		9.1	3.3	0.2	1.28	19.0	10.1	5.8	5.0	0.96	1.03	1.03	1.00	0.40	1.30		0.28	0.81				0.00	0.24
11.60	11.51	1.39	0.46	83.3	30.5	10.7	1.32		8.7	3.2	0.2	1.28	18.4	9.9	5.8	4.8	0.95	1.03	1.03	1.00	0.41	1.30		0.28	0.79				0.00	0.24
11.70	11.64	1.51	0.50	84.2	31.0	10.9	1.27		8.5	3.1	0.2	1.27	17.9	9.8	5.8	4.7	0.95	1.03	1.03	1.00	0.41	1.30		0.28	0.77				0.00	0.24
11.80	11.77	1.46	0.49	83.8	30.7	10.8	1.29		8.6	3.2	0.2	1.27	18.2	9.8	5.8	4.7	0.95	1.03	1.03	1.00	0.41	1.30		0.29	0.78				0.00	0.24
12.00	11.90	1.19	0.40	81.1	29.4	10.3	1.44		9.7	3.4	0.2	1.27	19.7	10.1	5.8	5.0	0.95	1.03	1.03	1.00	0.41	1.30		0.29	0.85				0.00	0.24
12.10	12.03	1.06	0.35	78.4	28.1	9.8	1.62		10.8	3.6	0.2	1.26	21.4	10.5	5.9	5.4	0.95	1.03	1.03	1.00	0.41	1.30		0.29	0.94				0.00	0.24
12.20	12.15	1.02	0.34	77.3	27.6	9.6	1.69		11.3	3.7	0.3	1.26	22.1	10.7	5.9	5.6	0.95	1.03	1.03	1.00	0.42	1.30		0.29	0.97				0.00	0.24
12.30	12.28	0.99	0.33	76.6	27.3	9.5	1.74		11.7	3.8	0.3	1.26	22.6	10.8	5.9	5.7	0.95	1.03	1.03	1.00	0.42	1.30		0.30	1.00				0.00	0.24
12.50	12.41	0.95	0.32	75.5	26.8	9.3	1.82		12.3	4.0	0.3	1.25	23.5	11.0	5.9	5.9	0.95	1.03	1.03	1.00	0.42	1.04	2.00	0.30	1.04				0.00	0.24
12.60	12.54	0.91	0.30	74.3	26.3	9.1	1.91		12.9	4.2	0.3	1.25	24.4	11.2	5.9	6.1	0.95	1.03	1.02	1.00	0.42	1.09	2.00	0.30	1.09				0.00	0.24
12.70	12.67	0.87	0.29	73.4	25.9	8.9	1.99		13.5	4.3	0.3	1.25	25.2	11.4	5.9	6.3	0.95	1.03	1.02	1.00	0.42	1.14	2.00	0.31	1.13				0.00	0.24
12.90	12.81	0.88	0.29	73.4	25.9	8.9	1.98		13.5	4.3	0.3	1.24	25.2	11.4	5.9	6.3	0.95	1.03	1.02	1.00	0.43	1.13	2.00	0.31	1.13				0.00	0.24
13.00	12.95	0.88	0.29	73.5	25.9	9.0	1.97		13.5	4.3	0.3	1.24	25.1	11.4	5.9	6.2	0.95	1.03	1.02	1.00	0.43	1.13	2.00	0.31	1.13				0.00	0.24
13.10	13.08	0.87	0.29	73.2	25.8	8.9	1.99		13.7	4.3	0.3	1.24	25.3	11.4	5.9	6.2	0.95	1.03	1.02	1.00	0.43	1.14	2.00	0.31	1.15				0.00	0.24
13.30	13.21	0.86	0.29	72.8	25.7	8.9	2.02		14.0	4.4	0.3	1.23	25.7	11.5	5.9	6.3	0.95	1.03	1.02	1.00	0.43	1.15	2.00	0.32	1.17				0.00	0.24
13.40	13.34	0.89	0.30	73.5	26.0	9.0	1.95		13.6	4.3	0.3	1.23	25.1	11.3	5.9	6.1	0.95	1.03	1.02	1.00	0.43	1.12	2.00	0.32	1.14				0.00	0.24
13.50	13.47	0.91	0.30	74.2	26.3	9.1	1.89		13.3	4.3	0.3	1.23	24.6	11.3	5.9	6.1	0.94	1.03	1.02	1.00	0.43	1.08	2.00	0.32	1.12				0.00	0.24
13.70	13.59	0.93	0.31	74.7	26.5	9.2	1.85		13.1	4.2	0.3	1.22	24.2	11.2	5.9	6.0	0.94	1.03	1.02	1.00	0.44	1.06	2.00	0.32	1.10				0.00	0.24
13.80	13.74	0.94	0.31	75.0	26.6	9.2	1.82		13.0	4.2	0.3	1.22	24.0	11.2	5.9	5.9	0.94	1.03	1.02	1.00	0.44	1.04	2.00	0.33	1.10				0.00	0.24
13.90	13.86	0.95	0.32	75.2	26.7	9.3	1.81		12.9	4.2	0.3	1.22	23.9	11.2	5.9	5.9	0.94	1.03	1.02	1.00	0.44	1.03	2.00	0.33	1.10				0.00	0.24
14.10	13.98	1.00	0.33	76.4	27.2	9.5	1.71		12.3	4.1	0.3	1.22	23.0	11.0	5.9	5.7	0.94	1.03	1.02	1.00	0.44	1.30		0.33	1.05				0.00	0.24
14.20	14.12	0.97	0.32	75.7	26.9	9.3	1.76		12.7	4.3	0.3	1.21	23.5	11.2	5.9	5.9	0.94	1.03	1.02	1.00	0.44	1.30		0.34	1.08				0.00	0.24
14.30	14.26	0.86	0.29	72.7	25.6	8.8	1.99		14.4	4.6	0.3	1.21	25.9	11.7	5.9	6.3	0.94	1.03	1.02	1.00	0.44	1.14	2.00	0.34	1.20				0.00	0.24
14.50	14.40	0.92	0.31	74.1	26.2	9.1	1.87		13.7	4.4	0.3	1.21	24.8	11.4	5.9	6.0	0.94	1.03	1.02	1.00	0.45	1.07	2.00	0.34	1.15				0.00	0.24
14.60	14.52	1.15	0.38	79.9	28.8	10.1	1.46		10.9	3.8	0.2	1.20	20.7	10.6	5.8	5.2	0.94	1.03	1.02	1.00	0.45	1.30		0.34	0.96				0.00	0.24
14.70	14.64	1.46	0.49	82.9	30.3	10.7	1.28		9.7	3.5	0.2	1.20	19.0	10.0	5.8	4.6	0.94	1.03	1.02	1.00	0.45	1.30		0.35	0.87				0.00	0.24
14.90	14.79	1.66	0.55	84.4	31.1	11.0	1.20		9.2	3.3	0.2	1.20	18.2	9.8	5.8	4.3	0.94	1.03	1.02	1.00	0.45	1.30		0.35	0.84				0.00	0.24
15.00	14.91	1.72	0.57	84.8	31.2	11.0	1.18		9.1	3.3	0.2	1.20	18.1	9.7	5.8	4.3	0.94	1.03	1.02	1.00	0.45	1.30		0.35	0.83				0.00	0.24
15.10	15.04	1.77	0.59	85.1	31.4	11.1	1.16		9.0	3.3	0.2	1.19	17.9	9.7	5.8	4.2	0.94	1.03	1.02	1.00	0.45	1.30		0.36	0.83				0.00	0.24
15.30	15.18	1.87	0.62	85.7	31.7	11.2	1.13		8.8	3.2	0.2	1.19	17.6	9.6	5.8	4.1	0.94	1.03	1.02	1.00	0.45	1.30		0.36	0.81				0.00	0.24
15.40	15.30	1.91	0.64	86.0	31.9	11.3	1.12		8.8	3.2	0.2	1.19	17.5	9.5	5.8	4.0	0.94	1.03	1.02	1.00	0.46	1.30		0.36	0.81				0.00	0.24
15.50	15.43	2.17	0.72	87.5	32.6	11.6	1.05		8.3	3.1	0.2	1.18	16.8	9.3	5.8	3.8	0.93	1.03	1.02	1.00	0.46	1.30		0.36	0.78				0.00	0.24
15.60	15.56	2.50	0.83	89.2	33.6	12.0	0.97		7.8	2.9	0.2	1.18	16.1	9.2	5.7	3.7	0.93	1.03	1.02	1.00	0.46	1.30		0.37	0.74				0.00	0.24
15.80	15.69	2.80	0.93	90.6	34.4	12.3	0.92		7.4	2.9	0.2	1.18	15.5	9.0	5.7	3.5	0.93	1.03	1.02	1.00	0.46	1.30		0.37	0.72				0.00	0.24
15.90	15.83	2.76	0.92	90.3	34.2	12.2	0.92		7.5	2.9	0.2	1.18	15.7	9.1	5.7	3.5	0.93	1.03	1.02	1.00	0.46	1.30		0.37	0.73				0.00	0.24
16.00	15.96	2.78	0.93	90.4	34.3	12.2	0.92		7.5	2.9	0.2	1.17	15.6	9.1	5.7	3.5	0.93	1.03	1.02	1.00	0.46	1.30		0.37	0.73				0.00	0.24
16.20	16.09	2.71	0.90	90.0	34.1	12.2	0.93		7.7	2.9	0.2	1.17	15.8	9.1	5.7	3.5	0.93	1.03	1.02	1.00	0.46	1.30		0.38	0.74				0.00	0.24
16.30	16.23	2.81	0.94	90.4	34.3	12.3	0.92		7.6	2.9	0.2	1.17	15.6	9.1	5.7	3.5	0.93	1.03	1.02	1.00	0.47	1.30		0.38	0.73				0.00	0.24
16.40	16.37	2.87	0.96	90.7	34.4	12.3	0.91		7.5	2.9	0.2	1.17	15.6	9.0	5.7	3.4	0.93	1.03	1.02	1.00	0.47	1.30		0.38	0.73				0.00	0.24
16.50	16.49	2.91	0.97	90.8	34.5	12.3	0.90		7.5	2.9	0.2	1.16	15.5	9.0	5.7	3.4	0.93	1.03	1.02	1.00	0.47	1.30		0.38	0.73				0.00	0.24
16.70	16.61	2.94	0.98	90.9	34.5	12.3	0.90		7.5	2.8	0.2	1.16	15.5	9.0	5.7	3.4	0.93	1.03	1.02	1.00	0.47	1.30		0.39	0.73				0.00	0.24
16.80	16.76	2.97	0.99	91.0	34.6	12.4	0.89		7.5	2.8	0.2	1.16	15.5	8.9	5.7	3.3	0.93	1.03	1.02	1.00	0.47	1.30		0.39	0.73				0.00	0.24
16.90	16.89	3.00	1.00	91.0	34.6	12.4	0.89		7.5	2.8	0.2	1.16	15.5	8.9	5.7	3.3	0.93	1.03	1.02	1.00	0.47	1.30		0.39	0.73				0.00	0.24
17.10	17.00	2.91	0.97	90.6	34.4	12.3	0.90		7.7	2.9	0.2	1.16	15.6	9.0	5.7	3.3	0.93	1.03	1.02	1.00	0.47	1.30		0.39	0.74				0.00	0.24
17.20	17.14	3.88	1.29	94.2	36.5	13.1	0.78		6.8	2.7	0.1	1.15	14.4	8.7	5.7	3.1	0.93	1.03	1.02	1.00	0.48	1.30		0.40	0.68				0.00	0.24
17.30	17.27	4.52	1.51	96.0	37.6	13.6	0.72		6.3	2.6	0.1	1.15	13.8	8.5	5.7	2.9	0.92	1.03	1.02	1.00	0.48	1.30		0.40	0.65				0.00	0.24
17.50	17.40	5.17	1.72	97.6	38.6	14.0	0.67		6.0	2.4	0.1	1.15	13.3	8.3	5.7	2.7	0.92	1.03	1.02	1.00	0.48	1.30		0.40	0.63				0.00	0.24
17.60	17.53	5.94	1.98	99.2	39.6	14.4	0.62		5.7	2.3	0.1	1.15	12.8	8.2	5.7	2.5	0.92	1.03	1.02	1.00	0.48	1.30		0.40	0.60				0.00	0.24
17.80	17.68	6.26	2.09	99.8	40.0	14.6	0.61		5.6	2.3	0.1	1.14	12.7	8.1	5.7	2.5	0.92	1.03	1.01	1.00	0.48	1.30		0.41	0.60				0.00	0.24
17.90	17.80	6.08	2.03	99.4	39.7	14.5	0.62		5.7	2.3	0.1	1.14	12.8	8.1	5.7	2.5	0.92	1.03	1.01	1.00	0.48	1.30		0.41	0.60				0.00	0.24
18.00	17.92	4.96	1.65	96.9	38.1	13.8	0.69		6.3	2.4	0.1	1.14	13.6	8.3	5.7	2.6	0.92	1.03	1.01	1.00	0.48	1.30		0.41	0.64				0.00	0.24
18.10	18.05	4.32	1.44	95.1	37.0	13.4	0.74		6.7	2.5	0.1	1.14	14.1	8.4	5.7	2.8	0.92	1.03	1.01	1.00	0.48	1.30		0.41	0.67				0.00	0.24
18.20	18.18	3.47	1.16	92.3	35.4	12.7	0.83		4.9	2.6	0.1	1.14	11.7	8.6	5.7	2.9	0.92	1.03	1.01	1.00	0.48	1.30		0.42	0.73				0.00	0.24

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Z_b (ft)	Z_m (ft)	$C_c/(1+e_0)$(%)	$C_r/(1+e_0)$(%)	μ_{FC}	μ_{LL}	μ_{PI}	K_0	D_R (%)	$N_{60L\&B}$	$(N_{60})_{Ic}$	$(N_1)_{60I\&B}$	C_N	$(N_1)_{60csL\&R}$	$(N_1)_{60csIc}$	$(N_1)_{60csI\&B}$	$(N_1)_{60qc1ncs}$	r_d	MSF	K_σ	K_α	$CSR_{7.5}$	$CRR_{7.5}$	FS	τ_{av} (tsf)	p'(tsf)	γ_{max} (%)	G/G_0	ε_v (%)	ΔS_i	ΣS_i (in)
18.40	18.31	3.00	1.00	90.5	34.3	12.3	0.90		5.3	2.7	0.2	1.13	12.2	8.7	5.8	3.0	0.92	1.03	1.01	1.00	0.49	1.30		0.42	0.77				0.00	0.24
18.50	18.46	3.79	1.26	93.4	36.0	12.9	0.79		4.8	2.6	0.1	1.13	11.5	8.5	5.7	2.9	0.92	1.03	1.01	1.00	0.49	1.30		0.42	0.71				0.00	0.24
18.60	18.59	3.58	1.19	92.8	35.6	12.8	0.81		7.4	2.7	0.1	1.13	15.0	8.7	5.7	3.0	0.92	1.03	1.01	1.00	0.49	1.30		0.42	0.72				0.00	0.24
18.80	18.72	2.54	0.85	88.5	33.2	11.8	0.97		5.8	3.0	0.2	1.13	12.8	9.0	5.8	3.3	0.92	1.03	1.01	1.00	0.49	1.30		0.43	0.82				0.00	0.24
18.90	18.86	0.96	0.32	73.8	26.1	9.0	1.80		7.6	4.1	0.3	1.13	15.3	10.6	5.8	4.9	0.92	1.03	1.01	1.00	0.49	1.03	2.00	0.43	1.28				0.00	0.24
19.00	18.99	2.50	0.83	88.2	33.1	11.8	0.98		5.9	3.0	0.2	1.12	12.9	9.0	5.8	3.3	0.91	1.03	1.01	1.00	0.49	1.30		0.43	0.83				0.00	0.24
19.20	19.11	2.86	0.95	89.9	34.0	12.1	0.91		5.5	2.9	0.2	1.12	12.4	8.9	5.8	3.2	0.91	1.03	1.01	1.00	0.49	1.30		0.43	0.79				0.00	0.24
19.30	19.25	3.08	1.03	90.7	34.4	12.3	0.88		5.4	2.8	0.2	1.12	12.2	8.8	5.7	3.1	0.91	1.03	1.01	1.00	0.49	1.30		0.44	0.78				0.00	0.24
19.40	19.37	3.31	1.10	91.6	34.9	12.5	0.85		5.2	2.8	0.1	1.12	12.0	8.7	5.7	3.0	0.91	1.03	1.01	1.00	0.49	1.30		0.44	0.76				0.00	0.24
19.60	19.50	3.29	1.10	91.5	34.9	12.5	0.85		5.2	2.8	0.1	1.12	12.0	8.7	5.7	3.0	0.91	1.03	1.01	1.00	0.50	1.30		0.44	0.76				0.00	0.24
19.70	19.64	3.01	1.00	90.3	34.2	12.2	0.89		5.5	2.8	0.2	1.11	12.3	8.8	5.8	3.0	0.91	1.03	1.01	1.00	0.50	1.30		0.44	0.79				0.00	0.24
19.80	19.78	3.31	1.10	91.5	34.9	12.5	0.85		5.3	2.8	0.1	1.11	12.0	8.7	5.7	3.0	0.91	1.03	1.01	1.00	0.50	1.30		0.44	0.77				0.00	0.24
20.00	19.91	3.40	1.13	91.9	35.1	12.6	0.83		5.2	2.9	0.1	1.11	11.9	8.8	5.7	3.0	0.91	1.03	1.01	1.00	0.50	1.30		0.45	0.76				0.00	0.24
20.10	20.04	3.25	1.08	91.3	34.8	12.5	0.85		8.0	3.0	0.1	1.11	15.6	8.9	5.7	3.1	0.91	1.03	1.01	1.00	0.50	1.30		0.45	0.78				0.00	0.24
20.20	20.17	3.69	1.23	92.9	35.7	12.8	0.80		7.6	2.9	0.1	1.11	15.1	8.8	5.7	3.0	0.91	1.03	1.01	1.00	0.50	1.30		0.45	0.75				0.00	0.24
20.40	20.30	4.11	1.37	94.2	36.5	13.1	0.75		7.3	2.8	0.1	1.10	14.6	8.7	5.7	2.9	0.91	1.03	1.01	1.00	0.50	1.30		0.45	0.73				0.00	0.24
20.50	20.43	4.48	1.49	95.2	37.1	13.4	0.72		7.0	2.7	0.1	1.10	14.3	8.6	5.7	2.8	0.91	1.03	1.01	1.00	0.50	1.30		0.46	0.71				0.00	0.24
20.60	20.55	4.59	1.53	95.4	37.2	13.4	0.71		7.0	2.7	0.1	1.10	14.2	8.5	5.7	2.7	0.91	1.03	1.01	1.00	0.50	1.30		0.46	0.71				0.00	0.24
20.70	20.67	4.63	1.54	95.5	37.3	13.4	0.71		7.0	2.7	0.1	1.10	14.2	8.5	5.7	2.7	0.90	1.03	1.01	1.00	0.50	1.30		0.46	0.71				0.00	0.24
20.90	20.81	4.54	1.51	95.2	37.1	13.4	0.72		4.7	2.7	0.1	1.10	11.2	8.5	5.7	2.7	0.90	1.03	1.01	1.00	0.50	1.30		0.46	0.71				0.00	0.24
21.00	20.94	5.04	1.68	96.4	37.8	13.7	0.68		4.5	2.5	0.1	1.10	11.0	8.3	5.7	2.5	0.90	1.03	1.01	1.00	0.51	1.30		0.47	0.70				0.00	0.24
21.20	21.08	7.33	2.44	100.0	40.7	14.9	0.56		3.9	2.3	0.1	1.09	10.1	8.0	5.7	2.2	0.90	1.03	1.01	1.00	0.51	1.30		0.47	0.63				0.00	0.24
21.30	21.22	8.86	2.95	100.0	42.3	15.5	0.51		3.6	2.1	0.1	1.09	9.7	7.8	5.7	2.0	0.90	1.03	1.01	1.00	0.51	1.30		0.47	0.60				0.00	0.24
21.40	21.34	9.32	3.11	100.0	42.7	15.7	0.50		3.6	2.1	0.1	1.09	9.6	7.8	5.7	2.0	0.90	1.03	1.01	1.00	0.51	1.30		0.47	0.59				0.00	0.24
21.60	21.48	9.01	3.00	100.0	42.4	15.5	0.51		3.6	2.1	0.1	1.09	9.7	7.8	5.7	2.0	0.90	1.03	1.01	1.00	0.51	1.30		0.47	0.60				0.00	0.24
21.70	21.60	8.03	2.68	100.0	41.4	15.2	0.54		3.8	2.2	0.1	1.09	10.0	7.9	5.7	2.1	0.90	1.03	1.01	1.00	0.51	1.30		0.48	0.62				0.00	0.24
21.80	21.73	6.95	2.32	100.0	40.2	14.7	0.58		4.0	2.3	0.1	1.09	10.3	8.0	5.7	2.2	0.90	1.03	1.01	1.00	0.51	1.30		0.48	0.65				0.00	0.24
21.90	21.87	6.18	2.06	98.7	39.3	14.3	0.61		4.3	2.4	0.1	1.08	10.5	8.1	5.7	2.3	0.90	1.03	1.01	1.00	0.51	1.30		0.48	0.67				0.00	0.24
22.00	21.99	5.92	1.97	98.2	38.9	14.1	0.63		4.4	2.4	0.1	1.08	10.7	8.1	5.7	2.3	0.90	1.03	1.01	1.00	0.51	1.30		0.48	0.68				0.00	0.24
22.20	22.12	5.59	1.86	97.5	38.5	13.9	0.65		4.5	2.5	0.1	1.08	10.8	8.2	5.7	2.4	0.90	1.03	1.01	1.00	0.51	1.30		0.48	0.69				0.00	0.24
22.30	22.26	3.87	1.29	92.9	35.7	12.8	0.78		3.9	2.7	0.1	1.08	10.1	8.5	5.7	2.6	0.90	1.03	1.01	1.00	0.51	1.30		0.49	0.78				0.00	0.24
22.50	22.39	2.94	0.98	89.5	33.8	12.0	0.90		4.5	2.9	0.2	1.08	10.8	8.7	5.8	2.9	0.89	1.03	1.01	1.00	0.51	0.51	1.00	0.49	0.85				0.00	0.24
22.60	22.52	2.15	0.72	85.7	31.7	11.2	1.06		5.2	3.1	0.2	1.08	11.7	9.0	5.8	3.2	0.89	1.03	1.01	1.00	0.52	0.60	1.17	0.49	0.95				0.00	0.24
22.70	22.64	1.58	0.53	81.9	29.8	10.5	1.23		6.0	3.5	0.2	1.07	12.7	9.4	5.8	3.6	0.89	1.03	1.01	1.00	0.52	0.71	1.37	0.49	1.06				0.00	0.24
22.90	22.78	1.16	0.39	78.0	28.0	9.8	1.45		6.9	3.9	0.2	1.07	13.9	10.1	5.8	4.1	0.89	1.03	1.01	1.00	0.52	0.83	1.60	0.50	1.20				0.00	0.24
23.00	22.91	3.06	1.02	90.0	34.1	12.2	0.88		5.9	3.1	0.2	1.07	12.6	9.0	5.8	3.0	0.89	1.03	1.01	1.00	0.52	1.30		0.50	0.85				0.00	0.24
23.10	23.05	1.05	0.35	75.7	26.9	9.3	1.59		7.6	4.4	0.3	1.07	14.7	10.6	5.8	4.6	0.89	1.03	1.01	1.00	0.52	0.91	1.76	0.50	1.30				0.00	0.24
23.20	23.18	0.89	0.30	71.5	25.1	8.6	1.90		9.0	5.0	0.3	1.07	16.5	11.4	5.9	5.3	0.89	1.03	1.01	1.00	0.52	1.08	2.00	0.50	1.49				0.00	0.24
23.40	23.31	1.63	0.54	82.3	30.0	10.6	1.21		7.9	3.9	0.2	1.06	15.1	10.0	5.8	4.0	0.89	1.03	1.01	1.00	0.52	1.30		0.51	1.06				0.00	0.24
23.50	23.45	1.47	0.49	81.1	29.4	10.3	1.27		8.3	4.1	0.2	1.06	15.6	10.2	5.8	4.1	0.89	1.03	1.01	1.00	0.52	0.72	1.39	0.51	1.10				0.00	0.24
23.60	23.58	1.32	0.44	79.8	28.8	10.1	1.34		8.8	4.3	0.2	1.06	16.2	10.4	5.8	4.3	0.89	1.03	1.01	1.00	0.52	0.77	2.00	0.51	1.15				0.00	0.24
23.80	23.70	0.72	0.07	66.5	23.1	7.9	0.33	53.4	11.0	5.9	0.4	1.06	19.0	12.6	5.9	20.7	0.89	1.07	1.01	1.00	0.50	0.12	2.00	0.51	0.52				0.00	0.24
23.90	23.83	1.20	0.40	78.5	28.2	9.8	1.40		9.2	4.4	0.2	1.06	16.7	10.6	5.9	4.5	0.89	1.03	1.01	1.00	0.52	0.80	2.00	0.51	1.20				0.00	0.24
24.00	23.96	1.30	0.43	79.6	28.7	10.0	1.34		8.9	4.4	0.2	1.05	16.3	10.6	5.8	4.4	0.89	1.03	1.01	1.00	0.52	1.30	2.00	0.52	1.17				0.00	0.24
24.20	24.09	1.41	0.47	80.5	29.1	10.2	1.29		8.6	4.3	0.2	1.05	15.9	10.4	5.8	4.3	0.88	1.03	1.01	1.00	0.52	1.30		0.52	1.14				0.00	0.24
24.30	24.23	1.62	0.54	82.1	29.9	10.5	1.20		8.1	4.1	0.2	1.05	15.2	10.2	5.8	4.0	0.88	1.03	1.01	1.00	0.52	1.30		0.52	1.09				0.00	0.24
24.40	24.37	1.89	0.63	84.0	30.8	10.9	1.11		7.6	3.9	0.2	1.05	14.6	9.9	5.8	3.8	0.88	1.03	1.01	1.00	0.52	1.30		0.52	1.03				0.00	0.24
24.60	24.49	1.66	0.55	82.4	30.1	10.6	1.19		6.1	3.9	0.2	1.05	12.6	10.0	5.8	3.8	0.88	1.03	1.01	1.00	0.53	0.68	1.29	0.53	1.09				0.00	0.24
24.70	24.63	1.41	0.47	80.4	29.1	10.2	1.29		6.6	4.1	0.2	1.05	13.2	10.1	5.8	4.0	0.88	1.03	1.00	1.00	0.53	0.74	1.40	0.53	1.16				0.00	0.24
24.80	24.76	1.26	0.42	78.9	28.4	9.9	1.37		6.9	4.2	0.2	1.04	13.7	10.3	5.8	4.1	0.88	1.03	1.00	1.00	0.53	0.78	1.49	0.53	1.21				0.00	0.24
25.00	24.88	1.31	0.44	79.4	28.6	10.0	1.34		6.8	4.1	0.2	1.04	13.5	10.2	5.8	4.0	0.88	1.03	1.00	1.00	0.53	0.77	1.45	0.53	1.19				0.00	0.24
25.10	25.02	1.18	0.39	78.1	28.0	9.8	1.41		7.2	4.2	0.2	1.04	14.0	10.3	5.8	4.2	0.88	1.03	1.00	1.00	0.53	0.81	1.53	0.54	1.25				0.00	0.24
25.20	25.14	1.14	0.38	77.4	27.7	9.6	1.46		7.4	4.3	0.2	1.04	14.2	10.3	5.8	4.2	0.88	1.03	1.00	1.00	0.53	0.83	1.58	0.54	1.28				0.00	0.24
25.30	25.27	3.85	1.28	92.4	35.4	12.7	0.78		5.7	3.0	0.1	1.04	12.1	8.8	5.7	2.7	0.88	1.03	1.00	1.00	0.53	1.30		0.54	0.84				0.00	0.24
25.50	25.41	3.99	1.33	92.8	35.7	12.8	0.76		4.2	3.0	0.1	1.04	10.3	8.7	5.7	2.7	0.88	1.03	1.00	1.00	0.53	1.30		0.54	0.83				0.00	0.24
25.60	25.54	4.08	1.36	93.1	35.8	12.9	0.76		4.2	2.9	0.1	1.03	10.2	8.6	5.7	2.6	0.88	1.03	1.00	1.00	0.53	1.30		0.54	0.83				0.00	0.24
25.70	25.67	4.38	1.46	93.9	36.3	13.1	0.73		4.1	2.9	0.1	1.03	10.1	8.6	5.7	2.5	0.87	1.03	1.00	1.00	0.53	1.30		0.55	0.81				0.00	0.24
25.90	25.80	4.85	1.62	95.1	37.0	13.4	0.69		3.9	2.8	0.1	1.03	9.9	8.5	5.7	2.5	0.87	1.03	1.00	1.00	0.53	1.30		0.55	0.79				0.00	0.24
26.00	25.93	4.95	1.65	95.4	37.2	13.4	0.68		3.9	2.8	0.1	1.03	9.8	8.5	5.7	2.5	0.87	1.03	1.00	1.00	0.53	1.30		0.55	0.79				0.00	0.24
26.10	26.07	4.13	1.38	93.2	35.9	12.9	0.75		4.2	3.0	0.1	1.03	10.2	8.6	5.7	2.6	0.87	1.03	1.00	1.00	0.53	1.30		0.55	0.83				0.00	0.24
26.20	26.20	3.50	1.17	91.1	34.7	12.4	0.81		4.6	3.1	0.2	1.03	10.6	8.8	5.8	2.7	0.87	1.03	1.00	1.00	0.53	1.30		0.55	0.88				0.00	0.24
26.40	26.32	3.18	1.06	89.9	34.0	12.1	0.85		4.8	3.2	0.2	1.03	10.9	8.9	5.8	2.8	0.87	1.03	1.00	1.00	0.53	1.30		0.56	0.91				0.00	0.24
26.50	26.45	3.55	1.18	91.3	34.8	12.4	0.81		4.6	3.1	0.1	1.02	10.6	8.8	5.8	2.7	0.87	1.03	1.00	1.00	0.53	1.30		0.56	0.88				0.00	0.24
26.60	26.59	3.33	1.11	90.5	34.3	12.3	0.83		4.7	3.2	0.2	1.02	10.7	8.9	5.8	2.8	0.87	1.03	1.00	1.00	0.53	1.30		0.56	0.90				0.00	0.24
26.80	26.72	3.03	1.01	89.3	33.7	12.0	0.87		4.9	3.4	0.2	1.02	11.0	9.1	5.8	3.0	0.87	1.03	1.00	1.00	0.53	1.30		0.56	0.93				0.00	0.24
26.90	26.85	2.58	0.86	87.4	32.6	11.6	0.95		7.0	3.7	0.2	1.02	13.6	9.5	5.8	3.3	0.87	1.03	1.00	1.00	0.53	1.30		0.56	0.98				0.00	0.24
27.00	26.98	1.49	0.50	80.7	29.2	10.2	1.25		6.7	4.3	0.2	1.02	13.2	10.3	5.8	4.0	0.87	1.03	1.00	1.00	0.54	0.71	1.33	0.57	1.19				0.00	0.24
27.20	27.11	0.98	0.33	73.4	25.9	9.0	1.69		7.1	5.1	0.3	1.02	13.7	11.2	5.9	4.8	0.87	1.03	1.00	1.00	0.54	0.97	1.80	0.57	1.50				0.00	0.24
27.30	27.25	0.79	0.26	68.3	23.8	8.1	2.09		8.7	6.1	0.4	1.01	15.6	12.4	5.9	5.8	0.87	1.03	1.00	1.00	0.54	1.19	2.00	0.57	1.78				0.00	0.24

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Z_b (ft)	Z_m (ft)	$C_c/(1+e_0)$(%)	$C_r/(1+e_0)$(%)	μ_{FC}	μ_{LL}	μ_{PI}	K_0	D_R (%)	$N_{60L\&B}$	$(N_{60})_{Ic}$	$(N_1)_{60I\&B}$	C_N	$(N_1)_{60csL\&R}$	$(N_1)_{60csIc}$	$(N_1)_{60csI\&B}$	$(N_1)_{60qc1ncs}$	r_d	MSF	K_σ	K_α	$CSR_{7.5}$	$CRR_{7.5}$	FS	τ_{av} (tsf)	p'(tsf)	γ_{max} (%)	G/G_0	ε_v (%)	ΔS_i	ΣS_i (in)
27.40	27.38	0.60	0.20	61.4	21.3	7.2	2.77		14.2	7.8	0.5	1.01	22.3	14.4	6.0	7.5	0.86	1.04	1.00	1.00	0.54	1.30	2.00	0.57	2.25				0.00	0.24
27.60	27.51	0.40	0.13	51.5	18.1	6.0	0.46	61.4	21.1	10.7	2.3	1.01	29.1	17.1	7.7	28.1	0.86	1.10	1.00	1.00	0.50	0.14	2.00	0.58	0.66				0.00	0.24
27.70	27.65	0.27	0.09	42.5	15.6	5.1	0.55	67.1	24.4	14.4	5.8	1.01	31.0	20.0	10.7	28.4	0.86	1.15	1.00	1.00	0.48	0.18	2.00	0.58	0.73				0.00	0.24
27.80	27.77	0.27	0.09	42.1	15.5	5.0	0.56	67.4	31.0	14.7	6.0	1.01	38.3	20.3	10.8	29.0	0.86	1.15	1.00	1.00	0.48	0.18	2.00	0.58	0.74				0.00	0.24
28.00	27.90	0.62	0.21	62.4	21.6	7.3	2.64		18.5	8.2	0.4	1.00	27.2	14.9	6.0	7.8	0.86	1.03	1.00	1.00	0.54	1.30	2.00	0.58	2.20				0.00	0.24
28.10	28.05	0.85	0.28	70.0	24.5	8.4	1.92		20.6	6.6	0.3	1.00	29.8	12.9	5.9	6.1	0.86	1.03	1.00	1.00	0.54	1.10	2.00	0.59	1.70				0.00	0.24
28.20	28.17	0.94	0.31	72.3	25.4	8.8	1.75		18.9	6.2	0.3	1.00	27.7	12.4	5.9	5.7	0.86	1.03	1.00	1.00	0.54	1.00	1.86	0.59	1.58				0.00	0.24
28.40	28.29	0.94	0.31	72.3	25.5	8.8	1.74		18.9	6.2	0.3	1.00	27.7	12.5	5.9	5.7	0.86	1.03	1.00	1.00	0.54	1.30		0.59	1.59				0.00	0.24
28.50	28.43	0.62	0.21	62.1	21.5	7.3	2.66		18.8	8.4	0.4	1.00	27.5	15.1	6.1	7.9	0.86	1.03	1.00	1.00	0.54	1.30	2.00	0.59	2.24				0.00	0.24
28.60	28.55	0.35	0.12	48.5	17.2	5.7	0.48	63.1	19.4	12.0	3.3	0.99	26.2	17.9	8.5	27.7	0.86	1.12	1.00	1.00	0.50	0.15	2.00	0.59	0.70				0.00	0.24
28.70	28.68	0.37	0.12	49.6	17.5	5.8	0.47	62.7	23.2	11.8	2.9	0.99	31.1	18.1	8.2	30.1	0.86	1.11	1.00	1.00	0.50	0.15	0.30	0.60	0.70	25.983		1.84	0.02	0.22
28.90	28.82	0.26	0.09	40.9	15.2	4.9	0.56	68.6	33.1	15.8	6.6	0.99	40.3	21.4	11.6	31.6	0.86	1.17	1.00	1.00	0.48	0.19	0.40	0.60	0.77	15.904		1.72	0.04	0.17
29.00	28.96	0.20	0.07	34.3	13.6	4.4	0.64	73.3	34.7	19.6	10.8	0.99	40.3	24.2	15.1	32.1	0.85	1.24	1.00	1.00	0.45	0.27	0.61	0.60	0.83	9.872		2.11	0.03	0.15
29.10	29.09	0.44	0.15	53.9	18.8	6.3	3.69		26.3	11.3	1.5	0.99	36.1	18.4	7.1	10.6	0.85	1.04	1.00	1.00	0.54	1.30	2.00	0.61	3.04				0.00	0.15
29.30	29.22	0.56	0.19	59.6	20.7	7.0	2.91		31.6	9.5	0.5	0.98	42.3	16.2	6.1	8.7	0.85	1.04	1.00	1.00	0.54	1.30	2.00	0.61	2.48				0.00	0.15
29.40	29.36	0.70	0.23	64.8	22.5	7.6	2.35		25.9	8.0	0.4	0.98	35.6	14.4	6.0	7.2	0.85	1.03	1.00	1.00	0.54	1.30	2.00	0.61	2.08				0.00	0.15
29.50	29.48	1.04	0.35	74.4	26.3	9.1	1.58		18.0	6.1	0.3	0.98	26.2	12.1	5.9	5.3	0.85	1.03	1.00	1.00	0.54	1.30		0.61	1.52				0.00	0.15
29.70	29.60	1.85	0.62	82.8	30.2	10.6	1.11		13.2	4.8	0.2	0.98	20.5	10.7	5.8	4.1	0.85	1.03	1.00	1.00	0.54	1.30		0.61	1.19				0.00	0.15
29.80	29.74	2.76	0.92	87.6	32.7	11.6	0.91		11.1	4.2	0.2	0.98	18.1	10.0	5.7	3.5	0.85	1.03	1.00	1.00	0.54	1.30		0.62	1.04				0.00	0.15
29.90	29.87	3.45	1.15	90.3	34.2	12.2	0.82		10.2	4.0	0.2	0.98	16.9	9.7	5.7	3.2	0.85	1.03	1.00	1.00	0.54	1.30		0.62	0.97				0.00	0.15
30.10	30.00	3.03	1.01	88.7	33.3	11.9	0.87		10.8	4.0	0.2	0.97	17.6	9.7	5.7	3.3	0.85	1.03	1.00	1.00	0.54	1.30		0.62	1.02				0.00	0.15
30.20	30.14	2.51	0.84	86.5	32.1	11.4	0.95		7.8	4.1	0.2	0.97	14.1	9.8	5.8	3.3	0.85	1.03	1.00	1.00	0.54	1.30		0.62	1.08				0.00	0.15
30.30	30.26	3.51	1.17	90.5	34.3	12.3	0.81		6.8	3.7	0.2	0.97	12.9	9.3	5.7	2.9	0.85	1.03	1.00	1.00	0.54	1.30		0.62	0.98				0.00	0.15
30.40	30.38	5.17	1.72	95.1	37.0	13.4	0.67		5.8	3.3	0.1	0.97	11.7	8.8	5.7	2.5	0.85	1.03	1.00	1.00	0.54	1.30		0.63	0.87				0.00	0.15
30.60	30.52	4.25	1.42	92.8	35.6	12.8	0.73		4.7	3.3	0.1	0.97	10.5	8.9	5.7	2.6	0.84	1.03	1.00	1.00	0.54	1.30		0.63	0.92				0.00	0.15
30.70	30.65	4.97	1.66	94.6	36.7	13.2	0.68		4.4	3.2	0.1	0.97	10.2	8.7	5.7	2.5	0.84	1.03	1.00	1.00	0.54	1.30		0.63	0.89				0.00	0.15
30.80	30.78	4.87	1.62	94.4	36.6	13.2	0.68		4.5	3.2	0.1	0.97	10.2	8.7	5.7	2.4	0.84	1.03	1.00	1.00	0.54	1.30		0.63	0.89				0.00	0.15
31.00	30.91	4.79	1.60	94.2	36.5	13.1	0.69		4.5	3.2	0.1	0.97	10.2	8.7	5.7	2.5	0.84	1.03	1.00	1.00	0.54	1.30		0.63	0.90				0.00	0.15
31.10	31.04	4.42	1.47	93.2	35.9	12.9	0.72		4.7	3.3	0.1	0.96	10.4	8.9	5.7	2.5	0.84	1.03	1.00	1.00	0.54	1.30		0.64	0.92				0.00	0.15
31.30	31.18	3.63	1.21	90.8	34.5	12.3	0.79		5.1	3.6	0.2	0.96	10.9	9.1	5.7	2.8	0.84	1.03	1.00	1.00	0.54	1.30		0.64	0.98				0.00	0.15
31.40	31.33	2.78	0.93	87.5	32.7	11.6	0.90		5.7	3.9	0.2	0.96	11.6	9.5	5.8	3.1	0.84	1.03	1.00	1.00	0.54	1.30		0.64	1.07				0.00	0.15
31.50	31.45	2.48	0.83	86.1	31.9	11.3	0.96		6.0	4.1	0.2	0.96	11.9	9.7	5.8	3.2	0.84	1.03	1.00	1.00	0.54	1.30		0.64	1.11				0.00	0.15
31.60	31.57	2.74	0.91	87.3	32.6	11.6	0.91		7.7	4.1	0.2	0.96	13.9	9.7	5.8	3.2	0.84	1.03	1.00	1.00	0.54	1.30		0.64	1.08				0.00	0.15
31.80	31.71	3.30	1.10	89.5	33.8	12.0	0.83		7.2	3.9	0.2	0.96	13.2	9.5	5.7	3.0	0.84	1.03	1.00	1.00	0.54	1.30		0.65	1.02				0.00	0.15
31.90	31.86	3.65	1.22	90.7	34.4	12.3	0.79		6.9	3.9	0.2	0.96	12.9	9.4	5.7	2.9	0.84	1.03	1.00	1.00	0.54	1.30		0.65	1.00				0.00	0.15
32.00	31.99	3.76	1.25	91.0	34.6	12.4	0.78		6.8	3.8	0.2	0.95	12.8	9.4	5.7	2.9	0.84	1.03	0.99	1.00	0.54	1.30		0.65	0.99				0.00	0.15
32.20	32.10	2.96	0.99	88.1	33.0	11.7	0.88		7.6	4.1	0.2	0.95	13.7	9.7	5.8	3.2	0.83	1.03	0.99	1.00	0.54	1.30		0.65	1.07				0.00	0.15
32.30	32.22	0.94	0.31	71.7	25.2	8.7	1.72		10.4	5.9	0.3	0.95	16.8	11.8	5.9	4.9	0.83	1.03	0.99	1.00	0.54	0.98	1.81	0.65	1.73				0.00	0.15
32.40	32.36	0.85	0.28	69.4	24.3	8.3	1.89		9.0	6.2	0.3	0.95	15.3	12.1	5.9	5.2	0.83	1.03	0.99	1.00	0.54	1.08	1.98	0.66	1.86				0.00	0.15
32.60	32.50	3.01	1.00	88.3	33.1	11.8	0.87		7.6	4.0	0.2	0.95	13.6	9.6	5.8	3.1	0.83	1.03	0.99	1.00	0.54	1.30		0.66	1.07				0.00	0.15
32.70	32.62	2.93	0.98	88.0	32.9	11.7	0.88		5.8	4.0	0.2	0.95	11.6	9.6	5.8	3.1	0.83	1.03	0.99	1.00	0.55	1.30		0.66	1.08				0.00	0.15
32.80	32.75	2.72	0.91	87.1	32.4	11.5	0.91		6.0	4.1	0.2	0.95	11.8	9.7	5.8	3.1	0.83	1.03	0.99	1.00	0.55	1.30		0.66	1.11				0.00	0.15
33.00	32.88	1.94	0.65	83.0	30.3	10.7	1.08		6.9	4.5	0.2	0.95	12.8	10.2	5.8	3.5	0.83	1.03	0.99	1.00	0.55	1.30		0.66	1.24				0.00	0.15
33.10	33.03	1.15	0.38	76.4	27.2	9.5	1.41		8.8	5.5	0.3	0.94	15.0	11.2	5.9	4.4	0.83	1.03	0.99	1.00	0.55	0.81	1.48	0.66	1.51				0.00	0.15
33.20	33.17	0.90	0.30	70.6	24.7	8.5	1.79		8.8	6.5	0.3	0.94	14.9	12.3	5.9	5.3	0.83	1.03	0.99	1.00	0.55	1.02	1.87	0.67	1.82				0.00	0.15
33.30	33.29	0.79	0.26	67.4	23.5	8.0	2.04		9.9	7.1	0.4	0.94	16.2	13.1	5.9	5.9	0.83	1.03	0.99	1.00	0.55	1.16	2.00	0.67	2.02				0.00	0.15
33.50	33.42	0.79	0.26	67.3	23.4	8.0	2.04		12.4	7.3	0.4	0.94	19.0	13.3	6.0	6.0	0.83	1.03	0.99	1.00	0.55	1.17	2.00	0.67	2.03				0.00	0.15
33.60	33.56	0.83	0.28	68.4	23.9	8.2	1.95		12.0	7.2	0.3	0.94	18.5	13.1	6.0	5.8	0.83	1.03	0.99	1.00	0.55	1.12	2.00	0.67	1.96				0.00	0.15
33.70	33.68	0.87	0.29	69.6	24.3	8.3	1.85		11.4	6.9	0.3	0.94	17.9	12.8	5.9	5.6	0.82	1.03	0.99	1.00	0.55	1.06	1.94	0.67	1.89				0.00	0.15
33.90	33.80	0.89	0.30	70.0	24.5	8.4	1.82		11.3	6.9	0.3	0.94	17.7	12.8	5.9	5.6	0.82	1.03	0.99	1.00	0.55	1.04	1.90	0.68	1.87				0.00	0.15
34.00	33.93	0.88	0.29	69.7	24.4	8.4	1.84		11.4	7.0	0.3	0.93	17.8	12.9	5.9	5.6	0.82	1.03	0.99	1.00	0.55	1.05	1.93	0.68	1.89				0.00	0.15
34.10	34.06	0.82	0.27	68.2	23.8	8.1	1.96		12.1	7.3	0.3	0.93	18.6	13.2	6.0	5.9	0.82	1.03	0.99	1.00	0.55	1.12	2.00	0.68	1.99				0.00	0.15
34.30	34.20	0.88	0.29	69.9	24.5	8.4	1.82		11.4	7.0	0.3	0.93	17.8	12.8	5.9	5.5	0.82	1.03	0.99	1.00	0.55	1.04	1.91	0.68	1.89				0.00	0.15
34.40	34.35	1.33	0.44	78.1	28.0	9.8	1.30		11.2	5.7	0.2	0.93	17.6	11.4	5.8	4.4	0.82	1.03	0.99	1.00	0.55	1.30		0.69	1.47				0.00	0.15
34.50	34.47	2.37	0.79	85.0	31.4	11.1	0.98		13.2	5.0	0.2	0.93	19.7	10.5	5.8	3.7	0.82	1.03	0.99	1.00	0.55	1.30		0.69	1.21				0.00	0.15
34.70	34.59	4.07	1.36	91.5	34.9	12.5	0.75		10.6	4.3	0.1	0.93	16.8	9.8	5.7	3.0	0.82	1.03	0.99	1.00	0.55	1.30		0.69	1.03				0.00	0.15
34.80	34.73	5.08	1.69	94.1	36.4	13.1	0.67		9.7	4.0	0.1	0.93	15.8	9.5	5.7	2.8	0.82	1.03	0.99	1.00	0.55	1.30		0.69	0.96				0.00	0.15
34.90	34.86	5.69	1.90	95.5	37.3	13.4	0.63		9.3	3.8	0.1	0.92	15.3	9.2	5.7	2.6	0.82	1.03	0.99	1.00	0.55	1.30		0.69	0.94				0.00	0.15
35.10	34.99	5.46	1.82	95.0	37.0	13.3	0.65		6.3	3.7	0.1	0.92	12.0	9.1	5.7	2.5	0.82	1.03	0.99	1.00	0.55	1.30		0.69	0.95				0.00	0.15
35.20	35.12	5.87	1.96	95.9	37.5	13.6	0.62		6.1	3.5	0.1	0.92	11.8	8.9	5.7	2.4	0.82	1.03	0.99	1.00	0.55	1.30		0.70	0.93				0.00	0.15
35.30	35.25	5.54	1.85	95.2	37.1	13.4	0.64		6.3	3.6	0.1	0.92	11.9	9.0	5.7	2.4	0.81	1.03	0.99	1.00	0.55	1.30		0.70	0.95				0.00	0.15
35.50	35.39	3.79	1.26	90.7	34.4	12.3	0.77		5.5	4.0	0.2	0.92	11.1	9.4	5.7	2.8	0.81	1.03	0.99	1.00	0.55	1.30		0.70	1.06				0.00	0.15
35.60	35.52	2.12	0.71	83.7	30.7	10.8	1.02		7.0	4.6	0.2	0.92	12.7	10.1	5.8	3.4	0.81	1.03	0.99	1.00	0.55	1.30		0.70	1.27				0.00	0.15
35.70	35.64	1.40	0.47	78.7	28.3	9.9	1.25		8.4	5.3	0.2	0.92	14.2	10.9	5.8	4.0	0.81	1.03	0.99	1.00	0.55	0.72	1.31	0.70	1.47				0.00	0.15
35.80	35.77	1.01	0.34	72.9	25.7	8.9	1.59		8.3	6.2	0.3	0.92	14.2	11.9	5.9	4.7	0.81	1.03	0.99	1.00	0.55	0.91	1.66	0.70	1.75				0.00	0.15
36.00	35.90	0.99	0.33	72.5	25.6	8.8	1.61		10.6	6.4	0.3	0.92	16.6	12.0	5.9	4.8	0.81	1.03	0.99	1.00	0.55	0.92	1.68	0.71	1.78				0.00	0.15
36.10	36.04	1.08	0.36	74.6	26.4	9.2	1.48		9.8	6.1	0.3	0.91	15.8	11.6	5.9	4.6	0.81	1.03	0.99	1.00	0.55	0.85	1.55	0.71	1.67				0.00	0.15
36.30	36.19	1.16	0.39	76.2	27.1	9.4	1.39		9.3	5.9	0.3	0.91	15.2	11.4	5.9	4.4	0.81	1.03	0.99	1.00	0.55	0.79	1.45	0.71	1.60				0.00	0.15
36.40	36.32	1.09	0.36	74.7	26.5	9.2	1.47		9.8	6.1	0.3	0.91	15.8	11.7	5.9	4.6	0.81	1.03	0.99	1.00	0.55	0.84	1.54	0.71	1.68				0.00	0.15

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Z_b (ft)	Z_m (ft)	$C_c/(1+e_0)$(%)	$C_r/(1+e_0)$(%)	μ_{FC}	μ_{LL}	μ_{PI}	K_θ	D_R (%)	$N_{60L\&B}$	$(N_{60})_{Ic}$	$(N_1)_{60I\&B}$	C_N	$(N_1)_{60csL\&R}$	$(N_1)_{60csIc}$	$(N_1)_{60csI\&B}$	$(N_1)_{60qc1ncs}$	r_d	MSF	K_σ	K_α	$CSR_{7.5}$	$CRR_{7.5}$	FS	τ_{av} (tsf)	p'(tsf)	γ_{max} (%)	G/G_0	ε_v (%)	ΔS_i	ΣS_i (in)
36.50	36.44	0.78	0.26	66.7	23.2	7.9	2.04		10.6	7.7	0.4	0.91	16.6	13.4	6.0	5.9	0.81	1.03	0.99	1.00	0.55	1.16	2.00	0.71	2.16				0.00	0.15
36.60	36.58	0.57	0.19	59.2	20.5	6.9	2.77		14.2	9.8	0.5	0.91	20.5	15.7	6.0	7.7	0.81	1.04	0.99	1.00	0.55	1.30	2.00	0.72	2.79				0.00	0.15
36.70	36.70	0.42	0.04	52.0	18.2	6.0	0.42	61.0	18.8	12.1	2.2	0.91	24.5	17.5	7.6	30.5	0.80	1.10	0.98	1.00	0.52	0.14	2.00	0.72	0.79				0.00	0.15
36.90	36.82	0.34	0.11	46.7	16.7	5.5	0.47	64.3	23.2	14.4	4.0	0.91	28.2	19.2	9.2	30.7	0.80	1.13	0.97	1.00	0.51	0.16	0.31	0.72	0.83	22.938		1.83	0.04	0.11
37.00	36.95	0.39	0.13	49.8	17.6	5.8	0.44	62.4	20.5	13.1	2.9	0.90	26.1	18.4	8.2	31.5	0.80	1.11	0.98	1.00	0.52	0.15	2.00	0.72	0.81				0.00	0.11
37.10	37.08	0.54	0.18	57.7	20.0	6.7	2.92		18.9	10.7	0.5	0.90	25.5	16.6	6.1	8.3	0.80	1.04	0.99	1.00	0.55	1.30	2.00	0.72	2.96				0.00	0.11
37.30	37.22	0.66	0.22	62.5	21.7	7.3	2.40		15.7	9.2	0.4	0.90	22.0	15.0	6.0	7.0	0.80	1.03	0.99	1.00	0.55	1.30	2.00	0.73	2.52				0.00	0.11
37.40	37.36	0.70	0.23	63.9	22.2	7.5	2.26		15.0	8.7	0.4	0.90	21.2	14.4	6.0	6.6	0.80	1.03	0.99	1.00	0.55	1.29	2.00	0.73	2.41				0.00	0.11
37.50	37.48	0.73	0.24	64.7	22.5	7.6	2.19		14.5	8.5	0.4	0.90	20.7	14.2	6.0	6.4	0.80	1.03	0.99	1.00	0.55	1.25	2.00	0.73	2.34				0.00	0.11
37.70	37.61	0.78	0.26	66.3	23.1	7.9	2.05		13.7	8.4	0.4	0.90	19.8	14.1	6.0	6.3	0.80	1.03	0.99	1.00	0.55	1.17	2.00	0.73	2.23				0.00	0.11
37.80	37.75	0.80	0.27	66.8	23.3	7.9	2.00		18.0	8.4	0.4	0.90	24.3	14.0	6.0	6.2	0.80	1.03	0.99	1.00	0.55	1.14	2.00	0.73	2.20				0.00	0.11
37.90	37.88	0.78	0.26	66.4	23.1	7.9	2.03		18.3	8.5	0.4	0.89	24.6	14.1	6.0	6.3	0.80	1.03	0.99	1.00	0.55	1.16	2.00	0.74	2.23				0.00	0.11
38.10	38.00	0.47	0.05	54.2	18.9	6.3	0.39	59.4	21.9	11.3	1.7	0.89	27.5	16.5	7.1	27.9	0.80	1.09	0.97	1.00	0.52	0.13	2.00	0.74	0.79				0.00	0.11
38.20	38.13	0.43	0.04	52.1	18.3	6.1	0.41	60.5	23.8	12.1	2.2	0.89	29.0	16.9	7.5	27.4	0.80	1.10	0.97	1.00	0.52	0.14	0.27	0.74	0.81	30.403		1.97	0.02	0.08
38.30	38.26	0.77	0.26	66.0	22.9	7.8	2.06		18.7	8.7	0.4	0.89	25.0	14.3	6.0	6.4	0.79	1.03	0.99	1.00	0.55	1.18	2.00	0.74	2.28				0.00	0.08
38.50	38.40	0.83	0.28	67.7	23.6	8.1	1.92		17.5	8.3	0.3	0.89	23.7	13.9	6.0	6.1	0.79	1.03	0.99	1.00	0.54	1.10	2.00	0.74	2.16				0.00	0.08
38.60	38.54	0.88	0.29	69.0	24.1	8.3	1.82		16.7	8.0	0.3	0.89	22.8	13.5	5.9	5.8	0.79	1.03	0.99	1.00	0.54	1.04	1.91	0.75	2.07				0.00	0.08
38.70	38.66	0.89	0.30	69.4	24.3	8.3	1.79		16.5	7.9	0.3	0.89	22.6	13.4	5.9	5.7	0.79	1.03	0.99	1.00	0.54	1.02	1.88	0.75	2.05				0.00	0.08
38.80	38.78	0.99	0.33	71.8	25.2	8.7	1.62		15.1	7.4	0.3	0.89	21.1	12.9	5.9	5.3	0.79	1.03	0.99	1.00	0.54	0.92	1.70	0.75	1.91				0.00	0.08
39.00	38.92	1.32	0.44	77.2	27.6	9.6	1.30		18.7	6.6	0.2	0.88	24.8	12.0	5.8	4.6	0.79	1.03	0.99	1.00	0.54	1.30		0.75	1.62				0.00	0.08
39.10	39.07	1.84	0.61	81.1	29.4	10.3	1.10		16.3	6.0	0.2	0.88	22.2	11.4	5.8	4.1	0.79	1.03	0.99	1.00	0.54	1.30		0.75	1.45				0.00	0.08
39.20	39.19	2.70	0.90	85.7	31.7	11.2	0.92		13.9	5.4	0.2	0.88	19.7	10.7	5.7	3.6	0.79	1.03	0.99	1.00	0.54	1.30		0.76	1.29				0.00	0.08
39.40	39.32	2.52	0.84	84.9	31.3	11.1	0.94		14.3	5.4	0.2	0.88	20.1	10.7	5.8	3.6	0.79	1.03	0.99	1.00	0.54	1.30		0.76	1.32				0.00	0.08
39.50	39.46	2.03	0.68	82.3	30.0	10.6	1.05		10.4	5.6	0.2	0.88	16.0	11.0	5.8	3.8	0.79	1.03	0.99	1.00	0.54	1.30		0.76	1.41				0.00	0.08
39.60	39.58	1.55	0.52	79.1	28.5	9.9	1.19		11.7	6.1	0.2	0.88	17.4	11.5	5.8	4.1	0.79	1.03	0.99	1.00	0.54	1.30		0.76	1.55				0.00	0.08
39.80	39.71	1.58	0.53	79.2	28.5	10.0	1.19		17.6	6.3	0.2	0.88	23.5	11.6	5.8	4.2	0.79	1.03	0.99	1.00	0.54	1.30		0.76	1.55				0.00	0.08
39.90	39.84	1.60	0.53	79.4	28.6	10.0	1.18		17.5	6.2	0.2	0.88	23.4	11.5	5.8	4.2	0.78	1.03	0.99	1.00	0.54	1.30		0.76	1.54				0.00	0.08
40.00	39.97	1.59	0.53	79.3	28.6	10.0	1.18		17.6	6.2	0.2	0.87	23.4	11.5	5.8	4.2	0.78	1.03	0.99	1.00	0.54	1.30		0.77	1.55				0.00	0.08
40.20	40.10	1.54	0.51	79.0	28.4	9.9	1.19		11.9	6.2	0.2	0.87	17.4	11.5	5.8	4.1	0.78	1.03	0.98	1.00	0.54	1.30		0.77	1.57				0.00	0.08
40.30	40.24	1.56	0.52	79.2	28.5	10.0	1.19		11.8	6.1	0.2	0.87	17.4	11.4	5.8	4.1	0.78	1.03	0.98	1.00	0.54	1.30		0.77	1.56				0.00	0.08
40.40	40.38	1.46	0.49	78.4	28.1	9.8	1.22		12.2	6.3	0.2	0.87	17.8	11.5	5.8	4.2	0.78	1.03	0.98	1.00	0.54	1.30		0.77	1.60				0.00	0.08
40.60	40.50	1.49	0.50	78.6	28.2	9.8	1.21		12.1	6.2	0.2	0.87	17.7	11.5	5.8	4.1	0.78	1.03	0.98	1.00	0.54	1.30		0.77	1.60				0.00	0.08
40.70	40.65	1.10	0.37	74.2	26.2	9.1	1.45		14.3	7.1	0.3	0.87	19.9	12.5	5.9	4.8	0.78	1.03	0.98	1.00	0.54	1.30		0.77	1.82				0.00	0.08
40.80	40.77	0.83	0.28	67.3	23.5	8.0	1.91		18.4	8.6	0.4	0.87	24.1	14.0	6.0	6.0	0.78	1.03	0.98	1.00	0.54	1.09	2.00	0.78	2.26				0.00	0.08
40.90	40.88	0.77	0.26	65.5	22.8	7.7	2.05		19.7	9.3	0.4	0.87	25.5	14.7	6.0	6.5	0.78	1.03	0.98	1.00	0.54	1.17	2.00	0.78	2.40				0.00	0.08
41.10	41.02	0.69	0.23	62.8	21.8	7.4	2.29		21.9	10.2	0.4	0.87	27.7	15.6	6.0	7.1	0.78	1.03	0.98	1.00	0.54	1.30	2.00	0.78	2.63				0.00	0.08
41.20	41.17	0.60	0.20	59.3	20.6	6.9	2.63		25.0	11.4	0.5	0.86	30.9	16.8	6.1	8.0	0.78	1.04	0.98	1.00	0.54	1.30	2.00	0.78	2.96				0.00	0.08
41.40	41.30	0.52	0.17	56.0	19.5	6.5	3.01		28.4	12.5	0.7	0.86	34.4	18.0	6.3	8.8	0.78	1.04	0.98	1.00	0.54	1.30	2.00	0.78	3.33				0.00	0.08
41.50	41.42	0.47	0.16	53.3	18.6	6.2	3.35		31.6	13.8	1.1	0.86	37.7	19.3	6.7	9.7	0.77	1.04	0.98	1.00	0.54	1.30	2.00	0.79	3.66				0.00	0.08
41.60	41.54	0.39	0.13	49.2	17.4	5.7	3.95		37.1	15.8	2.1	0.86	43.3	21.3	7.7	11.2	0.77	1.04	0.98	1.00	0.54	1.30	2.00	0.79	4.25				0.00	0.08
41.70	41.68	0.26	0.09	39.6	14.9	4.8	0.52	70.6	40.7	20.6	7.3	0.86	44.7	25.0	12.6	45.9	0.77	1.19	0.95	1.00	0.48	0.22	2.00	0.79	0.98				0.00	0.08
41.90	41.80	0.18	0.06	30.8	12.9	4.1	0.62	77.7	46.1	26.8	13.6	0.86	47.0	28.9	18.3	42.6	0.77	1.34	0.94	1.00	0.44	0.47	2.00	0.79	1.08				0.00	0.08
42.00	41.94	0.69	0.23	27.0	12.1	3.8	0.66	80.8	44.8	30.2	17.3	0.86	44.4	31.0	21.5	42.0	0.77	1.43	0.94	1.00	0.41	0.88	2.00	0.79	1.12	0.000		0.00	0.00	0.08
42.10	42.07	0.14	0.05	25.3	11.7	3.7	0.68	83.0	57.7	32.7	19.2	0.85	56.5	33.5	23.5	47.0	0.77	1.45	0.93	1.00	0.41	1.30	2.00	0.80	1.15	0.000		0.00	0.00	0.08
42.30	42.21	0.17	0.06	28.9	12.5	3.9	0.64	79.9	50.1	29.4	15.4	0.85	50.7	31.4	20.2	48.0	0.77	1.40	0.94	1.00	0.42	0.72	1.73	0.80	1.11	0.598		0.09	0.00	0.08
42.40	42.35	0.23	0.08	36.7	14.2	4.6	0.55	72.9	46.0	22.8	9.1	0.85	48.8	26.4	14.3	45.8	0.77	1.23	0.95	1.00	0.47	0.26	0.56	0.80	1.02	10.322		1.38	0.02	0.06
42.50	42.48	0.30	0.10	42.5	15.6	5.1	0.49	68.3	36.7	19.1	5.8	0.85	41.1	23.6	11.2	45.7	0.77	1.16	0.95	1.00	0.49	0.19	0.38	0.80	0.97	16.422		1.46	0.02	0.05
42.70	42.60	0.25	0.08	38.4	14.6	4.7	0.53	71.3	43.1	21.4	8.0	0.85	45.9	25.0	13.2	43.0	0.77	1.21	0.95	1.00	0.48	0.23	0.48	0.80	1.01	12.255		1.46	0.03	0.01
42.80	42.74	0.20	0.07	33.1	13.4	4.3	0.59	75.8	42.6	25.4	11.7	0.85	44.0	27.9	16.6	43.6	0.77	1.29	0.94	1.00	0.45	0.36	0.80	0.81	1.07	5.337		0.90	0.01	0.00
42.90	42.88	0.24	0.08	37.2	14.3	4.6	0.54	72.4	45.5	22.5	8.8	0.85	47.9	25.9	14.0	44.4	0.77	1.22	0.95	1.00	0.47	0.25	2.00	0.81	1.03				0.00	0.00
43.10	43.00	0.37	0.12	47.4	16.9	5.5	4.19		30.6	16.8	2.6	0.84	36.0	22.1	8.1	11.5	0.76	1.04	0.97	1.00	0.54	1.30	2.00	0.81	4.64				0.00	0.00
43.20	43.12	0.63	0.21	60.1	20.8	7.0	2.50		25.0	11.5	0.5	0.84	30.3	16.6	6.1	7.7	0.76	1.04	0.98	1.00	0.54	1.30	2.00	0.81	2.98				0.00	0.00
43.30	43.25	0.93	0.31	69.6	24.4	8.4	1.70		17.6	8.5	0.3	0.84	22.7	13.6	5.9	5.5	0.76	1.03	0.98	1.00	0.54	0.97	1.81	0.81	2.19				0.00	0.00
43.40	43.38	0.90	0.30	68.9	24.1	8.3	1.74		13.5	8.2	0.3	0.84	18.6	13.3	5.9	5.3	0.76	1.03	0.98	1.00	0.54	1.00	1.85	0.81	2.24				0.00	0.00
43.60	43.51	0.86	0.29	68.1	23.8	8.1	1.80		14.0	8.1	0.3	0.84	19.1	13.2	5.9	5.3	0.76	1.03	0.98	1.00	0.54	1.03	1.92	0.82	2.30				0.00	0.00
43.70	43.65	0.80	0.27	66.3	23.1	7.9	1.93		14.9	8.5	0.4	0.84	20.0	13.6	5.9	5.5	0.76	1.03	0.98	1.00	0.54	1.10	2.00	0.82	2.44				0.00	0.00
43.80	43.78	0.76	0.25	65.1	22.6	7.7	2.03		15.6	8.9	0.4	0.84	20.7	13.9	6.0	5.7	0.76	1.03	0.98	1.00	0.54	1.16	2.00	0.82	2.54				0.00	0.00
44.00	43.90	1.15	0.38	74.7	26.5	9.2	1.38		14.7	7.4	0.3	0.84	19.8	12.4	5.9	4.6	0.76	1.03	0.98	1.00	0.54	1.30		0.82	1.89				0.00	0.00
44.10	44.04	0.65	0.22	61.2	21.2	7.2	2.37		14.6	10.2	0.4	0.84	19.6	15.2	6.0	6.6	0.76	1.03	0.98	1.00	0.54	1.30	2.00	0.82	2.90				0.00	0.00
44.30	44.19	0.60	0.20	59.6	20.7	6.9	2.53		15.5	10.6	0.5	0.83	20.5	15.6	6.0	6.9	0.76	1.04	0.98	1.00	0.54	1.30	2.00	0.82	3.07				0.00	0.00
44.40	44.33	0.73	0.24	64.0	22.2	7.5	2.11		16.4	9.5	0.4	0.83	21.4	14.5	6.0	6.1	0.76	1.03	0.98	1.00	0.54	1.21	2.00	0.83	2.65				0.00	0.00
44.50	44.45	0.74	0.25	64.3	22.3	7.6	2.09		16.3	9.3	0.4	0.83	21.3	14.3	6.0	6.0	0.76	1.03	0.98	1.00	0.54	1.19	2.00	0.83	2.64				0.00	0.00
44.60	44.57	0.71	0.24	63.3	22.0	7.4	2.17		16.9	9.5	0.4	0.83	21.9	14.5	6.0	6.1	0.75	1.03	0.98	1.00	0.54	1.24	2.00	0.83	2.72				0.00	0.00
44.80	44.69	1.55	0.52	78.4	28.1	9.8	1.18		13.1	6.8	0.2	0.83	18.0	11.7	5.8	4.1	0.75	1.03	0.98	1.00	0.53	1.30		0.83	1.72				0.00	0.00
44.90	44.82	1.70	0.57	79.3	28.5	10.0	1.14		19.0	6.8	0.2	0.83	23.9	11.8	5.8	4.1	0.75	1.03	0.98	1.00	0.53	1.30		0.83	1.68				0.00	0.00
45.00	44.96	1.24	0.41	75.3	26.7	9.3	1.33		21.9	8.0	0.3	0.83	26.8	12.9	5.8	4.8	0.75	1.03	0.98	1.00	0.53	1.30		0.83	1.89				0.00	0.00
45.10	45.09	0.65	0.22	61.0	21.1	7.1	2.37		24.8	11.3	0.4	0.83	29.6	16.2	6.1	7.2	0.75	1.03	0.98	1.00	0.53	1.30	2.00	0.84	2.96				0.00	0.00
45.30	45.22	0.50	0.17	54.6	19.0	6.3	3.06		23.7	13.6	0.7	0.83	28.4	18.5	6.3	8.8	0.75	1.04	0.97	1.00	0.54	1.30	2.00	0.84	3.68				0.00	0.00
45.40	45.36	0.45	0.15	52.1	18.3	6.1	3.38		26.1	14.5	1.2	0.82	30.8	19.3	6.7	9.4	0.75	1.04	0.97	1.00	0.53	1.30	2.00	0.84	4.03				0.00	0.00

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Z_b (ft)	Z_m (ft)	$C_c/(1+e_0)$(%)	$C_r/(1+e_0)$(%)	μ_{FC}	μ_{LL}	μ_{PI}	K_0	D_R (%)	$N_{60L\&B}$	$(N_{60})_{Ic}$	$(N_1)_{60I\&B}$	C_N	$(N_1)_{60csL\&R}$	$(N_1)_{60csIc}$	$(N_1)_{60csI\&B}$	$(N_1)_{60qc1ncs}$	r_d	MSF	K_σ	K_α	$CSR_{7.5}$	$CRR_{7.5}$	FS	τ_{av} (tsf)	p'(tsf)	γ_{max} (%)	G/G_0	ε_v (%)	ΔS_i	ΣS_i (in)
45.50	45.48	0.43	0.04	51.6	18.1	6.0	0.39	60.8	21.4	13.6	2.4	0.82	25.0	17.7	7.7	29.9	0.75	1.10	0.95	1.00	0.51	0.14	2.00	0.84	0.93				0.00	0.00
45.70	45.60	0.58	0.19	58.6	20.3	6.8	2.59		16.3	11.1	0.5	0.82	21.1	16.0	6.0	7.1	0.75	1.04	0.97	1.00	0.53	1.30	2.00	0.84	3.23				0.00	0.00
45.80	45.74	0.85	0.28	67.5	23.5	8.0	1.81		11.8	8.7	0.3	0.82	16.6	13.6	5.9	5.4	0.75	1.03	0.98	1.00	0.53	1.04	2.00	0.84	2.42				0.00	0.00
46.00	45.88	1.04	0.35	72.2	25.4	8.8	1.50		12.4	7.8	0.3	0.82	17.2	12.7	5.9	4.7	0.75	1.03	0.98	1.00	0.53	0.86	1.61	0.85	2.10				0.00	0.00
46.10	46.02	1.16	0.39	74.7	26.5	9.2	1.35		11.3	7.4	0.3	0.82	16.1	12.3	5.9	4.4	0.75	1.03	0.98	1.00	0.53	0.77	1.45	0.85	1.95				0.00	0.00
46.20	46.14	1.22	0.41	75.3	26.7	9.3	1.32		11.1	7.4	0.3	0.82	15.9	12.3	5.9	4.4	0.74	1.03	0.98	1.00	0.53	1.30		0.85	1.92				0.00	0.00
46.30	46.27	1.24	0.41	75.5	26.8	9.3	1.31		11.1	7.4	0.3	0.82	15.9	12.3	5.9	4.4	0.74	1.03	0.98	1.00	0.53	1.30		0.85	1.91				0.00	0.00
46.50	46.40	1.40	0.47	76.9	27.4	9.5	1.24		14.1	7.2	0.2	0.82	18.8	12.0	5.8	4.2	0.74	1.03	0.98	1.00	0.53	1.30		0.85	1.84				0.00	0.00
46.60	46.53	1.82	0.61	80.1	28.9	10.1	1.09		9.4	6.5	0.2	0.82	14.2	11.4	5.8	3.7	0.74	1.03	0.98	1.00	0.53	1.30		0.85	1.68				0.00	0.00
46.70	46.66	2.31	0.77	83.0	30.3	10.7	0.97		8.6	6.0	0.2	0.81	13.4	10.8	5.8	3.4	0.74	1.03	0.98	1.00	0.53	1.30		0.86	1.56				0.00	0.00
46.90	46.80	2.32	0.77	83.1	30.4	10.7	0.96		8.6	5.9	0.2	0.81	13.4	10.8	5.8	3.3	0.74	1.03	0.98	1.00	0.53	1.30		0.86	1.56				0.00	0.00
47.00	46.93	2.46	0.82	83.8	30.8	10.9	0.93		8.3	5.7	0.2	0.81	13.1	10.6	5.8	3.2	0.74	1.03	0.98	1.00	0.53	1.30		0.86	1.53				0.00	0.00
47.10	47.07	2.25	0.75	82.9	30.3	10.7	0.97		6.9	5.7	0.2	0.81	11.7	10.6	5.8	3.2	0.74	1.03	0.98	1.00	0.53	1.30		0.86	1.57				0.00	0.00
47.30	47.20	2.47	0.82	83.9	30.8	10.9	0.93		8.3	5.6	0.2	0.81	13.1	10.4	5.8	3.1	0.74	1.03	0.98	1.00	0.53	1.30		0.86	1.53				0.00	0.00
47.40	47.32	2.44	0.81	83.8	30.8	10.8	0.93		6.7	5.6	0.2	0.81	11.5	10.4	5.8	3.1	0.74	1.03	0.98	1.00	0.53	1.30		0.86	1.54				0.00	0.00
47.50	47.46	2.24	0.75	82.6	30.1	10.6	0.98		8.8	6.0	0.2	0.81	13.5	10.8	5.8	3.3	0.74	1.03	0.98	1.00	0.53	1.30		0.86	1.59				0.00	0.00
47.70	47.60	2.17	0.72	82.0	29.8	10.5	1.00		12.0	6.4	0.2	0.81	16.6	11.2	5.8	3.6	0.74	1.03	0.98	1.00	0.53	1.30		0.87	1.62				0.00	0.00
47.80	47.72	1.49	0.50	77.4	27.7	9.6	1.20		14.0	7.3	0.2	0.81	18.6	12.0	5.8	4.1	0.73	1.03	0.98	1.00	0.53	1.30		0.87	1.84				0.00	0.00
47.90	47.84	0.57	0.19	58.0	20.1	6.7	2.61		21.4	11.7	0.5	0.81	25.7	16.3	6.0	7.1	0.73	1.04	0.97	1.00	0.53	1.30	2.00	0.87	3.38				0.00	0.00
48.00	47.97	0.88	0.29	67.8	23.6	8.1	1.77		19.9	9.5	0.3	0.81	24.2	14.2	6.0	5.6	0.73	1.03	0.98	1.00	0.53	1.01	1.91	0.87	2.46				0.00	0.00
48.20	48.10	0.88	0.29	67.7	23.6	8.1	1.77		20.0	9.6	0.3	0.80	24.3	14.3	6.0	5.7	0.73	1.03	0.98	1.00	0.53	1.01	1.91	0.87	2.47				0.00	0.00
48.30	48.24	0.94	0.31	69.3	24.2	8.3	1.65		18.9	9.1	0.3	0.80	23.2	13.8	5.9	5.3	0.73	1.03	0.98	1.00	0.53	0.95	1.79	0.87	2.35				0.00	0.00
48.50	48.39	0.94	0.31	69.2	24.2	8.3	1.66		19.0	9.3	0.3	0.80	23.3	14.0	5.9	5.4	0.73	1.03	0.98	1.00	0.53	0.95	1.80	0.87	2.37				0.00	0.00
48.60	48.52	0.88	0.29	67.7	23.6	8.1	1.76		15.1	9.5	0.3	0.80	19.5	14.1	6.0	5.6	0.73	1.03	0.97	1.00	0.53	1.01	1.91	0.88	2.48				0.00	0.00
48.70	48.64	0.95	0.32	69.6	24.3	8.3	1.63		14.1	9.0	0.3	0.80	18.5	13.6	5.9	5.2	0.73	1.03	0.98	1.00	0.53	0.93	1.77	0.88	2.35				0.00	0.00
48.80	48.78	1.06	0.35	72.1	25.4	8.7	1.47		12.9	8.4	0.3	0.80	17.4	13.0	5.9	4.8	0.73	1.03	0.98	1.00	0.53	0.84	1.60	0.88	2.18				0.00	0.00
49.00	48.90	1.10	0.37	73.1	25.8	8.9	1.41		12.4	8.0	0.3	0.80	16.9	12.7	5.9	4.6	0.73	1.03	0.98	1.00	0.53	0.81	1.54	0.88	2.12				0.00	0.00
49.10	49.03	1.11	0.37	73.4	25.9	9.0	1.40		12.3	7.9	0.3	0.80	16.8	12.6	5.9	4.5	0.73	1.03	0.97	1.00	0.53	0.80	1.52	0.88	2.10				0.00	0.00
49.20	49.17	1.10	0.37	73.0	25.8	8.9	1.42		12.5	8.0	0.3	0.80	17.0	12.7	5.9	4.5	0.73	1.03	0.97	1.00	0.53	0.81	1.54	0.88	2.13				0.00	0.00
49.30	49.29	1.04	0.35	71.7	25.2	8.7	1.49		13.1	8.4	0.3	0.80	17.5	13.1	5.9	4.8	0.73	1.03	0.97	1.00	0.53	0.85	1.62	0.88	2.22				0.00	0.00
49.50	49.42	0.97	0.32	69.9	24.5	8.4	1.60		14.0	9.1	0.3	0.80	18.4	13.7	5.9	5.2	0.72	1.03	0.97	1.00	0.53	0.92	1.74	0.89	2.35				0.00	0.00
49.60	49.56	0.99	0.33	70.4	24.6	8.5	1.57		18.5	9.1	0.3	0.79	22.6	13.6	5.9	5.1	0.72	1.03	0.97	1.00	0.52	0.90	1.71	0.89	2.32				0.00	0.00
49.80	49.69	1.01	0.34	70.6	24.7	8.5	1.56		18.3	9.1	0.3	0.79	22.4	13.7	5.9	5.2	0.72	1.03	0.97	1.00	0.52	1.30		0.89	2.31				0.00	0.00
49.90	49.82	0.92	0.31	68.4	23.9	8.2	1.70		19.9	9.9	0.3	0.79	23.9	14.4	5.9	5.6	0.72	1.03	0.97	1.00	0.52	1.30		0.89	2.47				0.00	0.00
49.90	49.91	0.77	0.26	64.2	22.3	7.6	2.01		23.2	10.9	0.4	0.79	27.1	15.4	6.0	6.3	0.72	1.03	0.97	1.00	0.52	1.15	2.00	0.89	2.83				0.00	0.00

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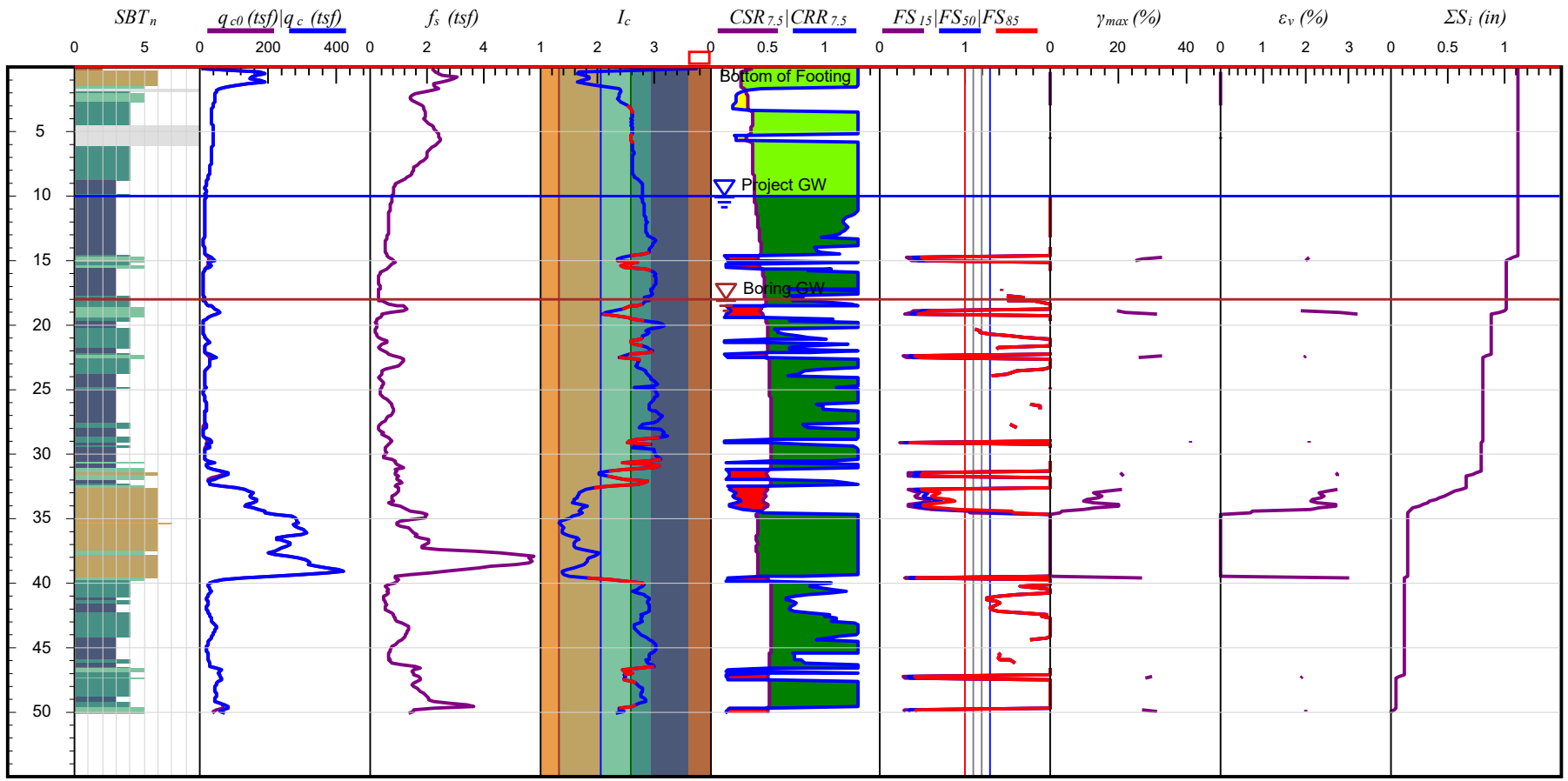

- Sensitive fine grained
- Organic soils - peats
- Clay to silty clay
- Silty clay to clayey silt
- Sandy silt to silty sand
- Silty sand to clean sand
- Dense sand to gravelly sand
- Clayey sand to very stiff sand
- Very stiff fine grained *

* Overconsolidated or cemented

Silt Correction:
$K=(1-FC)^{0.75}$

Earthquake & Groundwater Information:
Magnitude = 6.51
Max. Acceleration = 0.648 g
Project GW = 10 ft
Maximum Settlement = 1.12 in
Settl. at Bottom of Footing = 1.12 in

Liquefaction: Boulanger & Idriss (2010-16)
Settl.: [dry] Pradel (1998); [sat] Idriss & Boulanger (2008)
Lateral spreading: Idriss & Boulanger (2008)
M correction: [Sand; Clay] Boulanger & Idriss(2004)
σv correction: Idriss & Boulanger (2008)
Stress reduction: Idriss & Boulanger (2008)

GORIAN & ASSOCIATES, INC

Seismic Settlement Potential - CPT Data

Project:	Canoga Park High School Modernization				
Location:	6850 Topanga Canyon Blvd.				
Project No.:	2880-83-3-100	CPT No.:	CPT-19	Figure:	3

X:\2880-0-0-LA Unified Sch Dist-Master File\2880-83 Canoga Park High Sch\2880-83-3 Comprensive Modernization\Seismic Settlement\GeoSuite_2880-3-3-100_CPT-19.csv

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Z_b (ft)	Z_m (ft)	q_c (tsf)	f_s (tsf)	u_2 (tsf)	q_t (tsf)	R_f	SBT	γ (pcf)	σ_{v0} (tsf)	σ_{v0}' (tsf)	Q_t	Q_{tn}	F_R	SBT_n	I_c	q_{c1N}	K_c	$Q_{tn,cs}$	$(SBT)_{Ic}$	B_q	$(SBT)_{Bq}$	F_C (%)	c	R	V_s (ft/s)	G_0 (tsf)	E' (tsf)	M (tsf)	σ_p' (tsf)	OCR	S_t	S_u (tsf)	S_u/σ_{v0}'	φ (°)	c' (tsf)
0.30	0.17	3.9	2.18	0.01	3.9	77.16	2	125	0.01	0.01	14.9	6.3	55.45	2	3.75	6.3	0.00	6.3	2	0.00	1	100.00	0.54	273.9	470.2	430		25	1.31	2.1	0.1	0.28	0.45	26.4	0.28
0.50	0.41	174.1	2.32	0.02	174.1	1.36	8	133	0.03	0.03	658.1	279.7	1.33	6	1.69	279.7	1.03	279.7	6	0.00	1	5.93	0.35	273.4	848.9	1,489	1,063	2,125	0.27	10.4				44.5	0.01
0.60	0.53	192.2	2.43	0.00	192.2	1.27	8	133	0.03	0.03	726.5	308.7	1.27	6	1.65	308.8	1.00	308.8	6	0.00	1	5.15	0.35	273.4	867.6	1,560	1,110	2,220	0.38	11.1				45.0	0.01
0.70	0.66	165.5	2.55	0.00	165.5	1.55	8	133	0.04	0.04	625.5	265.8	1.54	6	1.75	265.9	1.07	265.9	6	0.00	1	7.16	0.37	273.4	861.5	1,538	1,094	2,189	0.43	10.1				44.3	0.01
0.90	0.80	154.2	3.05	0.00	154.2	1.98	7	134	0.05	0.05	582.7	247.6	1.98	6	1.86	247.7	1.15	267.5	6	0.00	1	9.44	0.38	273.4	889.2	1,653	1,166	2,332	0.50	9.6				43.9	0.01
1.00	0.94	149.4	2.95	-0.03	149.4	1.99	7	134	0.06	0.06	564.7	240.0	1.98	6	1.87	240.1	1.15	262.4	6	0.00	1	9.61	0.38	273.4	879.6	1,614	1,141	2,282	0.58	9.4				43.8	0.01
1.10	1.06	176.2	2.75	-0.04	176.2	1.57	8	134	0.07	0.07	665.8	283.0	1.56	6	1.74	283.1	1.06	283.1	6	0.00	1	6.92	0.37	273.4	882.1	1,621	1,147	2,295	0.73	10.5				44.6	0.01
1.30	1.19	192.2	2.52	-0.01	192.1	1.31	8	134	0.08	0.08	726.1	308.6	1.31	6	1.66	308.7	1.00	308.7	6	0.00	1	5.36	0.37	273.4	873.9	1,586	1,126	2,252	0.87	11.1				45.0	0.02
1.40	1.32	142.9	2.24	0.00	142.9	1.58	8	132	0.09	0.09	539.8	229.4	1.57	6	1.80	229.5	1.10	231.6	6	0.00	1	8.08	0.39	273.5	823.3	1,391	999	1,999	0.79	9.1				43.6	0.02
1.50	1.45	106.2	2.25	0.01	106.2	2.13	7	131	0.10	0.10	401.3	170.5	2.12	6	1.98	170.7	1.27	221.7	6	0.00	1	12.45	0.41	273.5	797.1	1,297	937	1,874	0.71	7.4				42.2	0.01
1.70	1.58	76.6	2.29	0.01	76.6	3.01	6	131	0.10	0.10	289.3	122.9	2.99	5	2.19	123.1	1.62	192.8	5	0.00	1	18.52	0.43	273.6	770.3	1,205	875	1,750	0.61	5.9				40.6	0.01
1.80	1.71	58.2	2.39	0.01	58.2	4.12	5	130	0.11	0.11	219.5	93.3	4.11	9	2.37	93.5	2.18	165.4	5	0.00	1	25.15	0.45	273.6	753.5	1,149	837	813	0.53	4.7				39.3	0.01
1.90	1.85	51.3	2.17	0.02	51.3	4.22	5	129	0.12	0.12	193.4	82.2	4.23	9	2.41	82.4	2.36	152.8	5	0.00	1	26.97	0.46	273.7	727.7	1,063	781	716	0.52	4.2				38.7	0.01
2.00	1.98	48.4	1.89	0.02	48.4	3.90	5	128	0.13	0.13	182.3	77.5	3.91	4	2.40	77.7	2.32	146.5	5	0.00	1	26.58	0.47	273.7	702.3	981	727	675	0.52	4.0				38.4	0.01
2.20	2.11	45.8	1.61	0.00	45.8	3.52	5	127	0.14	0.14	172.7	73.4	3.53	5	2.39	73.6	2.24	140.8	5	0.00	1	25.86	0.47	273.7	675.9	899	674	640	0.53	3.9				38.1	0.01
2.30	2.24	44.4	1.47	-0.02	44.4	3.32	5	126	0.15	0.15	167.1	71.0	3.33	5	2.38	71.3	2.21	137.6	5	0.00	1	25.51	0.48	273.7	661.2	855	645	619	0.55	3.7				38.0	0.01
2.40	2.37	43.6	1.40	-0.03	43.6	3.22	5	125	0.15	0.15	164.4	69.9	3.23	5	2.37	70.1	2.19	135.9	5	0.00	1	25.29	0.48	273.7	653.4	833	630	609	0.57	3.7				37.9	0.01
2.60	2.51	44.6	1.39	-0.03	44.6	3.13	6	125	0.16	0.16	167.8	71.3	3.14	5	2.36	71.6	2.13	137.3	5	0.00	1	24.70	0.48	273.7	654.0	834	631	621	0.61	3.8				38.0	0.01
2.70	2.63	44.8	1.46	-0.03	44.7	3.26	5	126	0.17	0.17	168.5	71.6	3.27	5	2.37	71.9	2.18	138.1	5	0.00	1	25.17	0.48	273.7	660.4	853	643	624	0.64	3.8				38.0	0.01
2.80	2.76	43.1	1.59	-0.03	43.1	3.68	5	126	0.18	0.18	162.2	69.0	3.70	4	2.42	69.2	2.38	136.2	5	0.00	1	27.20	0.48	273.7	668.8	878	660	601	0.65	3.6				37.8	0.01
3.00	2.90	41.2	1.71	-0.03	41.2	4.16	5	127	0.19	0.19	155.0	65.9	4.18	4	2.47	66.2	2.61	133.7	5	0.00	1	29.43	0.49	273.7	675.9	900	674	574	0.66	3.5				37.6	0.01
3.10	3.02	38.7	1.82	-0.03	38.7	4.71	4	127	0.20	0.20	145.4	61.8	4.73	4	2.53	62.1	2.91	129.8	5	0.00	1	32.05	0.49	273.8	679.3	912	680	539	0.65	3.3				37.3	0.01
3.20	3.16	37.7	1.87	-0.04	37.6	4.97	3	127	0.20	0.20	141.5	60.2	4.99	4	2.56	60.5	3.05	128.2	5	0.00	1	33.23	0.50	273.8	681.0	917	684	524	0.66	3.2				37.2	0.01
3.40	3.30	36.5	1.89	-0.05	36.5	5.19	3	127	0.21	0.21	137.1	58.3	5.22	4	2.58	58.6	3.18	126.2	5	0.00	1	34.35	0.50	273.8	680.3	915	682	508	0.67	3.1				37.0	0.01
3.50	3.43	35.3	1.93	-0.05	35.3	5.47	3	127	0.22	0.22	132.5	56.3	5.51	4	2.61	56.7	0.00	56.7	4	0.00	1	35.67	0.50	273.8	680.4	916		491	11.68	18.8	1.3	2.50	4.02	36.9	2.50
3.60	3.56	34.5	1.94	-0.05	34.5	5.61	3	127	0.23	0.23	129.7	55.1	5.65	4	2.62	55.5	0.00	55.5	4	0.00	1	36.36	0.51	273.8	679.2	913		480	11.43	18.4	1.3	2.45	3.94	36.8	2.45
3.80	3.70	34.5	1.94	-0.05	34.5	5.61	3	127	0.24	0.24	129.6	55.1	5.65	4	2.62	55.5	0.00	55.5	4	0.00	1	36.36	0.51	273.8	679.1	912		480	11.43	18.4	1.3	2.45	3.94	36.8	2.45
3.90	3.82	34.9	1.94	-0.05	34.9	5.57	3	127	0.25	0.25	130.9	55.6	5.61	4	2.62	56.0	0.00	56.0	4	0.00	1	36.12	0.51	273.8	680.3	916		485	11.54	18.5	1.3	2.47	3.97	36.8	2.47
4.00	3.95	34.9	1.87	-0.06	34.9	5.35	3	127	0.25	0.25	131.0	55.7	5.39	4	2.60	56.1	0.00	56.1	4	0.00	1	35.45	0.51	273.8	674.8	899		485	11.56	18.6	1.3	2.48	3.98	36.8	2.48
4.20	4.09	35.2	1.92	-0.06	35.2	5.47	3	127	0.26	0.26	131.9	56.1	5.51	4	2.61	56.5	0.00	56.5	4	0.00	1	35.71	0.51	273.8	679.4	913		489	11.63	18.7	1.3	2.49	4.01	36.8	2.49
4.30	4.22	36.2	2.00	-0.08	36.2	5.52	3	128	0.27	0.27	132.0	57.7	5.56	4	2.60	58.2	0.00	58.2	4	0.00	1	35.47	0.51	273.8	687.0	936		503	11.97	19.2	1.3	2.56	4.12	37.0	2.56
4.40	4.34	35.4	2.08	-0.08	35.4	5.89	3	128	0.28	0.28	125.4	56.4	5.93	4	2.63	56.8	0.00	56.8	4	0.00	1	36.82	0.51	273.8	690.8	949		491	11.69	18.8	1.2	2.51	4.03	36.9	2.51
4.50	4.47	37.8	2.15	-0.08	37.7	5.70	3	128	0.29	0.29	130.1	60.2	5.75	4	2.60	60.7	0.00	60.7	4	0.00	1	35.40	0.51	273.8	701.0	980		524	12.48	20.1	1.2	2.67	4.30	37.2	2.67
4.70	4.61	38.1	2.21	-0.08	38.1	5.80	3	129	0.30	0.30	127.2	60.7	5.84	9	2.60	61.2	0.00	61.2	4	0.00	1	35.55	0.51	273.8	705.4	994		529	12.59	20.2	1.2	2.70	4.34	37.2	2.70
4.80	4.74	38.1	2.26	-0.08	38.1	5.94	3	129	0.31	0.31	123.7	60.7	5.99	9	2.61	61.2	0.00	61.2	4	0.00	1	35.95	0.51	273.8	708.9	1,005		529	12.59	20.2	1.2	2.70	4.33	37.2	2.70
4.90	4.86	38.9	2.32	-0.08	38.9	5.95	3	129	0.31	0.31	123.3	62.0	6.00	9	2.61	62.5	0.00	62.5	4	0.00	1	35.69	0.51	273.8	714.2	1,022		540	12.86	20.7	1.2	2.76	4.43	37.3	2.76
5.10	5.00	39.6	2.38	-0.08	39.6	6.00	3	129	0.32	0.32	122.1	63.2	6.05	9	2.60	63.7	0.00	63.7	4	0.00	1	35.56	0.51	273.8	719.6	1,040		550	13.10	21.1	1.2	2.81	4.51	37.4	2.81
5.20	5.13	39.9	2.41	-0.07	39.9	6.04	3	129	0.33	0.33	119.8	63.6	6.09	9	2.60	64.2	0.00	64.2	4	0.00	1	35.58	0.51	273.8	722.4	1,049		554	13.20	21.2	1.2	2.83	4.54	37.4	2.83
5.30	5.26	40.4	2.42	-0.07	40.4	6.00	3	129	0.34	0.34	118.3	64.4	6.05	9	2.60	64.9	3.30	134.7	5	0.00	1	35.30	0.51	273.8	724.2	1,055	773	561	1.17	3.4				37.5	0.02
5.50	5.40	40.7	2.43	-0.06	40.7	5.98	3	129	0.35	0.35	115.9	64.8	6.04	9	2.60	65.3	3.29	135.2	5	0.00	1	35.19	0.51	273.8	725.3	1,058	776	564	1.20	3.5				37.5	0.02
5.60	5.52	40.7	2.44	-0.06	40.7	6.01	3	129	0.36	0.36	113.3	64.8	6.07	9	2.60	65.3	3.30	135.2	5	0.00	1	35.26	0.51	273.8	725.9	1,060	777	564	1.23	3.5				37.5	0.02
5.70	5.65	40.6	2.44	-0.05	40.6	6.01	3	129	0.36	0.36	110.5	64.7	6.07	9	2.60	65.3	3.30	135.1	5	0.00	1	35.29	0.51	273.8	725.7	1,059	776	563	1.26	3.5				37.5	0.03
5.90	5.80	39.5	2.41	-0.05	39.4	6.11	3	129	0.37	0.37	104.5	62.8	6.17	9	2.61	63.4	0.00	63.4	4	0.00	1	35.97	0.51	273.8	721.2	1,045		547	13.02	20.9	1.2	2.79	4.48	37.4	2.79
6.00	5.94	38.1	2.35	-0.05	38.1	6.16	3	129	0.38	0.38	98.5	60.6	6.23	9	2.63	61.2	0.00	61.2	4	0.00	1	36.60	0.52	273.8	714.2	1,023		528	12.57	20.2	1.1	2.69	4.33	37.2	2.69
6.10	6.06	37.3	2.28	-0.05	37.3	6.12	3	129	0.39	0.39	94.5	59.3	6.18	9	2.63	60.0	0.00	60.0	4	0.00	1	36.76	0.52	273.8	708.2	1,003		517	12.31	19.8	1.1	2.64	4.24	37.1	2.64
6.30	6.19	36.6	2.19	-0.05	36.6	5.98	3	128	0.40	0.40	90.8	58.2	6.05	4	2.63	58.9	0.00	58.9	4	0.00	1	36.67	0.52	273.8	700.7	980		507	12.07	19.4	1.2	2.59	4.16	37.0	2.59
6.40	6.31	36.2	2.12	-0.05	36.2	5.85	3	128	0.41	0.41	88.0	57.5	5.92	4	2.62	58.1	0.00	58.1	4	0.00	1	36.47	0.52	273.8	694.6	961		501	11.93	19.2	1.2	2.56	4.11	37.0	2.56
6.50	6.44	35.4	2.06	-0.04	35.4	5.81	3	128	0.41	0.41	84.3	56.2	5.88	4	2.63	56.9	0.00	56.9	4	0.00	1	36.66	0.53	273.9	688.6	942		490	11.66	18.7	1.2	2.50	4.02	36.8	2.50
6.70	6.58	34.3	2.02	-0.04	34.3	5.88	3	128	0.42	0.42	79.9	54.4	5.95	4	2.64	55.1	0.00	55.1	4	0.00	1	37.33	0.53	273.9	683.2	926		474	11.29	18.1	1.2	2.42	3.89	36.7	2.42
6.80	6.71	34.2	2.00	-0.04	34.2	5.85	3	128	0.43	0.43	78.2	54.3	5.93	4	2.64	55.0	0.00	55.0	4	0.00	1	37.28	0.53	273.9	682.2	922		473	11.27	18.1	1.2	2.41	3.88	36.7	2.41
6.90	6.83	35.0	2.03	-0.03	35.0	5.80	3	128	0.44	0.44	78.5	55.5	5.87	4	2.63	56.2	0.00	56.2	4	0.00	1	36.82	0.53	273.9	685.4	932		483	11.51	18.5	1.2	2.47	3.96	36.8	2.47
7.00	6.97	35.3	2.03	-0.03	35.3	5.74	3	128	0.45	0.45	77.7	56.0	5.81	4	2.62	56.6	0.00	56.6	4	0.00	1	36.51	0.53	273.9	686.1	934		488	11.62	18.7	1.2	2.49	4.00	36.8	2.49
7.20	7.10	35.3	1.93	-0.03	35.3	5.46	3	127	0.46	0.46	76.2	55.9	5.53	4	2.61	56.0	0.00	56.0	4	0.00	1	35.73	0.53	273.9	678.7	911		487	11.60	18.6	1.3	2.49	3.99	36.8	2.49
7.30	7.23	34.4	1.88	-0.02	34.4	5.45	3	127	0.47	0.47	73.0	54.6	5.52	4	2.61	54.3	0.00	54.3	4	0.00	1	36.05	0.53	273.9	673.2	895		476	11.32	18.2	1.3	2.43	3.90	36.7	2.43
7.40	7.36	33.5	1.78	-0.02	33.5	5.32	3	127	0.47	0.47	69.7	53.0	5.40	4	2.61	52.5	0.00	52.5	4	0.00	1	36.09	0.53	273.9	663.8	867		462	11.00	17.7	1.3	2.36	3.79	36.6	2.36
7.60	7.49	32.5	1.70	-0.04	32.5	5.21	3	126	0.48	0.48	66.5	51.5	5.29	4	2.62	50.7	0.00	50.7	4	0.00	1	36.17	0.54	273.9	654.9	841		449	10.69	17.2	1.3	2.29	3.68	36.4	2.29
7.70	7.62	31.2	1.64	-0.04	31.2	5.24	3	126	0.49	0.49	62.7	49.4	5.33	4	2.63	48.5	0.00	48.5	4	0.00	1	36.88	0.54	273.9	647.2	819		430	10.25	16.5	1.3	2.20	3.53	36.2	2.20
7.80	7.76	30.8	1.56	-0.05	30.8	5.05	3	125	0.50	0.50	60.7	48.7	5.14	4	2.62	47.4	0.00	47.4	4	0.00	1	36.49	0.54	273.9	639.2	796		424	10.09	16.2	1.4	2.16	3.48	36.2	2.16
8.00	7.89	30.7	1.54	-0.04	30.7	5.01	3	125	0.51	0.51	59.6	48.6	5.09	4	2.62	46.9	0.00	46.9	4	0.00	1	36.39	0.54	273.9	637.8	792		423	10.08	16.2	1.4	2.16	3.47	36.1	2.16
8.10	8.02	30.7	1.54	-0.04	30.7	5.01	3	125	0.52	0.52	58.7	48.6	5.10	4	2.62	46.5	0.00	46.5	4	0.00	1	36.40	0.54	273.9	637.8	792		423	10.07	16.2	1.4	2.16	3.47	36.1	2.16
8.20	8.14	29.9	1.49	-0.03	29.9	5.00	3	125	0.52	0.52	56.2	47.2	5.09	4	2.63	45.0	0.00	45.0	4	0.00	1	36.79	0.55	273.9	632.1	776		411	9.80	15.7	1.4	2.10	3.37	36.0	2.10
8.30	8.27	28.1	1.45	-0.03	28.1	5.17	3	125	0.53	0.53	52.0	44.3	5.27	4	2.62	42.2	0.00	42.2	4	0.00	1	36.19	0.55	273.9	607.7	715		386	9.19	14.8	1.3	1.97	3.17	35.7	1.97
8.50	8.40	26.3	1.40	-0.03	26.3	5.33	3	124	0.54	0.54	47.7	41.3	5.45	4	2.65	39.3	0.00	39.3	4	0.00	1	37.97	0.56	273.9	600.1	695		360	8.57	13.8	1.3	1.84	2.95	35.4	1.84
8.60	8.54	25.3	1.32	-0.04	25.3	5.21	3	124	0.55	0.55	45.3	39.8	5.33	4	2.66	37.7	0.00	37.7	4	0.00	1	38.40	0.56	273.9	592.3	674		347	8.26	13.3	1.3	1.77	2.85	35.2	1.77
8.80	8.68	23.2	1.21	-0.04	23.1	5.22	3	123	0.56	0.56	40.6	36.1	5.35	4	2.69	34.4	0.00	34.4	4	0.00	1	40.16	0.57	274.0	577.7	637		316	7.53	12.0	1.3	1.61	2.58	34.7	1.61
8.90	8.81	21.1	1.10	-0.05	21.1	5.22	3	122	0.56	0.56	36.4	32.7	5.37	3	2.73	31.4	0.00	31.4	4	0.00	1	41.98	0.57	274.0	562.8	600		288	6.85	10.9	1.3	1.47	2.33	34.3	1.47
9.00	8.94	19.0	0.99	-0.06	19.0	5.20	3	121	0.57	0.57	32.2	29.2	5.36	3	2.77	28.3	0.00	28.3	4	0.00	1	44.04	0.58	274.0	545.9	559		258	6.15	9.7	1.3	1.32	2.08	33.7	1.32
9.20	9.09	17.9	0.90	-0.07	17.9	5.05	3	120	0.58	0.58	29.8	27.1	5.22	3	2.78	26.5	0.00	26.5	4	0.00	1	44.95	0.58	274.0	534.4	532		242	5.77	9.0	1.4	1.24	1.94	33.4	1.24
9.30	9.21	17.3	0.86	-0.07	17.3	4.96	3	119	0.59	0.59	28.4	26.0	5.14	3	2.79	25.5	0.00	25.5	4	0.00	1	45.53	0.59	274.0	528.6	519		234	5.57	8.7	1.4	1.19	1.85	33.2	1.19

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Z_b (ft)	Z_m (ft)	q_c (tsf)	f_s (tsf)	u_2 (tsf)	q_t (tsf)	R_f	SBT	γ (pcf)	σ_{v0} (tsf)	σ_{v0}' (tsf)	Q_t	Q_{tn}	F_R	SBT_n	I_c	q_{c1N}	K_c	$Q_{tn,cs}$	$(SBT)_{Ic}$	B_q	$(SBT)_{Bq}$	F_C (%)	c	R	V_s (ft/s)	G_0 (tsf)	E' (tsf)	M (tsf)	σ_p' (tsf)	OCR	S_t	S_u (tsf)	S_u/σ_{v0}'	φ (°)	c' (tsf)
9.40	9.33	17.0	0.84	-0.07	17.0	4.91	3	119	0.60	0.60	27.5	25.2	5.10	3	2.80	24.8	0.00	24.8	4	0.00	1	45.95	0.59	274.0	525.8	512		229	5.46	8.4	1.4	1.17	1.80	33.0	1.17
9.50	9.46	16.9	0.83	-0.07	16.9	4.89	3	119	0.60	0.60	27.0	24.8	5.07	3	2.80	24.5	0.00	24.5	4	0.00	1	46.20	0.59	274.0	525.9	512		228	5.44	8.3	1.4	1.17	1.77	32.9	1.17
9.60	9.58	17.2	0.82	-0.07	17.2	4.79	3	119	0.61	0.61	27.2	25.0	4.97	3	2.80	24.7	0.00	24.7	4	0.00	1	45.73	0.59	274.0	527.8	516		232	5.53	8.3	1.4	1.19	1.79	33.0	1.19
9.80	9.72	17.2	0.81	-0.07	17.2	4.73	3	119	0.62	0.62	26.7	24.6	4.91	3	2.80	24.4	0.00	24.4	4	0.00	1	45.85	0.59	274.0	527.6	515		232	5.51	8.2	1.4	1.18	1.76	32.9	1.18
9.90	9.87	17.1	0.81	-0.07	17.1	4.70	3	119	0.63	0.63	26.3	24.3	4.89	3	2.80	24.1	0.00	24.1	4	0.00	1	46.09	0.59	274.0	528.1	515		231	5.49	8.1	1.5	1.18	1.73	32.8	1.18
10.00	9.97	17.2	0.75	0.00	17.2	4.35	3	118	0.63	0.63	26.1	24.1	4.51	4	2.78	24.0	0.00	24.0	4	0.00	1	44.87	0.59	274.0	521.7	501		231	5.51	8.0	1.6	1.18	1.72	32.8	1.18
10.10	10.07	17.3	0.74	-0.06	17.3	4.26	3	118	0.64	0.64	26.2	24.1	4.43	4	2.77	24.1	0.00	24.1	4	0.00	1	44.50	0.59	274.0	521.8	501		233	5.56	8.0	1.6	1.19	1.72	32.8	1.19
10.20	10.19	17.0	0.76	-0.06	17.0	4.46	3	118	0.65	0.64	25.6	23.7	4.63	3	2.79	23.6	0.00	23.6	4	0.00	1	45.69	0.59	274.0	523.9	505		229	5.46	7.9	1.5	1.17	1.69	32.7	1.17
10.40	10.31	17.0	0.76	-0.04	16.9	4.47	3	118	0.65	0.64	25.3	23.5	4.65	3	2.80	23.4	0.00	23.4	4	0.00	1	45.94	0.59	274.0	524.1	506		228	5.43	7.8	1.5	1.16	1.68	32.7	1.16
10.50	10.44	17.1	0.74	-0.05	17.1	4.30	3	118	0.66	0.65	25.4	23.5	4.47	3	2.79	23.6	0.00	23.6	4	0.00	1	45.21	0.59	274.0	522.5	502		230	5.49	7.8	1.6	1.18	1.68	32.7	1.18
10.60	10.57	16.3	0.73	-0.05	16.3	4.47	3	118	0.67	0.65	24.1	22.4	4.66	3	2.82	22.5	0.00	22.5	4	0.00	1	46.92	0.60	274.0	519.5	495		219	5.22	7.5	1.5	1.12	1.60	32.5	1.12
10.80	10.71	16.0	0.71	-0.03	16.0	4.46	3	118	0.68	0.66	23.3	21.8	4.66	3	2.83	21.9	0.00	21.9	4	0.00	1	47.51	0.60	274.1	516.3	488		214	5.09	7.3	1.5	1.09	1.55	32.3	1.09
10.90	10.84	16.1	0.69	-0.02	16.1	4.31	3	118	0.68	0.66	23.3	21.8	4.50	3	2.82	21.9	0.00	21.9	4	0.00	1	46.91	0.60	274.1	514.4	484		215	5.12	7.3	1.6	1.10	1.55	32.3	1.10
11.00	10.97	16.0	0.69	-0.02	16.0	4.31	3	118	0.69	0.66	23.1	21.6	4.50	3	2.82	21.8	0.00	21.8	4	0.00	1	47.09	0.60	274.1	514.5	484		214	5.10	7.2	1.6	1.09	1.54	32.3	1.09
11.20	11.11	15.9	0.69	-0.03	15.9	4.34	3	118	0.70	0.67	22.8	21.3	4.54	3	2.83	21.5	0.00	21.5	4	0.00	1	47.48	0.60	274.1	514.8	484		213	5.07	7.1	1.6	1.09	1.52	32.2	1.09
11.30	11.25	15.8	0.67	-0.03	15.8	4.25	3	117	0.71	0.67	22.5	21.0	4.46	3	2.83	21.3	0.00	21.3	4	0.00	1	47.46	0.60	274.1	512.1	478		211	5.02	7.0	1.6	1.07	1.50	32.1	1.07
11.40	11.38	15.7	0.65	-0.03	15.7	4.12	3	117	0.72	0.67	22.3	20.8	4.32	3	2.82	21.1	0.00	21.1	4	0.00	1	47.10	0.60	274.1	509.1	472		210	5.00	6.9	1.6	1.07	1.49	32.1	1.07
11.60	11.50	15.3	0.64	-0.02	15.3	4.18	3	117	0.72	0.68	21.6	20.2	4.39	3	2.83	20.5	0.00	20.5	4	0.00	1	47.97	0.60	274.1	507.2	468		204	4.87	6.7	1.6	1.04	1.45	32.0	1.04
11.70	11.63	15.0	0.63	-0.02	15.0	4.20	3	117	0.73	0.68	20.9	19.7	4.41	3	2.85	20.0	0.00	20.0	4	0.00	1	48.64	0.60	274.1	504.7	462		200	4.75	6.6	1.6	1.02	1.41	31.8	1.02
11.80	11.75	14.9	0.63	-0.02	14.9	4.24	3	117	0.74	0.68	20.7	19.5	4.47	3	2.85	19.8	0.00	19.8	4	0.01	1	49.09	0.61	274.1	505.3	463		198	4.72	6.5	1.6	1.01	1.39	31.8	1.01
12.00	11.88	14.7	0.64	0.00	14.7	4.35	3	117	0.75	0.69	20.4	19.2	4.58	3	2.86	19.5	0.00	19.5	4	0.00	1	49.83	0.61	274.1	506.4	466		196	4.66	6.4	1.6	1.00	1.37	31.7	1.00
12.10	12.02	14.8	0.65	0.00	14.8	4.38	3	117	0.75	0.69	20.3	19.2	4.62	3	2.87	19.5	0.00	19.5	4	0.00	1	50.03	0.61	274.1	508.2	469		197	4.68	6.4	1.5	1.00	1.37	31.7	1.00
12.20	12.15	15.0	0.66	0.00	15.0	4.38	3	117	0.76	0.69	20.5	19.4	4.61	3	2.87	19.7	0.00	19.7	4	0.00	1	49.85	0.61	274.1	510.6	474		199	4.74	6.5	1.5	1.02	1.38	31.8	1.02
12.40	12.28	15.4	0.66	0.00	15.4	4.33	3	117	0.77	0.70	20.9	19.8	4.55	3	2.85	20.1	0.00	20.1	4	0.00	1	49.20	0.60	274.1	514.0	481		204	4.87	6.6	1.6	1.04	1.41	31.9	1.04
12.50	12.41	15.7	0.66	-0.01	15.7	4.24	3	117	0.78	0.70	21.2	20.0	4.47	3	2.84	20.4	0.00	20.4	4	0.01	1	48.60	0.60	274.1	515.6	484		208	4.96	6.7	1.6	1.06	1.43	31.9	1.06
12.60	12.54	15.5	0.66	-0.01	15.5	4.28	3	117	0.78	0.71	20.8	19.7	4.51	3	2.85	20.1	0.00	20.1	4	0.01	1	49.13	0.60	274.1	515.0	483		206	4.89	6.6	1.6	1.05	1.41	31.8	1.05
12.80	12.68	15.4	0.65	-0.01	15.4	4.24	3	117	0.79	0.71	20.6	19.5	4.47	3	2.85	19.9	0.00	19.9	4	0.01	1	49.15	0.60	274.1	514.1	481		205	4.88	6.5	1.6	1.04	1.40	31.8	1.04
12.90	12.82	15.1	0.65	-0.01	15.1	4.30	3	117	0.80	0.71	20.1	19.1	4.54	3	2.87	19.5	0.00	19.5	4	0.01	1	49.94	0.61	274.1	513.0	479		201	4.78	6.4	1.6	1.02	1.36	31.7	1.02
13.00	12.95	15.0	0.64	-0.02	15.0	4.25	3	117	0.81	0.72	19.8	18.9	4.49	3	2.87	19.3	0.00	19.3	4	0.01	1	50.02	0.61	274.1	511.5	475		199	4.74	6.3	1.6	1.02	1.35	31.6	1.02
13.10	13.07	14.4	0.61	-0.03	14.3	4.25	3	116	0.82	0.72	18.8	17.9	4.51	3	2.89	18.3	0.00	18.3	4	0.01	1	51.17	0.61	274.1	504.9	461		189	4.51	6.0	1.6	0.97	1.28	31.4	0.97
13.30	13.20	13.1	0.58	-0.03	13.1	4.44	3	116	0.82	0.72	17.0	16.3	4.74	3	2.93	16.7	0.00	16.7	4	0.01	1	54.13	0.62	274.1	496.1	443		172	4.10	5.4	1.5	0.88	1.16	30.9	0.88
13.40	13.32	11.8	0.57	-0.04	11.8	4.82	3	115	0.83	0.73	15.1	14.6	5.19	3	3.00	15.0	0.00	15.0	3	0.01	1	58.37	0.63	274.1	488.2	427		154	3.66	4.9	1.4	0.78	1.04	30.4	0.78
13.50	13.46	11.1	0.54	-0.05	11.1	4.90	3	115	0.84	0.73	14.0	13.6	5.31	3	3.03	14.0	0.00	14.0	3	0.02	1	60.50	0.63	274.1	480.9	413		139	3.41	4.5	1.3	0.73	0.97	30.1	0.73
13.70	13.60	11.3	0.51	-0.06	11.3	4.50	3	114	0.85	0.73	14.3	13.8	4.86	3	3.00	14.3	0.00	14.3	3	0.02	1	58.43	0.63	274.1	477.1	405		145	3.49	4.6	1.5	0.75	0.99	30.1	0.75
13.80	13.72	12.0	0.51	-0.05	12.0	4.23	3	115	0.85	0.74	15.1	14.6	4.56	3	2.96	15.1	0.00	15.1	3	0.02	1	55.96	0.62	274.1	480.8	412		156	3.72	4.9	1.6	0.80	1.04	30.4	0.80
13.90	13.86	12.2	0.52	-0.03	12.2	4.22	3	115	0.86	0.74	15.3	14.8	4.54	3	2.96	15.3	0.00	15.3	3	0.01	1	55.64	0.62	274.1	483.4	417		159	3.78	4.9	1.6	0.81	1.05	30.5	0.81
14.10	13.99	12.7	0.52	-0.03	12.6	4.09	3	115	0.87	0.74	15.8	15.2	4.39	3	2.94	15.7	0.00	15.7	4	0.01	1	54.33	0.62	274.1	486.2	422		165	3.93	5.1	1.6	0.84	1.09	30.6	0.84
14.20	14.13	12.9	0.51	-0.03	12.9	3.96	3	115	0.88	0.75	16.1	15.5	4.25	3	2.92	16.0	0.00	16.0	4	0.01	1	53.34	0.62	274.1	487.2	424		169	4.02	5.2	1.7	0.86	1.11	30.7	0.86
14.30	14.26	13.1	0.52	-0.03	13.1	3.96	3	115	0.88	0.75	16.2	15.6	4.25	3	2.92	16.2	0.00	16.2	4	0.01	1	53.20	0.62	274.1	489.3	428		171	4.07	5.2	1.7	0.87	1.11	30.7	0.87
14.50	14.39	13.7	0.55	-0.02	13.7	4.01	3	116	0.89	0.75	17.0	16.3	4.29	3	2.91	16.9	0.00	16.9	4	0.01	1	52.40	0.62	274.1	497.8	445		180	4.27	5.4	1.7	0.92	1.17	30.9	0.92
14.60	14.51	16.0	0.59	-0.02	16.0	3.68	4	116	0.90	0.76	19.9	18.9	3.90	3	2.83	19.6	0.00	19.6	4	0.01	1	47.61	0.61	274.1	513.1	476		211	5.02	6.3	1.8	1.08	1.35	31.7	1.08
14.70	14.64	24.4	0.60	-0.02	24.4	2.95	5	119	0.91	0.76	30.9	28.7	2.55	4	2.58	29.3	3.17	88.3	5	0.01	1	34.27	0.57	274.0	547.0	553	441	329	0.76	0.8				33.6	0.01
14.90	14.78	32.8	0.65	-0.03	32.8	2.59	6	121	0.91	0.77	41.6	38.3	2.03	5	2.44	38.7	2.49	97.8	5	0.01	1	28.26	0.55	273.9	585.6	645	506	446	0.93	1.2				35.0	0.02
15.00	14.93	40.2	0.75	-0.04	40.2	2.74	6	123	0.92	0.77	51.1	46.7	1.91	5	2.36	46.8	2.14	105.9	5	0.00	1	24.80	0.54	273.9	616.4	729	560	550	1.17	1.5				36.0	0.02
15.10	15.05	42.9	0.85	-0.04	42.9	3.28	5	125	0.93	0.77	54.3	49.7	2.03	5	2.36	49.6	2.13	109.3	5	0.00	1	24.66	0.54	273.9	635.6	788	596	588	1.26	1.6				36.3	0.03
15.20	15.16	23.1	0.88	-0.03	23.0	3.80	4	120	0.94	0.78	28.5	26.9	3.96	4	2.71	27.4	0.00	27.4	4	0.01	1	41.21	0.58	274.0	578.6	626		310	7.37	9.0	1.8	1.58	1.92	33.3	1.58
15.40	15.29	30.9	0.79	-0.03	30.9	3.33	5	122	0.95	0.78	38.4	35.8	2.65	4	2.54	36.1	2.97	96.5	5	0.01	1	32.54	0.56	273.9	603.8	693	537	420	0.86	1.1				34.7	0.02
15.50	15.43	35.3	0.69	-0.03	35.3	2.77	6	122	0.95	0.78	43.8	40.5	1.99	5	2.42	40.9	2.38	100.0	5	0.01	1	27.17	0.55	273.9	598.3	680	528	481	1.00	1.3				35.3	0.02
15.60	15.57	31.8	0.67	-0.05	31.8	3.37	5	123	0.96	0.79	39.1	36.4	2.18	5	2.48	36.9	2.65	96.3	5	0.01	1	29.74	0.56	273.9	589.0	661	512	432	0.88	1.1				34.8	0.02
15.80	15.71	15.7	0.59	-0.05	15.7	3.79	4	116	0.97	0.79	18.5	17.8	4.04	3	2.86	18.6	0.00	18.6	4	0.02	1	49.60	0.61	274.1	517.6	485		206	4.90	5.9	1.8	1.05	1.27	31.4	1.05
15.90	15.83	12.8	0.47	-0.03	12.8	3.64	4	114	0.98	0.80	14.8	14.4	3.94	3	2.93	15.1	0.00	15.1	4	0.02	1	53.84	0.62	274.1	484.6	416		165	3.94	4.8	1.8	0.84	1.03	30.3	0.84
16.00	15.95	10.7	0.38	-0.02	10.7	3.53	4	112	0.98	0.80	12.1	11.8	3.89	3	3.00	12.5	0.00	12.5	3	0.02	1	58.22	0.64	274.2	457.4	364		114	3.22	3.9	1.8	0.69	0.84	29.4	0.69
16.10	16.08	9.8	0.35	-0.02	9.8	3.52	3	111	0.99	0.80	11.0	10.8	3.92	3	3.03	11.5	0.00	11.5	3	0.02	1	60.57	0.64	274.2	446.8	345		95	2.94	3.6	1.8	0.63	0.77	28.9	0.63
16.30	16.21	9.8	0.31	-0.01	9.8	3.20	4	110	1.00	0.81	10.9	10.6	3.57	3	3.01	11.4	0.00	11.4	3	0.02	1	59.13	0.65	274.2	439.6	332		93	2.93	3.5	2.0	0.63	0.76	28.9	0.63
16.40	16.34	9.2	0.30	-0.01	9.2	3.23	4	110	1.01	0.81	10.2	10.0	3.63	3	3.04	10.8	0.00	10.8	3	0.02	1	61.06	0.65	274.2	433.5	321		82	2.75	3.3	2.0	0.59	0.71	28.6	0.59
16.60	16.48	9.1	0.28	-0.01	9.1	3.10	4	109	1.01	0.81	10.0	9.8	3.49	3	3.03	10.6	0.00	10.6	3	0.03	1	60.86	0.65	274.2	429.3	314		79	2.70	3.3	2.0	0.58	0.70	28.5	0.58
16.70	16.61	9.1	0.28	0.00	9.0	3.10	4	109	1.02	0.81	9.9	9.6	3.49	3	3.04	10.5	0.00	10.5	3	0.03	1	61.21	0.65	274.2	428.5	312		77	2.68	3.2	2.0	0.57	0.69	28.4	0.57
16.80	16.73	9.1	0.29	0.00	9.1	3.16	4	110	1.03	0.82	9.9	9.7	3.56	3	3.04	10.5	0.00	10.5	3	0.03	1	61.49	0.65	274.2	430.8	316		78	2.69	3.2	2.0	0.58	0.69	28.4	0.58
16.90	16.87	9.4	0.30	0.00	9.4	3.15	4	110	1.04	0.82	10.2	10.0	3.53	3	3.03	10.9	0.00	10.9	3	0.03	1	60.51	0.65	274.2	435.5	324		84	2.80	3.3	2.0	0.60	0.72	28.6	0.60
17.10	17.01	10.2	0.33	0.00	10.2	3.23	4	111	1.04	0.82	11.1	10.8	3.60	3	3.01	11.7	0.00	11.7	3	0.02	1	58.93	0.64	274.2	447.3	345		99	3.04	3.6	2.0	0.65	0.77	29.0	0.65
17.20	17.15	10.8	0.32	0.01	10.8	3.02	4	111	1.05	0.83	11.7	11.4	3.34	3	2.97	12.3	0.00	12.3	3	0.02	1	56.33	0.64	274.2	450.0	349		111	3.23	3.8	2.1	0.69	0.82	29.2	0.69
17.30	17.27	10.9	0.29	0.01	10.9	2.72	4	110	1.06	0.83	11.8	11.5	3.01	3	2.94	12.4	0.00	12.4	4	0.02	1	54.46	0.64	274.2	444.0	338		112	3.26	3.8	2.4	0.70	0.82	29.3	0.70
17.50	17.40	10.6	0.29	0.01	10.6	2.74	4	110	1.06	0.83	11.4	11.1	3.05	3	2.95	12.0	0.00	12.0	3	0.02	1	55.46	0.64	274.2	441.5	333		105	3.17	3.7	2.3	0.68	0.79	29.1	0.68
17.60	17.54	10.7	0.32	0.01	10.7	3.02	4	111	1.07	0.84	11.5	11.2	3.35	3	2.98	12.1	0.00	12.1	3	0.02	1	56.82	0.64	274.2	450.5	350		108	3.21	3.7	2.1	0.69	0.80	29.2	0.69
17.70	17.67	11.5	0.32	0.02	11.5	2.78	4	111	1.08	0.84	12.4	12.1	3.07	3	2.93	13.0	0.00	13.0	4	0.02	1	53.68	0.64	274.2	454.1	356		125	3.47	4.0	2.3	0.74	0.86	29.5	0.74
17.90	17.80	13.0	0.30	0.02	13.0	2.35	5	111	1.09	0.84	14.2	13.7	2.55	4	2.83	14.7	0.00	14.7	4	0.02	1	47.87	0.63	274.1	458.5	363		164	3.99	4.6	2.8	0.85	0.98	30.1	0.85
18.00	17.95	11.8	0.31	0.02	11.8	2.60	5	111	1.10	0.85	12.6	12.2	2.86	3	2.90	13.2	0.00	13.2	4	0.02	1	52.21	0.63	274.2	452.9	353		131	3.55	4.1	2.5	0.76	0.87	29.6	0.76
18.10	18.08	11.8	0.31	0.02	11.8	2.59	5	111	1.10	0.85	12.6	12.3	2.85	3	2.90	13.3	0.00	13.3	4	0.02	1	52.10	0.63	274.2	453.7	354		132	3.57	4.1	2.5	0.77	0.88	29.6	0.77
18.20	18.18	14.0	0.40	0.03	14.0	2.84	5	113	1.11	0.85	15.1	14.7	3.09	4	2.86	15.7	0.00	15.7	4	0.02	1	49.43	0.62	274.1	484.3	412		181	4.30	4.9	2.3	0.92	1.05	30.4	0.92

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Z_b (ft)	Z_m (ft)	q_c (tsf)	f_s (tsf)	u_2 (tsf)	q_t (tsf)	R_f	SBT	γ (pcf)	σ_{v0} (tsf)	σ_{v0}' (tsf)	Q_t	Q_{tn}	F_R	SBT_n	I_c	q_{c1N}	K_c	$Q_{tn,cs}$	$(SBT)_{Ic}$	B_q	$(SBT)_{Bq}$	F_C (%)	c	R	V_s (ft/s)	G_0 (tsf)	E' (tsf)	M (tsf)	σ_p' (tsf)	OCR	S_t	S_u (tsf)	S_u/σ_{v0}'	φ (°)	c' (tsf)
18.40	18.32	19.6	0.67	0.03	19.6	3.40	5	118	1.12	0.86	21.6	20.9	3.62	4	2.78	21.8	0.00	21.8	4	0.01	1	44.82	0.60	274.0	551.5	557		259	6.16	7.0	2.0	1.32	1.49	32.1	1.32
18.50	18.45	26.2	0.94	0.03	26.2	3.60	5	121	1.12	0.86	29.1	28.0	3.76	4	2.69	28.8	0.00	28.8	4	0.01	1	40.03	0.58	274.0	607.3	695		351	8.35	9.3	1.9	1.79	2.00	33.5	1.79
18.60	18.57	35.5	1.20	0.03	35.5	3.39	5	124	1.13	0.86	39.8	38.1	3.50	4	2.59	38.6	3.26	100.5	5	0.01	1	35.00	0.55	273.9	668.2	859	658	481	0.98	1.1				35.0	0.02
18.80	18.70	45.9	1.27	-0.02	45.9	2.78	6	125	1.14	0.87	51.6	49.0	2.84	5	2.45	49.3	2.51	111.5	5	0.01	1	28.48	0.53	273.9	696.4	941	715	627	1.32	1.5				36.2	0.03
18.90	18.84	56.0	1.17	-0.10	56.0	2.10	7	125	1.15	0.87	62.9	59.3	2.13	5	2.30	59.5	1.95	120.0	5	0.01	1	22.65	0.52	273.8	702.5	957	728	768	1.62	1.9				37.1	0.03
19.00	18.97	58.7	0.72	-0.34	58.7	1.23	7	121	1.16	0.88	65.6	61.4	1.26	5	2.14	62.1	1.52	114.4	5	0.01	1	17.06	0.52	273.8	648.9	793	621	1,242	1.70	1.9				37.3	0.03
19.20	19.11	50.3	0.40	-0.50	50.3	0.80	7	116	1.16	0.88	55.8	52.2	0.82	5	2.09	53.4	1.42	99.4	5	0.02	1	15.42	0.53	273.9	579.7	608	495	991	1.44	1.6				36.5	0.03
19.30	19.24	35.2	0.41	-0.53	35.1	1.19	7	116	1.17	0.88	38.4	36.4	1.22	5	2.31	37.6	1.98	92.8	5	0.02	1	23.02	0.56	273.9	556.0	556	456	475	0.95	1.1				34.8	0.02
19.40	19.36	23.1	0.35	-0.51	23.0	1.55	6	114	1.18	0.89	24.6	23.6	1.62	5	2.54	24.9	2.95	82.0	5	0.04	1	32.36	0.59	274.0	513.4	465	389	305	0.89	0.6				32.7	0.01
19.60	19.50	18.0	0.26	-0.50	17.9	1.45	6	111	1.19	0.89	18.8	18.1	1.55	4	2.61	19.5	0.00	19.5	4	0.05	1	35.84	0.60	274.1	471.1	381		234	5.58	6.0	4.6	1.19	1.29	31.4	1.19
19.70	19.64	12.1	0.21	-0.47	12.0	1.77	5	108	1.19	0.89	12.1	11.8	1.97	4	2.83	13.1	0.00	13.1	4	0.07	1	47.55	0.64	274.2	435.1	318		128	3.61	3.9	3.6	0.77	0.85	29.4	0.77
19.80	19.76	8.5	0.20	-0.47	8.4	2.42	4	107	1.20	0.90	8.0	7.9	2.85	3	3.06	9.1	0.00	9.1	3	0.11	1	62.92	0.66	274.2	411.7	281		57	2.39	2.6	2.5	0.51	0.57	27.5	0.51
20.00	19.89	7.6	0.22	-0.46	7.5	2.90	4	107	1.21	0.90	7.0	7.0	3.49	3	3.16	8.1	0.00	8.1	3	0.12	1	70.04	0.67	274.3	410.1	280		44	2.10	2.3	2.0	0.45	0.50	26.9	0.45
20.10	20.02	7.5	0.23	-0.46	7.4	3.09	3	107	1.21	0.90	6.9	6.8	3.74	3	3.19	8.0	0.00	8.0	3	0.13	1	71.86	0.67	274.3	412.8	284		42	2.07	2.3	1.9	0.44	0.49	26.8	0.44
20.20	20.15	8.5	0.22	-0.46	8.4	2.57	4	107	1.22	0.90	8.0	7.9	3.02	3	3.08	9.1	0.00	9.1	3	0.11	1	64.08	0.66	274.2	416.7	290		57	2.40	2.6	2.3	0.52	0.56	27.5	0.52
20.40	20.30	10.2	0.19	-0.46	10.1	1.87	5	107	1.23	0.91	9.8	9.6	2.14	4	2.93	10.8	0.00	10.8	4	0.09	1	53.59	0.65	274.2	418.8	291		85	2.95	3.2	3.3	0.63	0.68	28.4	0.63
20.50	20.43	10.7	0.17	-0.45	10.6	1.58	5	106	1.24	0.91	10.3	10.1	1.80	4	2.87	11.4	0.00	11.4	4	0.08	1	49.87	0.65	274.2	415.1	284		95	3.13	3.4	3.9	0.67	0.72	28.7	0.67
20.60	20.55	10.6	0.21	-0.45	10.5	1.94	5	107	1.24	0.91	10.2	10.0	2.21	4	2.92	11.2	0.00	11.2	4	0.08	1	53.13	0.65	274.2	426.8	304		93	3.10	3.3	3.2	0.66	0.71	28.6	0.66
20.80	20.69	11.7	0.24	-0.44	11.7	2.06	5	109	1.25	0.92	11.3	11.1	2.31	4	2.89	12.4	0.00	12.4	4	0.07	1	51.28	0.64	274.2	443.2	332		116	3.47	3.7	3.1	0.74	0.80	29.1	0.74
20.90	20.82	13.6	0.24	-0.44	13.5	1.78	5	109	1.26	0.92	13.4	13.1	1.97	4	2.79	14.4	0.00	14.4	4	0.06	1	45.49	0.63	274.1	453.0	348		161	4.10	4.4	3.6	0.88	0.93	29.9	0.88
21.00	20.94	15.2	0.32	-0.43	15.1	2.09	5	112	1.26	0.92	15.0	14.7	2.30	4	2.79	16.0	0.00	16.0	4	0.06	1	45.18	0.62	274.1	479.1	398		194	4.61	4.9	3.1	0.99	1.05	30.4	0.99
21.10	21.08	17.8	0.44	-0.43	17.7	2.45	5	114	1.27	0.93	17.8	17.4	2.65	4	2.76	18.7	0.00	18.7	4	0.05	1	43.84	0.61	274.1	514.7	471		230	5.49	5.8	2.7	1.18	1.24	31.2	1.18
21.30	21.20	27.0	0.60	-0.42	26.9	2.23	6	118	1.28	0.93	27.5	26.8	2.35	4	2.58	28.0	3.22	86.8	5	0.03	1	34.63	0.58	274.0	573.7	603	485	358	0.93	0.7				33.3	0.01
21.40	21.34	27.1	0.61	-0.42	27.0	2.27	6	118	1.29	0.93	27.6	26.8	2.39	4	2.59	28.1	3.23	86.9	5	0.03	1	34.76	0.58	274.0	576.2	609	490	360	0.93	0.7				33.3	0.01
21.60	21.48	21.1	0.44	-0.42	21.0	2.08	6	115	1.30	0.94	21.1	20.6	2.23	4	2.66	21.9	0.00	21.9	4	0.04	1	38.29	0.60	274.0	527.9	498		276	6.58	6.9	3.2	1.41	1.47	32.0	1.41
21.70	21.61	15.7	0.36	-0.42	15.6	2.27	5	113	1.30	0.94	15.2	14.9	2.49	4	2.80	16.2	0.00	16.2	4	0.05	1	46.07	0.62	274.1	491.6	423		200	4.76	5.0	2.9	1.02	1.07	30.5	1.02
21.80	21.73	12.9	0.31	-0.42	12.8	2.37	5	111	1.31	0.94	12.2	12.1	2.66	4	2.90	13.3	0.00	13.3	4	0.07	1	51.70	0.63	274.2	468.7	379		139	3.84	4.0	2.7	0.82	0.86	29.5	0.82
21.90	21.86	12.9	0.33	-0.41	12.8	2.58	5	112	1.32	0.95	12.1	12.0	2.89	3	2.92	13.3	0.00	13.3	4	0.07	1	53.19	0.63	274.2	474.6	390		137	3.83	4.0	2.5	0.82	0.85	29.5	0.82
22.10	21.98	13.5	0.44	-0.41	13.5	3.28	4	114	1.32	0.95	12.8	12.6	3.66	3	2.96	13.9	0.00	13.9	3	0.06	1	55.92	0.63	274.1	501.2	444		153	4.04	4.2	1.9	0.87	0.90	29.7	0.87
22.20	22.12	15.8	0.57	-0.41	15.7	3.63	4	116	1.33	0.95	15.1	14.9	3.97	3	2.93	16.2	0.00	16.2	4	0.05	1	53.66	0.62	274.1	533.4	513		201	4.79	5.0	1.8	1.03	1.06	30.5	1.03
22.30	22.26	28.4	0.62	-0.40	28.3	2.93	5	120	1.34	0.96	28.1	27.5	2.31	4	2.57	28.8	3.12	87.5	5	0.03	1	33.79	0.57	274.0	582.1	634	500	377	0.96	0.7				33.4	0.01
22.50	22.39	37.7	0.84	-0.40	37.7	3.26	5	124	1.35	0.96	37.8	36.9	2.32	5	2.47	38.1	2.62	97.7	5	0.02	1	29.51	0.55	273.9	636.7	782	598	508	1.00	1.0				34.8	0.02
22.60	22.52	47.5	1.03	-0.41	47.5	3.56	5	127	1.36	0.97	47.8	46.6	2.24	5	2.39	47.7	2.25	107.8	5	0.02	1	25.92	0.54	273.9	679.6	912	681	645	1.32	1.4				35.9	0.03
22.70	22.66	29.8	1.19	-0.41	29.7	4.01	4	123	1.36	0.97	29.2	28.8	4.22	4	2.72	30.0	0.00	30.0	4	0.03	1	41.75	0.57	274.0	659.2	833		397	9.45	9.6	1.7	2.02	2.06	33.7	2.02
22.80	22.79	29.3	1.21	-0.41	29.2	4.12	4	123	1.37	0.97	28.6	28.2	4.33	4	2.74	29.4	0.00	29.4	4	0.03	1	42.56	0.57	274.0	659.6	834		390	9.28	9.4	1.6	1.99	2.01	33.6	1.99
23.00	22.92	29.0	1.10	-0.41	28.9	3.79	5	123	1.38	0.98	28.2	27.8	3.99	4	2.72	29.1	0.00	29.1	4	0.03	1	41.49	0.57	274.0	648.2	800		386	9.19	9.3	1.8	1.97	1.99	33.5	1.97
23.10	23.05	29.1	1.04	-0.42	29.0	3.58	5	122	1.39	0.98	28.1	27.7	3.77	4	2.70	29.0	0.00	29.0	4	0.03	1	40.68	0.57	274.0	642.5	784		386	9.20	9.2	1.9	1.97	1.98	33.5	1.97
23.20	23.18	29.0	0.98	-0.42	29.0	3.39	5	122	1.40	0.99	28.0	27.6	3.57	4	2.69	28.9	0.00	28.9	4	0.03	1	39.91	0.57	274.0	636.3	766		386	9.19	9.2	2.0	1.97	1.97	33.5	1.97
23.40	23.30	24.7	0.74	-0.43	24.6	2.98	5	119	1.40	0.99	23.5	23.2	3.17	4	2.71	24.6	0.00	24.6	4	0.04	1	41.23	0.59	274.0	593.4	652		325	7.75	7.7	2.2	1.66	1.66	32.6	1.66
23.50	23.44	18.6	0.51	-0.43	18.6	2.76	5	116	1.41	0.99	17.3	17.1	2.99	4	2.80	18.5	0.00	18.5	4	0.05	1	46.22	0.61	274.1	539.3	523		240	5.71	5.7	2.4	1.22	1.22	31.2	1.22
23.60	23.58	15.9	0.41	-0.43	15.8	2.60	5	114	1.42	1.00	14.4	14.3	2.87	4	2.86	15.7	0.00	15.7	4	0.06	1	49.28	0.62	274.1	510.2	460		201	4.79	4.8	2.5	1.03	1.02	30.3	1.03
23.80	23.70	15.5	0.39	-0.43	15.4	2.50	5	113	1.43	1.00	14.0	13.9	2.77	4	2.86	15.3	0.00	15.3	4	0.06	1	49.43	0.62	274.1	503.9	446		194	4.66	4.6	2.6	1.00	0.99	30.2	1.00
23.90	23.83	15.0	0.40	-0.43	15.0	2.63	5	113	1.43	1.00	13.5	13.4	2.92	3	2.88	14.8	0.00	14.8	4	0.06	1	50.99	0.62	274.1	503.9	447		181	4.51	4.5	2.4	0.97	0.96	30.0	0.97
24.00	23.97	13.4	0.34	-0.42	13.4	2.55	5	112	1.44	1.01	11.8	11.8	2.87	3	2.93	13.2	0.00	13.2	4	0.07	1	53.62	0.63	274.2	485.6	410		140	3.97	3.9	2.5	0.85	0.84	29.4	0.85
24.20	24.10	12.7	0.32	-0.42	12.6	2.52	5	111	1.45	1.01	11.0	11.0	2.86	3	2.95	12.4	0.00	12.4	3	0.08	1	55.21	0.64	274.2	476.8	393		122	3.71	3.7	2.5	0.79	0.78	29.0	0.79
24.30	24.23	12.8	0.33	-0.41	12.8	2.60	5	112	1.46	1.01	11.2	11.1	2.95	3	2.95	12.6	0.00	12.6	3	0.08	1	55.35	0.64	274.2	481.5	402		126	3.77	3.7	2.4	0.81	0.79	29.1	0.81
24.40	24.36	12.8	0.40	-0.41	12.8	3.14	4	113	1.46	1.02	11.1	11.1	3.56	3	3.00	12.5	0.00	12.5	3	0.08	1	58.62	0.64	274.2	496.5	433		125	3.77	3.7	2.0	0.81	0.79	29.1	0.81
24.60	24.48	12.7	0.45	-0.41	12.6	3.58	4	114	1.47	1.02	10.9	10.9	4.07	3	3.04	12.3	0.00	12.3	3	0.08	1	61.49	0.64	274.2	505.4	452		121	3.70	3.6	1.7	0.79	0.78	29.0	0.79
24.70	24.63	12.8	0.46	-0.41	12.7	3.63	4	114	1.48	1.02	11.0	11.0	4.13	3	3.04	12.4	0.00	12.4	3	0.08	1	61.54	0.64	274.2	508.7	459		123	3.75	3.7	1.7	0.80	0.78	29.0	0.80
24.80	24.76	13.2	0.44	-0.41	13.2	3.33	4	114	1.49	1.03	11.4	11.3	3.78	3	3.01	12.8	0.00	12.8	3	0.07	1	59.12	0.64	274.2	506.9	454		132	3.89	3.8	1.9	0.83	0.81	29.2	0.83
24.90	24.88	21.5	0.39	-0.41	21.4	2.95	5	118	1.49	1.03	19.3	19.2	1.96	4	2.66	20.7	0.00	20.7	4	0.04	1	38.18	0.60	274.1	529.2	512		279	6.63	6.4	3.6	1.42	1.37	31.7	1.42
25.10	25.01	12.5	0.36	-0.41	12.4	2.92	4	112	1.50	1.03	10.5	10.5	3.34	3	3.01	12.0	0.00	12.0	3	0.08	1	58.83	0.64	274.2	488.1	415		114	3.63	3.5	2.1	0.78	0.75	28.8	0.78
25.20	25.14	11.8	0.34	-0.41	11.8	2.85	4	111	1.51	1.04	9.9	9.9	3.29	3	3.02	11.4	0.00	11.4	3	0.09	1	60.10	0.65	274.2	479.3	398		101	3.42	3.3	2.2	0.73	0.71	28.5	0.73
25.30	25.27	11.7	0.35	-0.41	11.6	2.97	4	112	1.52	1.04	9.7	9.7	3.43	3	3.04	11.2	0.00	11.2	3	0.09	1	61.26	0.65	274.2	480.7	401		98	3.36	3.2	2.1	0.72	0.69	28.5	0.72
25.50	25.41	11.8	0.37	-0.41	11.8	3.15	4	112	1.52	1.04	9.8	9.8	3.64	3	3.05	11.3	0.00	11.3	3	0.09	1	62.04	0.65	274.2	487.5	414		100	3.41	3.3	2.0	0.73	0.70	28.5	0.73
25.60	25.54	12.4	0.42	-0.40	12.3	3.44	4	113	1.53	1.05	10.3	10.3	3.94	3	3.06	11.8	0.00	11.8	3	0.08	1	62.32	0.64	274.2	501.1	442		111	3.59	3.4	1.8	0.77	0.73	28.7	0.77
25.70	25.67	14.0	0.49	-0.40	13.9	3.54	4	115	1.54	1.05	11.8	11.8	4.00	3	3.01	13.3	0.00	13.3	3	0.07	1	59.35	0.63	274.2	522.5	487		145	4.12	3.9	1.8	0.88	0.84	29.4	0.88
25.90	25.80	14.9	0.56	-0.39	14.8	3.77	4	116	1.55	1.05	12.6	12.6	4.23	3	3.00	14.1	0.00	14.1	3	0.07	1	58.75	0.63	274.1	538.6	522		167	4.42	4.2	1.7	0.95	0.90	29.7	0.95
26.00	25.93	16.2	0.64	-0.40	16.1	3.96	4	117	1.55	1.06	13.8	13.8	4.40	3	2.98	15.3	0.00	15.3	3	0.06	1	57.45	0.62	274.1	556.7	564		200	4.84	4.6	1.6	1.04	0.98	30.1	1.04
26.10	26.06	17.4	0.68	-0.40	17.3	3.89	4	118	1.56	1.06	14.9	14.9	4.30	3	2.95	16.4	0.00	16.4	3	0.06	1	55.26	0.62	274.1	568.1	590		221	5.26	5.0	1.7	1.13	1.06	30.5	1.13
26.30	26.19	18.9	0.74	-0.39	18.9	3.92	4	119	1.57	1.06	16.3	16.3	4.29	3	2.92	17.8	0.00	17.8	4	0.05	1	53.35	0.61	274.1	583.4	627		242	5.76	5.4	1.7	1.23	1.16	30.9	1.23
26.40	26.33	20.1	0.79	-0.39	20.0	3.94	4	119	1.58	1.07	17.3	17.3	4.29	3	2.90	18.9	0.00	18.9	4	0.05	1	52.05	0.61	274.1	594.9	656		258	6.15	5.8	1.7	1.32	1.24	31.2	1.32
26.50	26.47	20.1	0.83	-0.39	20.0	4.12	4	120	1.59	1.07	17.2	17.2	4.49	3	2.91	18.8	0.00	18.8	4	0.05	1	52.92	0.61	274.1	599.9	669		258	6.15	5.7	1.6	1.32	1.23	31.2	1.32
26.70	26.60	18.5	0.85	-0.39	18.5	4.58	3	120	1.59	1.07	15.7	15.7	5.03	3	2.98	17.3	0.00	17.3	3	0.05	1	56.96	0.61	274.1	597.1	662		236	5.63	5.2	1.4	1.21	1.12	30.8	1.21
26.80	26.72	16.9	0.81	-0.39	16.8	4.83	3	119	1.60	1.08	14.1	14.1	5.35	3	3.03	15.7	0.00	15.7	3	0.06	1	60.54	0.62	274.1	586.3	636		213	5.07	4.7	1.3	1.09	1.01	30.3	1.09
26.90	26.86	15.1	0.77	-0.39	15.0	5.13	3	118	1.61	1.08	12.4	12.4	5.76	3	3.09	14.0	0.00	14.0	3	0.07	1	65.06	0.63	274.1	573.1	604		166	4.47	4.1	1.2	0.96	0.89	29.6	0.96
27.00	26.99	13.8	0.73	-0.39	13.7	5.25	3	118	1.62	1.09	11.2	11.2	5.98	3	3.14	12.8	0.00	12.8	3	0.08	1	68.34	0.64	274.2	560.9	575		136	4.04	3.7	1.2	0.87	0.80	29.1	0.87
27.20	27.11	13.3	0.65	-0.39	13.3	4.86	3	117	1.62	1.09	10.7	10.7	5.56	3	3.13	12.3	0.00	12.3	3	0.08	1	67.98	0.64	274.2	547.7	544		125	3.88	3.6	1.3	0.83	0.76	28.9	0.83
27.30	27.24	13.2	0.60	-0.39	13.2	4.56	3	116	1.63	1.09	10.6	10.6	5.23	3	3.12	12.2	0.00	12.2	3	0.08	1	67.04	0.64	274.2	540.8	528		122	3.84	3.5	1.4	0.82	0.76	28.9	0.82

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Z_b (ft)	Z_m (ft)	q_c (tsf)	f_s (tsf)	u_2 (tsf)	q_t (tsf)	R_f	SBT	γ (pcf)	σ_{v0} (tsf)	σ_{v0}' (tsf)	Q_t	Q_{tn}	F_R	SBT_n	I_c	q_{c1N}	K_c	$Q_{tn,cs}$	$(SBT)_{Ic}$	B_q	$(SBT)_{Bq}$	F_C (%)	c	R	V_s (ft/s)	G_0 (tsf)	E' (tsf)	M (tsf)	σ_p' (tsf)	OCR	S_t	S_u (tsf)	S_u/σ_{v0}'	φ (°)	c' (tsf)
27.50	27.39	13.6	0.52	-0.39	13.6	3.85	4	115	1.64	1.10	10.9	10.9	4.39	3	3.06	12.5	0.00	12.5	3	0.08	1	62.97	0.64	274.2	530.5	503		130	3.97	3.6	1.6	0.85	0.78	29.0	0.85
27.60	27.52	13.9	0.44	-0.39	13.8	3.15	4	114	1.65	1.10	11.1	11.1	3.59	3	3.01	12.8	0.00	12.8	3	0.08	1	58.84	0.64	274.2	516.9	472		136	4.07	3.7	2.0	0.87	0.80	29.1	0.87
27.70	27.64	17.2	0.35	-0.39	17.2	2.66	5	115	1.65	1.10	14.1	14.1	2.25	4	2.80	15.8	0.00	15.8	4	0.06	1	46.22	0.62	274.1	513.0	469		217	5.17	4.7	3.2	1.11	1.01	30.3	1.11
27.80	27.78	17.7	0.30	-0.39	17.7	2.50	5	115	1.66	1.11	14.5	14.6	1.90	4	2.75	16.2	0.00	16.2	4	0.06	1	43.37	0.62	274.1	505.0	454		224	5.34	4.9	3.7	1.14	1.04	30.4	1.14
28.00	27.91	18.3	0.29	-0.39	18.2	2.57	5	115	1.67	1.11	14.9	15.0	1.75	4	2.72	16.6	0.00	16.6	4	0.06	1	41.68	0.61	274.1	503.3	453		232	5.51	5.0	4.1	1.18	1.07	30.5	1.18
28.10	28.03	10.6	0.31	-0.39	10.5	2.95	4	111	1.68	1.11	7.9	7.9	3.53	3	3.12	9.6	0.00	9.6	3	0.11	1	66.99	0.66	274.2	472.7	384		70	2.94	2.6	2.0	0.63	0.57	27.5	0.63
28.20	28.16	10.6	0.36	-0.39	10.5	3.45	4	112	1.68	1.12	7.9	7.9	4.13	3	3.16	9.6	0.00	9.6	3	0.11	1	69.98	0.66	274.2	484.6	408		70	2.94	2.6	1.7	0.63	0.56	27.5	0.63
28.40	28.29	11.1	0.46	-0.39	11.1	4.16	3	114	1.69	1.12	8.4	8.4	4.94	3	3.19	10.1	0.00	10.1	3	0.10	1	71.87	0.66	274.2	508.0	456		79	3.13	2.8	1.4	0.67	0.60	27.8	0.67
28.50	28.43	11.5	0.42	-0.39	11.4	3.64	4	113	1.70	1.12	8.7	8.7	4.30	3	3.14	10.4	0.00	10.4	3	0.10	1	68.27	0.65	274.2	502.3	443		85	3.25	2.9	1.6	0.70	0.62	27.9	0.70
28.60	28.56	10.8	0.50	-0.39	10.7	4.66	3	114	1.71	1.13	8.0	8.0	5.59	3	3.24	9.7	0.00	9.7	3	0.11	1	75.78	0.66	274.2	513.0	467		72	2.99	2.7	1.3	0.64	0.57	27.5	0.64
28.70	28.68	14.3	0.64	-0.39	14.2	4.48	3	117	1.71	1.13	11.0	11.1	5.10	3	3.10	12.8	0.00	12.8	3	0.08	1	65.42	0.64	274.2	554.7	558		138	4.16	3.7	1.4	0.89	0.79	29.1	0.89
28.90	28.82	27.3	0.72	-0.39	27.2	3.46	5	121	1.72	1.13	22.5	22.8	2.81	4	2.70	24.5	0.00	24.5	4	0.04	1	40.24	0.59	274.0	614.3	711		357	8.50	7.6	2.5	1.82	1.63	32.5	1.82
29.00	28.95	32.7	0.77	-0.38	32.7	3.43	5	123	1.73	1.14	27.2	27.6	2.48	4	2.57	29.3	3.12	88.2	5	0.03	1	33.78	0.57	274.0	623.6	744	573	433	1.14	0.7				33.5	0.02
29.10	29.07	33.0	0.69	-0.38	32.9	3.38	5	123	1.74	1.14	27.3	27.8	2.23	4	2.54	29.5	2.94	87.9	5	0.03	1	32.31	0.57	274.0	614.0	721	556	437	1.14	0.7				33.5	0.02
29.30	29.21	18.4	0.67	-0.38	18.3	3.64	4	118	1.74	1.15	14.5	14.6	4.03	3	2.94	16.3	0.00	16.3	4	0.06	1	54.78	0.62	274.1	579.5	614		232	5.53	4.9	1.8	1.18	1.04	30.4	1.18
29.40	29.36	27.0	0.58	-0.38	27.0	3.12	5	120	1.75	1.15	21.9	22.3	2.29	4	2.65	24.0	0.00	24.0	4	0.04	1	37.89	0.59	274.0	593.7	660		353	8.41	7.4	3.1	1.80	1.59	32.4	1.80
29.50	29.48	27.7	0.54	-0.38	27.6	3.20	5	121	1.76	1.15	22.4	22.8	2.10	4	2.62	24.5	0.00	24.5	4	0.04	1	36.41	0.58	274.0	590.2	654		362	8.62	7.6	3.4	1.85	1.63	32.5	1.85
29.70	29.60	15.7	0.56	-0.38	15.7	3.55	4	116	1.77	1.16	12.0	12.1	4.02	3	3.01	13.9	0.00	13.9	3	0.07	1	58.96	0.63	274.1	552.0	549		168	4.63	4.0	1.8	0.99	0.86	29.5	0.99
29.80	29.74	15.4	0.54	-0.38	15.4	3.50	4	116	1.78	1.16	11.7	11.8	3.96	3	3.01	13.6	0.00	13.6	3	0.07	1	59.30	0.63	274.1	547.6	539		160	4.53	3.9	1.8	0.97	0.84	29.4	0.97
29.90	29.87	15.7	0.56	-0.37	15.6	3.58	4	116	1.78	1.16	11.9	12.0	4.05	3	3.01	13.7	0.00	13.7	3	0.07	1	59.36	0.63	274.1	552.7	551		165	4.61	4.0	1.8	0.99	0.86	29.5	0.99
30.10	30.00	14.5	0.51	-0.37	14.5	3.52	4	115	1.79	1.17	10.9	11.0	4.04	3	3.04	12.7	0.00	12.7	3	0.08	1	61.41	0.64	274.2	539.8	521		139	4.23	3.7	1.8	0.91	0.78	29.0	0.91
30.20	30.14	14.0	0.44	-0.37	13.9	3.17	4	114	1.80	1.17	10.3	10.4	3.66	3	3.03	12.2	0.00	12.2	3	0.08	1	60.86	0.64	274.2	524.4	487		126	4.03	3.5	1.9	0.86	0.74	28.8	0.86
30.30	30.27	13.4	0.49	-0.37	13.4	3.67	4	115	1.81	1.17	9.8	9.9	4.23	3	3.09	11.7	0.00	11.7	3	0.09	1	64.72	0.64	274.2	530.6	501		114	3.85	3.3	1.7	0.83	0.71	28.6	0.83
30.50	30.39	15.4	0.79	-0.37	15.3	5.13	3	118	1.81	1.18	11.5	11.5	5.83	3	3.12	13.4	0.00	13.4	3	0.07	1	67.20	0.63	274.1	585.8	632		156	4.50	3.8	1.2	0.96	0.82	29.3	0.96
30.60	30.52	23.5	0.90	-0.37	23.4	3.87	4	121	1.82	1.18	18.3	18.5	4.16	3	2.87	20.3	0.00	20.3	4	0.05	1	50.37	0.60	274.1	632.2	749		302	7.19	6.2	1.7	1.54	1.32	31.5	1.54
30.70	30.65	43.7	0.91	-0.37	43.7	3.32	5	126	1.83	1.19	35.3	36.4	2.16	5	2.44	38.2	2.46	97.1	5	0.02	1	28.03	0.55	273.9	668.7	874	659	586	1.19	0.9				34.8	0.02
30.90	30.78	20.4	0.91	-0.37	20.4	4.48	3	120	1.84	1.19	15.6	15.8	4.93	3	2.97	17.6	0.00	17.6	3	0.05	1	56.76	0.61	274.1	624.6	730		259	6.18	5.3	1.4	1.32	1.13	30.8	1.32
31.00	30.92	18.2	1.06	-0.36	18.1	5.80	3	121	1.85	1.19	13.7	13.8	6.48	3	3.09	15.7	0.00	15.7	3	0.06	1	65.11	0.62	274.1	632.0	752		224	5.43	4.6	1.1	1.16	0.98	30.1	1.16
31.10	31.05	22.4	1.15	-0.36	22.3	5.21	3	122	1.85	1.20	17.1	17.3	5.63	3	2.98	19.2	0.00	19.2	3	0.05	1	57.22	0.60	274.1	659.2	826		286	6.82	5.8	1.3	1.46	1.24	31.2	1.46
31.30	31.18	39.6	0.86	-0.36	39.6	2.21	6	122	1.86	1.20	31.4	32.4	2.27	5	2.49	34.3	2.69	93.1	5	0.03	1	30.15	0.56	273.9	654.9	811	632	528	1.20	0.8				34.2	0.02
31.40	31.31	63.0	0.91	-0.36	62.9	1.56	7	124	1.87	1.20	50.7	52.9	1.50	5	2.22	54.9	1.70	110.4	5	0.02	1	19.60	0.53	273.9	702.1	948	727	854	1.71	1.4				36.6	0.03
31.50	31.43	83.5	0.88	-0.36	83.4	1.18	8	124	1.88	1.21	67.5	71.0	1.08	6	2.04	73.2	1.34	117.5	6	0.01	1	13.93	0.50	273.8	723.0	1,011	771	1,541	2.31	1.9				38.0	0.05
31.60	31.57	83.4	0.86	-0.36	83.3	1.25	8	125	1.89	1.21	67.2	70.8	1.06	6	2.03	73.0	1.33	116.5	6	0.01	1	13.76	0.51	273.8	720.0	1,006	764	1,529	2.31	1.9				37.9	0.05
31.80	31.71	70.2	1.00	-0.36	70.2	1.91	7	126	1.89	1.22	56.1	58.8	1.47	5	2.18	61.0	1.60	115.6	5	0.02	1	18.26	0.52	273.8	724.0	1,029	773	1,546	1.92	1.6				37.1	0.04
31.90	31.83	53.0	0.94	-0.36	52.9	2.55	6	126	1.90	1.22	41.8	43.6	1.83	5	2.33	45.6	2.05	103.5	5	0.02	1	23.80	0.54	273.9	690.9	932	704	714	1.39	1.1				35.6	0.03
32.00	31.97	42.6	0.94	-0.36	42.5	3.58	5	126	1.91	1.23	33.1	34.4	2.33	5	2.47	36.3	2.63	95.5	5	0.03	1	29.54	0.56	273.9	673.4	888	669	568	1.23	0.9				34.5	0.02
32.20	32.10	24.9	1.04	-0.36	24.9	4.18	4	122	1.92	1.23	18.7	19.0	4.54	3	2.89	21.0	0.00	21.0	4	0.05	1	51.43	0.60	274.0	659.4	823		321	7.65	6.3	1.6	1.64	1.36	31.7	1.64
32.30	32.22	27.6	1.09	-0.35	27.6	3.94	4	122	1.93	1.23	20.8	21.3	4.25	3	2.84	23.2	0.00	23.2	4	0.04	1	48.14	0.59	274.0	673.4	863		359	8.55	7.1	1.7	1.83	1.52	32.2	1.83
32.40	32.36	31.5	0.94	-0.34	31.5	3.02	5	122	1.93	1.24	23.9	24.5	3.19	4	2.71	26.5	0.00	26.5	4	0.04	1	41.03	0.58	274.0	667.3	842		413	9.84	8.2	2.2	2.11	1.75	32.9	2.11
32.60	32.49	64.4	0.90	-0.34	64.4	1.50	7	124	1.94	1.24	50.3	53.0	1.45	5	2.21	55.1	1.67	110.0	5	0.02	1	19.18	0.52	273.8	704.5	954	732	874	1.74	1.4				36.6	0.03
32.70	32.62	106.7	1.03	-0.34	106.6	0.96	8	125	1.95	1.24	84.1	89.9	0.98	6	1.93	92.7	1.21	122.0	6	0.01	1	11.12	0.49	273.7	766.2	1,144	866	1,731	2.94	2.4				39.1	0.06
32.80	32.75	131.9	0.99	-0.34	131.8	0.75	9	126	1.96	1.25	104.0	112.1	0.76	6	1.79	115.4	1.09	116.2	6	0.01	1	7.92	0.47	273.7	781.3	1,192	900	1,800	3.58	2.9				40.1	0.07
33.00	32.89	143.7	1.00	-0.34	143.6	0.70	9	126	1.97	1.25	113.0	122.4	0.71	6	1.74	125.9	1.06	125.9	6	0.01	1	6.91	0.47	273.7	791.1	1,225	923	1,845	3.87	3.1				40.6	0.08
33.10	33.02	156.0	0.96	-0.33	155.9	0.62	9	126	1.98	1.26	122.4	133.2	0.63	6	1.68	137.0	1.02	137.0	6	0.01	1	5.78	0.46	273.7	794.0	1,233	930	1,859	4.15	3.3				41.0	0.08
33.20	33.14	153.6	0.89	-0.34	153.6	0.58	9	125	1.98	1.26	120.2	131.0	0.59	6	1.67	134.6	1.01	134.6	6	0.01	1	5.57	0.46	273.7	782.3	1,191	902	1,805	4.10	3.3				40.9	0.08
33.30	33.28	148.7	0.77	-0.34	148.6	0.52	9	124	1.99	1.27	115.8	126.6	0.53	6	1.65	129.9	1.00	129.9	6	0.01	1	5.30	0.46	273.7	761.9	1,119	856	1,712	3.99	3.2				40.7	0.08
33.50	33.40	152.8	0.75	-0.34	152.7	0.49	9	124	2.00	1.27	118.7	130.1	0.50	6	1.63	133.5	1.00	133.5	6	0.01	1	4.92	0.46	273.7	762.1	1,119	856	1,713	4.08	3.2				40.9	0.08
33.60	33.54	164.6	0.79	-0.34	164.5	0.48	9	124	2.01	1.27	127.6	140.0	0.48	6	1.60	144.1	1.00	144.1	6	0.01	1	4.34	0.46	273.7	774.2	1,159	884	1,768	4.35	3.4				41.2	0.09
33.80	33.68	168.4	0.81	-0.34	168.3	0.48	9	125	2.02	1.28	130.1	143.0	0.49	6	1.59	147.3	1.00	147.3	6	0.01	1	4.26	0.46	273.7	780.7	1,182	899	1,798	4.44	3.5				41.3	0.09
33.90	33.80	158.6	0.63	-0.36	158.5	0.40	9	123	2.02	1.28	122.1	134.4	0.40	6	1.57	138.2	1.00	138.2	6	0.01	1	3.89	0.46	273.7	746.1	1,061	821	1,642	4.22	3.3				41.0	0.08
34.00	33.93	137.1	0.78	-0.37	137.1	0.57	9	124	2.03	1.29	105.0	115.3	0.58	6	1.71	118.5	1.04	118.5	6	0.01	1	6.31	0.47	273.7	757.4	1,105	846	1,692	3.71	2.9				40.3	0.07
34.10	34.06	131.1	1.09	-0.37	131.0	0.83	9	126	2.04	1.29	100.0	109.2	0.84	6	1.82	112.9	1.12	118.1	6	0.01	1	8.65	0.47	273.7	795.6	1,243	933	1,867	3.56	2.8				40.0	0.07
34.30	34.19	156.5	1.15	-0.37	156.4	0.74	9	127	2.05	1.29	119.3	131.2	0.75	6	1.73	135.7	1.05	135.7	6	0.01	1	6.73	0.46	273.7	820.9	1,332	994	1,987	4.17	3.2				40.9	0.08
34.40	34.33	170.7	1.29	-0.37	170.6	0.76	9	128	2.06	1.30	129.8	143.2	0.76	6	1.71	148.5	1.04	148.5	6	0.01	1	6.31	0.46	273.7	846.1	1,427	1,056	2,111	4.49	3.5				41.3	0.09
34.50	34.46	190.2	1.39	-0.40	190.1	0.73	9	129	2.07	1.30	144.3	159.9	0.74	6	1.67	166.1	1.01	166.1	6	0.01	1	5.49	0.45	273.6	868.8	1,514	1,113	2,226	4.91	3.8				41.8	0.10
34.60	34.58	190.9	1.82	-0.44	190.8	0.95	9	131	2.07	1.31	144.4	159.5	0.96	6	1.74	166.6	1.06	166.6	6	0.01	1	6.94	0.45	273.6	913.9	1,702	1,231	2,463	4.92	3.8				41.8	0.10
34.80	34.72	221.7	2.03	-0.46	221.6	0.92	9	132	2.08	1.31	167.3	185.8	0.92	6	1.68	194.9	1.02	194.9	6	0.01	1	5.81	0.44	273.6	949.4	1,854	1,329	2,658	5.56	4.2				42.6	0.11
34.90	34.85	268.4	1.96	-0.62	268.3	0.73	9	133	2.09	1.32	202.2	225.6	0.73	6	1.56	238.5	1.00	238.5	6	0.01	1	3.65	0.42	273.6	964.0	1,914	1,370	2,741	6.46	4.9				43.5	0.13
35.00	34.99	277.5	1.94	-0.70	277.4	0.70	9	133	2.10	1.32	208.4	232.8	0.70	6	1.53	246.9	1.00	246.9	6	0.01	1	3.30	0.42	273.6	966.0	1,922	1,376	2,752	6.63	5.0				43.6	0.13
35.20	35.11	282.6	1.45	-0.71	282.5	0.51	10	130	2.11	1.33	211.6	236.8	0.52	6	1.44	251.5	1.00	251.5	6	0.01	1	1.98	0.42	273.6	917.7	1,707	1,242	2,483	6.72	5.1				43.7	0.13
35.30	35.24	286.3	1.08	-0.71	286.2	0.38	10	128	2.12	1.33	213.6	239.5	0.38	6	1.35	254.8	1.00	254.8	6	0.01	1	0.94	0.42	273.6	874.3	1,523	1,127	2,254	6.79	5.1				43.8	0.14
35.40	35.37	287.6	0.96	-0.70	287.5	0.33	10	127	2.13	1.33	213.9	240.2	0.34	7	1.32	255.7	1.00	255.7	6	0.01	1	0.60	0.42	273.6	858.8	1,460	1,088	2,175	6.82	5.1				43.8	0.14
35.60	35.51	273.2	0.93	-0.70	273.0	0.34	10	127	2.13	1.34	202.4	227.6	0.34	6	1.34	241.8	1.00	241.8	6	0.01	1	0.84	0.42	273.6	849.0	1,422	1,063	2,126	6.56	4.9				43.5	0.13
35.70	35.65	277.5	1.08	-0.70	277.4	0.39	10	128	2.14	1.34	204.9	230.9	0.39	6	1.37	245.6	1.00	245.6	6	0.01	1	1.17	0.42	273.6	871.7	1,513	1,120	2,241	6.64	4.9				43.6	0.13
35.80	35.78	290.8	1.37	-0.70	290.7	0.47	10	130	2.15	1.35	214.1	241.6	0.48	6	1.41	257.8	1.00	257.8	6	0.01	1	1.61	0.42	273.6	913.7	1,688	1,231	2,462	6.89	5.1				43.8	0.14
36.00	35.91	303.6	1.42	-0.70	303.4	0.47	10	130	2.16	1.35	222.9	251.9	0.47	6	1.39	268.9	1.00	268.9	6	0.00	1	1.42	0.42	273.5	924.4	1,732	1,260	2,520	7.12	5.3				44.0	0.14
36.10	36.05	312.8	1.50	-0.70	312.7	0.48	10	131	2.17	1.36	228.9	259.2	0.48	6	1.39	276.8	1.00	276.8	6	0.00	1	1.39	0.41	273.5	936.9	1,786	1,294	2,588	7.28	5.4				44.1	0.15
36.20	36.18	297.4	1.63	-0.70	297.3	0.55	10	131	2.18	1.36	216.8	245.9	0.55	6	1.44	263.0	1.00	263.0	6	0.01	1	2.08	0.42	273.5	946.0	1,828	1,320	2,639	7.02	5.2				43.9	0.14
36.40	36.30	256.3	1.60	-0.71	256.2	0.62	9	131	2.19	1.37	186.1	211.3	0.63	6	1.53	224.5	1.00	224.5	6	0.01	1	3.26	0.43	273.6	926.4	1,746	1,265	2,531	6.27	4.6				43.2	0.13

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Z_b (ft)	Z_m (ft)	q_c (tsf)	f_s (tsf)	u_2 (tsf)	q_t (tsf)	R_f	SBT	γ (pcf)	σ_{v0} (tsf)	σ_{v0}' (tsf)	Q_t	Q_{tn}	F_R	SBT_n	I_c	q_{c1N}	K_c	$Q_{tn,cs}$	$(SBT)_{Ic}$	B_q	$(SBT)_{Bq}$	F_C (%)	c	R	V_s (ft/s)	G_0 (tsf)	E' (tsf)	M (tsf)	σ_p' (tsf)	OCR	S_t	S_u (tsf)	S_u/σ_{v0}'	φ (°)	c' (tsf)
36.50	36.44	225.6	1.74	-0.72	225.5	0.77	9	131	2.19	1.37	163.0	185.5	0.78	6	1.63	195.5	1.00	195.5	6	0.01	1	4.92	0.44	273.6	927.4	1,754	1,268	2,537	5.67	4.1				42.6	0.11
36.60	36.56	224.7	2.07	-0.72	224.6	0.92	9	133	2.20	1.37	161.9	183.7	0.93	6	1.69	194.5	1.03	194.5	6	0.01	1	5.91	0.44	273.6	958.8	1,893	1,356	2,711	5.65	4.1				42.5	0.11
36.80	36.68	233.2	2.03	-0.71	233.1	0.87	9	132	2.21	1.38	167.5	190.9	0.88	6	1.66	202.1	1.01	202.1	6	0.01	1	5.41	0.44	273.6	959.9	1,897	1,359	2,717	5.82	4.2				42.7	0.12
36.90	36.83	262.4	2.08	-0.71	262.3	0.79	9	133	2.22	1.38	187.9	214.9	0.80	6	1.60	229.3	1.00	229.3	6	0.01	1	4.29	0.43	273.6	977.5	1,974	1,409	2,818	6.39	4.6				43.3	0.13
37.00	36.96	263.0	1.95	-0.71	262.9	0.74	9	132	2.23	1.39	187.7	215.0	0.75	6	1.57	229.6	1.00	229.6	6	0.01	1	3.96	0.43	273.6	965.6	1,919	1,375	2,750	6.40	4.6				43.3	0.13
37.20	37.08	254.7	1.81	-0.70	254.5	0.71	9	132	2.24	1.39	181.2	207.9	0.72	6	1.57	221.5	1.00	221.5	6	0.01	1	3.95	0.43	273.6	949.7	1,848	1,330	2,660	6.25	4.5				43.1	0.12
37.30	37.22	239.1	1.81	-0.70	238.9	0.76	9	132	2.25	1.40	169.4	194.7	0.77	6	1.61	206.6	1.00	206.6	6	0.01	1	4.58	0.43	273.6	942.9	1,819	1,311	2,622	5.95	4.3				42.8	0.12
37.40	37.35	230.7	2.40	-0.70	230.6	1.04	9	134	2.26	1.40	162.9	186.2	1.05	6	1.72	198.6	1.05	198.6	6	0.01	1	6.52	0.44	273.6	991.6	2,043	1,450	2,900	5.78	4.1				42.6	0.12
37.50	37.48	221.0	3.72	-0.70	220.8	1.69	8	137	2.26	1.41	155.4	175.4	1.70	6	1.89	189.3	1.17	216.7	6	0.01	1	10.16	0.44	273.6	1,079.9	2,481	1,719	3,439	5.56	4.0				42.3	0.11
37.70	37.60	199.2	4.56	-0.71	199.0	2.29	7	138	2.27	1.41	139.4	155.8	2.32	5	2.02	169.0	1.32	228.4	6	0.01	1	13.60	0.45	273.6	1,114.8	2,668	1,832	3,665	5.09	3.6				41.7	0.10
37.80	37.74	220.5	5.19	-0.70	220.4	2.35	7	139	2.28	1.42	154.0	172.5	2.38	5	2.01	188.4	1.30	247.6	6	0.01	1	13.11	0.44	273.6	1,160.7	2,918	1,987	3,973	5.54	3.9				42.2	0.11
37.90	37.88	258.9	5.77	-0.73	258.8	2.23	8	141	2.29	1.42	180.4	203.5	2.25	6	1.95	224.0	1.23	272.6	6	0.01	1	11.51	0.43	273.6	1,211.1	3,205	2,163	4,326	6.30	4.4				43.0	0.13
38.10	38.03	290.6	5.57	-0.79	290.5	1.92	8	141	2.30	1.43	201.8	229.8	1.93	6	1.86	253.7	1.15	275.1	6	0.01	1	9.52	0.42	273.6	1,218.5	3,245	2,189	4,379	6.91	4.8				43.6	0.14
38.20	38.16	309.9	5.63	-0.83	309.8	1.82	8	141	2.31	1.43	214.6	245.5	1.83	6	1.83	270.4	1.12	279.8	6	0.01	1	8.74	0.42	273.5	1,231.4	3,319	2,236	4,472	7.26	5.1				43.9	0.15
38.30	38.26	321.0	5.68	-0.84	320.9	1.77	8	141	2.32	1.44	221.7	254.4	1.78	6	1.81	279.9	1.11	284.4	6	0.01	1	8.34	0.41	273.5	1,239.1	3,364	2,264	4,528	7.46	5.2				44.1	0.15
38.50	38.39	323.2	5.60	-0.84	323.0	1.73	8	141	2.33	1.44	222.4	255.8	1.75	6	1.80	281.5	1.10	284.3	6	0.01	1	8.16	0.41	273.5	1,236.6	3,349	2,255	4,509	7.51	5.2				44.1	0.15
38.60	38.52	318.3	5.09	-0.85	318.2	1.60	8	140	2.34	1.45	218.3	251.9	1.61	6	1.78	277.0	1.09	277.3	6	0.01	1	7.66	0.41	273.5	1,208.9	3,183	2,155	4,310	7.43	5.1				44.0	0.15
38.70	38.66	342.3	4.26	-0.85	342.2	1.25	9	139	2.35	1.45	234.0	273.3	1.25	6	1.67	297.6	1.01	297.6	6	0.01	1	5.61	0.41	273.5	1,172.8	2,971	2,028	4,056	7.87	5.4				44.4	0.16
38.80	38.79	373.3	3.83	-0.85	373.2	1.03	9	138	2.36	1.46	254.4	298.6	1.03	6	1.58	324.2	1.00	324.2	6	0.00	1	4.10	0.40	273.5	1,158.4	2,887	1,979	3,957	8.39	5.8				44.8	0.17
39.00	38.92	407.8	3.25	-0.85	407.7	0.80	10	137	2.36	1.46	277.2	325.8	0.80	6	1.47	353.9	1.00	353.9	6	0.00	1	2.49	0.40	273.5	1,130.3	2,728	1,884	3,768	8.95	6.1				45.2	0.18
39.10	39.06	419.4	2.64	-0.85	419.3	0.63	10	136	2.37	1.47	284.1	334.6	0.63	6	1.39	363.6	1.00	363.6	6	0.00	1	1.40	0.39	273.5	1,086.4	2,492	1,740	3,480	9.14	6.2				45.4	0.18
39.30	39.19	373.1	2.11	-0.84	373.0	0.57	10	134	2.38	1.47	251.7	296.9	0.57	6	1.39	323.2	1.00	323.2	6	0.00	1	1.44	0.40	273.5	1,026.3	2,192	1,553	3,106	8.41	5.7				44.8	0.17
39.40	39.32	300.4	1.41	-0.84	300.2	0.47	10	130	2.39	1.48	201.7	238.3	0.47	6	1.41	260.0	1.00	260.0	6	0.01	1	1.64	0.42	273.6	929.9	1,751	1,275	2,550	7.15	4.8				43.7	0.14
39.50	39.45	217.5	0.89	-0.84	217.3	0.42	9	126	2.40	1.48	145.1	171.7	0.42	6	1.49	182.5	1.00	182.5	6	0.01	1	2.69	0.44	273.6	830.6	1,353	1,017	2,035	5.55	3.7				42.2	0.11
39.60	39.58	128.8	0.90	-0.84	128.6	0.72	9	125	2.41	1.49	85.0	98.9	0.72	6	1.81	103.0	1.11	106.1	6	0.01	1	8.39	0.48	273.7	781.0	1,186	899	1,799	3.49	2.4				39.5	0.07
39.80	39.71	68.9	0.98	-0.83	68.7	1.45	7	124	2.42	1.49	44.5	49.8	1.48	5	2.22	52.5	1.71	107.5	5	0.03	1	19.71	0.53	273.9	733.4	1,037	793	929	1.78	1.2				36.3	0.04
39.90	39.85	42.4	0.94	-0.84	42.3	2.24	6	122	2.42	1.49	26.7	29.0	2.36	4	2.51	31.3	2.82	89.8	5	0.04	1	31.25	0.56	274.0	683.7	890	689	558	1.49	0.6				33.7	0.02
40.10	39.98	30.4	0.91	-0.84	30.3	2.98	5	121	2.43	1.50	18.6	19.6	3.26	4	2.80	22.0	0.00	22.0	4	0.06	1	46.06	0.59	274.0	685.9	886		390	9.28	6.5	2.2	1.99	1.40	31.8	1.99
40.20	40.11	26.3	0.66	-0.84	26.2	2.52	6	119	2.44	1.50	15.8	16.6	2.80	4	2.82	18.9	0.00	18.9	4	0.07	1	46.98	0.60	274.1	639.9	754		332	7.91	5.5	2.5	1.70	1.19	31.0	1.70
40.30	40.24	25.4	0.55	-0.84	25.3	2.17	6	117	2.45	1.50	15.2	16.0	2.41	4	2.79	18.3	0.00	18.3	4	0.08	1	45.65	0.61	274.1	618.7	696		320	7.62	5.3	2.9	1.63	1.15	30.9	1.63
40.40	40.37	28.3	0.61	-0.84	28.1	2.14	6	118	2.46	1.51	17.0	18.1	2.36	4	2.75	20.2	0.00	20.2	4	0.07	1	43.04	0.60	274.1	636.8	744		359	8.56	6.0	3.0	1.83	1.29	31.4	1.83
40.60	40.50	30.9	0.62	-0.85	30.8	2.02	6	118	2.46	1.51	18.7	20.0	2.20	4	2.70	22.2	0.00	22.2	4	0.06	1	40.26	0.59	274.0	647.6	772		397	9.44	6.7	3.2	2.02	1.43	31.9	2.02
40.70	40.64	34.1	0.61	-0.86	34.0	1.78	6	118	2.47	1.52	20.8	22.4	1.92	4	2.63	24.5	0.00	24.5	4	0.06	1	36.64	0.58	274.0	653.0	785		441	10.49	7.5	3.7	2.25	1.60	32.4	2.25
40.80	40.76	30.7	0.62	-0.86	30.5	2.03	6	118	2.48	1.52	18.5	19.7	2.21	4	2.70	21.9	0.00	21.9	4	0.06	1	40.59	0.59	274.0	647.2	771		393	9.36	6.6	3.2	2.01	1.41	31.8	2.01
40.90	40.88	25.3	0.58	-0.86	25.1	2.30	6	117	2.49	1.52	14.9	15.7	2.57	4	2.82	18.0	0.00	18.0	4	0.08	1	46.95	0.61	274.1	625.1	713		317	7.55	5.2	2.8	1.62	1.12	30.8	1.62
41.10	41.03	22.2	0.48	-0.86	22.1	2.18	6	116	2.49	1.53	12.8	13.5	2.47	4	2.86	15.8	0.00	15.8	4	0.09	1	49.53	0.62	274.1	597.4	642		264	6.53	4.5	2.9	1.40	0.96	30.0	1.40
41.20	41.16	20.4	0.47	-0.87	20.2	2.33	5	115	2.50	1.53	11.6	12.1	2.67	3	2.92	14.4	0.00	14.4	4	0.10	1	53.02	0.62	274.1	588.5	621		214	5.90	4.0	2.7	1.26	0.86	29.5	1.26
41.30	41.28	20.4	0.47	-0.87	20.3	2.31	5	115	2.51	1.53	11.6	12.1	2.66	3	2.91	14.4	0.00	14.4	4	0.10	1	52.92	0.62	274.1	588.6	621		215	5.92	4.0	2.7	1.27	0.86	29.5	1.27
41.50	41.41	22.2	0.50	-0.87	22.0	2.25	6	116	2.52	1.54	12.7	13.3	2.56	4	2.87	15.7	0.00	15.7	4	0.09	1	50.30	0.62	274.1	601.0	651		260	6.51	4.4	2.8	1.39	0.95	30.0	1.39
41.60	41.55	22.7	0.56	-0.87	22.6	2.44	5	117	2.52	1.54	13.0	13.6	2.77	4	2.88	16.0	0.00	16.0	4	0.09	1	50.96	0.62	274.1	613.2	682		274	6.68	4.5	2.6	1.43	0.97	30.1	1.43
41.70	41.67	22.4	0.58	-0.87	22.2	2.59	5	117	2.53	1.54	12.8	13.4	2.94	3	2.91	15.7	0.00	15.7	4	0.09	1	52.32	0.62	274.1	616.4	691		263	6.57	4.5	2.4	1.41	0.95	30.0	1.41
41.90	41.81	21.7	0.55	-0.87	21.5	2.53	5	117	2.54	1.55	12.3	12.8	2.88	3	2.91	15.2	0.00	15.2	4	0.10	1	52.86	0.62	274.1	608.8	671		244	6.34	4.3	2.5	1.36	0.92	29.8	1.36
42.00	41.94	21.3	0.54	-0.87	21.2	2.52	5	116	2.55	1.55	12.0	12.5	2.88	3	2.92	14.9	0.00	14.9	4	0.10	1	53.38	0.62	274.1	605.6	663		233	6.20	4.2	2.5	1.33	0.90	29.7	1.33
42.10	42.06	21.5	0.55	-0.88	21.4	2.55	5	117	2.55	1.55	12.1	12.6	2.91	3	2.92	15.0	0.00	15.0	4	0.10	1	53.36	0.62	274.1	608.5	671		238	6.27	4.2	2.4	1.34	0.90	29.7	1.34
42.30	42.20	22.7	0.63	-0.88	22.6	2.76	5	118	2.56	1.56	12.8	13.4	3.14	3	2.92	15.9	0.00	15.9	4	0.09	1	53.22	0.62	274.1	626.9	719		269	6.67	4.5	2.3	1.43	0.96	30.0	1.43
42.40	42.33	27.0	0.79	-0.88	26.8	2.92	5	120	2.57	1.56	15.5	16.3	3.24	4	2.86	18.8	0.00	18.8	4	0.08	1	49.65	0.60	274.1	665.2	824		339	8.08	5.4	2.2	1.73	1.17	30.9	1.73
42.50	42.46	31.1	0.80	-0.89	31.0	2.57	6	120	2.58	1.57	18.1	19.3	2.82	4	2.77	21.7	0.00	21.7	4	0.07	1	44.34	0.59	274.0	679.9	865		398	9.47	6.4	2.5	2.03	1.38	31.7	2.03
42.70	42.59	30.2	0.84	-0.89	30.1	2.79	5	121	2.59	1.57	17.5	18.6	3.07	4	2.81	21.0	0.00	21.0	4	0.07	1	46.31	0.59	274.0	683.4	876		385	9.16	6.2	2.3	1.96	1.33	31.6	1.96
42.80	42.73	33.2	0.87	-0.89	33.0	2.62	6	121	2.59	1.57	19.3	20.7	2.85	4	2.75	23.1	0.00	23.1	4	0.06	1	43.26	0.59	274.0	695.2	910		426	10.14	6.9	2.5	2.17	1.48	32.1	2.17
42.90	42.86	33.1	0.87	-0.89	33.0	2.62	6	121	2.60	1.58	19.3	20.6	2.86	4	2.75	23.0	0.00	23.0	4	0.06	1	43.41	0.59	274.0	695.7	911		425	10.12	6.9	2.5	2.17	1.47	32.0	2.17
43.10	42.99	32.0	0.95	-0.89	31.8	2.97	5	122	2.61	1.58	18.5	19.6	3.25	4	2.80	22.1	0.00	22.1	4	0.07	1	46.16	0.59	274.0	703.4	936		409	9.73	6.5	2.2	2.09	1.40	31.8	2.09
43.20	43.12	37.8	1.14	-0.89	37.6	3.02	5	124	2.62	1.58	22.1	23.6	3.25	4	2.74	26.4	0.00	26.4	4	0.05	1	42.75	0.58	274.0	741.0	1,054		490	11.66	7.9	2.2	2.50	1.69	32.7	2.50
43.30	43.25	45.4	1.26	-0.89	45.2	2.78	6	125	2.63	1.59	26.8	29.0	2.96	4	2.65	32.1	0.00	32.1	4	0.05	1	37.92	0.56	274.0	771.9	1,155		597	14.20	9.7	2.4	3.04	2.07	33.7	3.04
43.40	43.38	46.7	1.32	-0.89	46.5	2.84	6	125	2.63	1.59	27.5	29.9	3.02	4	2.65	33.0	0.00	33.0	4	0.04	1	37.74	0.56	273.9	781.5	1,188		614	14.62	10.0	2.4	3.13	2.13	33.8	3.13
43.60	43.51	47.1	1.38	-0.89	47.0	2.92	6	125	2.64	1.60	27.8	30.1	3.11	4	2.65	33.3	0.00	33.3	4	0.04	1	38.00	0.56	273.9	788.3	1,212		621	14.78	10.0	2.3	3.17	2.15	33.9	3.17
43.70	43.64	45.3	1.36	-0.90	45.2	2.99	6	125	2.65	1.60	26.6	28.7	3.19	4	2.68	31.8	0.00	31.8	4	0.05	1	39.15	0.56	274.0	783.0	1,194		596	14.18	9.6	2.2	3.04	2.05	33.6	3.04
43.90	43.78	42.2	1.30	-0.90	42.1	3.08	6	125	2.66	1.61	24.5	26.4	3.30	4	2.71	29.4	0.00	29.4	4	0.05	1	41.05	0.57	274.0	771.1	1,153		552	13.14	8.8	2.1	2.82	1.89	33.2	2.82
44.00	43.91	40.6	1.28	-0.90	40.4	3.16	5	125	2.67	1.61	23.5	25.2	3.40	4	2.73	28.2	0.00	28.2	4	0.05	1	42.31	0.57	274.0	765.8	1,136		528	12.58	8.4	2.1	2.70	1.80	33.0	2.70
44.10	44.03	38.8	1.26	-0.90	38.6	3.25	5	124	2.68	1.61	22.3	23.9	3.51	4	2.76	26.8	0.00	26.8	4	0.05	1	43.74	0.58	274.0	759.6	1,115		503	11.98	8.0	2.0	2.57	1.71	32.8	2.57
44.20	44.17	34.6	1.21	-0.90	34.4	3.49	5	124	2.68	1.62	19.6	20.9	3.80	4	2.82	23.6	0.00	23.6	4	0.06	1	47.45	0.58	274.0	743.8	1,064		445	10.58	7.0	1.9	2.27	1.49	32.1	2.27
44.40	44.32	31.9	1.20	-0.91	31.8	3.76	5	123	2.69	1.62	17.9	18.9	4.12	3	2.88	21.6	0.00	21.6	4	0.07	1	50.63	0.59	274.0	735.9	1,039		407	9.69	6.3	1.7	2.08	1.35	31.6	2.08
44.50	44.45	29.1	1.12	-0.91	29.0	3.85	5	123	2.70	1.63	16.2	17.0	4.27	3	2.92	19.7	0.00	19.7	4	0.08	1	53.38	0.60	274.1	719.6	988		368	8.76	5.7	1.7	1.88	1.21	31.1	1.88
44.60	44.57	26.5	1.01	-0.91	26.4	3.80	5	122	2.71	1.63	14.5	15.2	4.27	3	2.96	17.9	0.00	17.9	3	0.08	1	55.71	0.61	274.1	698.4	922		331	7.88	5.1	1.7	1.69	1.08	30.6	1.69
44.80	44.70	24.5	0.93	-0.91	24.3	3.81	4	121	2.72	1.63	13.2	13.8	4.31	3	2.99	16.5	0.00	16.5	3	0.09	1	58.01	0.61	274.1	682.3	874		297	7.20	4.6	1.6	1.54	0.98	30.1	1.54
44.90	44.83	22.6	0.86	-0.91	22.5	3.78	4	120	2.72	1.64	12.1	12.5	4.33	3	3.03	15.2	0.00	15.2	3	0.10	1	60.22	0.62	274.1	666.0	827		247	6.58	4.2	1.6	1.41	0.89	29.7	1.41
45.00	44.96	21.0	0.75	-0.91	20.9	3.57	4	119	2.73	1.64	11.1	11.4	4.14	3	3.04	14.1	0.00	14.1	3	0.11	1	61.48	0.63	274.1	645.7	770		207	6.04	3.8	1.7	1.30	0.82	29.2	1.30
45.20	45.10	21.0	0.70	-0.91	20.9	3.32	5	118	2.74	1.65	11.0	11.4	3.84	3	3.03	14.1	0.00	14.1	3	0.11	1	60.20	0.63	274.1	638.0	748		207	6.04	3.8	1.8	1.29	0.82	29.2	1.29
45.30	45.25	21.7	0.68	-0.91	21.6	3.12	5	118	2.75	1.65	11.4	11.9	3.60	3	3.00	14.5	0.00	14.5	3	0.11	1	58.19	0.62	274.1	638.4	749		224	6.28	4.0	2.0	1.35	0.85	29.4	1.35
45.40	45.37	22.7	0.67	-0.91	22.6	2.97	5	118	2.76	1.65	12.0	12.5	3.41	3	2.96	15.1	0.00	15.1	3	0.10	1	56.14	0.62	274.1	641.8	757		248	6.60	4.2	2.1	1.41	0.90	29.7	1.41

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Z_b (ft)	Z_m (ft)	q_c (tsf)	f_s (tsf)	u_2 (tsf)	q_t (tsf)	R_f	SBT	γ (pcf)	σ_{v0} (tsf)	σ_{v0}' (tsf)	Q_t	Q_{tn}	F_R	SBT_n	I_c	q_{c1N}	K_c	$Q_{tn,cs}$	$(SBT)_{Ic}$	B_q	$(SBT)_{Bq}$	F_C (%)	c	R	V_s (ft/s)	G_0 (tsf)	E' (tsf)	M (tsf)	σ_p' (tsf)	OCR	S_t	S_u (tsf)	S_u/σ_{v0}'	φ (°)	c' (tsf)
45.50	45.48	24.0	0.68	-0.91	23.8	2.82	5	118	2.76	1.66	12.7	13.4	3.21	3	2.93	16.0	0.00	16.0	4	0.10	1	53.77	0.62	274.1	646.8	770		282	7.02	4.5	2.2	1.50	0.96	30.0	1.50
45.70	45.61	24.2	0.67	-0.91	24.0	2.78	5	118	2.77	1.66	12.8	13.5	3.16	3	2.92	16.1	0.00	16.1	4	0.09	1	53.41	0.61	274.1	647.3	771		287	7.09	4.5	2.2	1.52	0.96	30.0	1.52
45.80	45.75	24.1	0.68	-0.91	24.0	2.80	5	118	2.78	1.66	12.7	13.4	3.19	3	2.93	16.0	0.00	16.0	4	0.10	1	53.66	0.61	274.1	648.0	773		284	7.07	4.5	2.2	1.51	0.96	30.0	1.51
45.90	45.88	24.4	0.68	-0.91	24.2	2.81	5	119	2.79	1.67	12.9	13.5	3.19	3	2.92	16.1	0.00	16.1	4	0.09	1	53.47	0.61	274.1	650.4	779		290	7.14	4.5	2.2	1.53	0.97	30.1	1.53
46.10	46.00	26.4	0.66	-0.91	26.2	2.51	6	119	2.79	1.67	14.0	14.9	2.83	4	2.86	17.4	0.00	17.4	4	0.09	1	49.68	0.61	274.1	654.1	788		328	7.81	5.0	2.5	1.67	1.06	30.5	1.67
46.20	46.14	27.1	0.74	-0.91	27.0	2.74	5	119	2.80	1.67	14.4	15.3	3.07	4	2.87	17.9	0.00	17.9	4	0.08	1	50.31	0.61	274.1	669.1	831		339	8.06	5.1	2.3	1.73	1.10	30.6	1.73
46.30	46.27	27.9	1.13	-0.91	27.8	4.05	4	123	2.81	1.68	14.9	15.6	4.53	3	2.97	18.4	0.00	18.4	3	0.08	1	56.25	0.60	274.1	721.3	992		349	8.32	5.2	1.6	1.78	1.11	30.7	1.78
46.50	46.41	31.1	1.59	-0.91	31.0	5.10	3	126	2.82	1.68	16.7	17.5	5.65	3	2.99	20.5	0.00	20.5	3	0.07	1	57.74	0.59	274.0	777.1	1,178		394	9.39	5.8	1.3	2.01	1.25	31.3	2.01
46.60	46.54	46.7	1.74	-0.90	46.5	3.91	5	128	2.83	1.69	25.9	28.0	3.99	4	2.75	31.6	0.00	31.6	4	0.05	1	42.98	0.56	274.0	830.6	1,368		612	14.57	9.3	1.8	3.12	2.00	33.5	3.12
46.70	46.66	61.3	1.55	-0.90	61.1	2.53	6	127	2.83	1.69	34.5	38.9	2.66	5	2.45	42.4	2.49	102.6	5	0.04	1	28.31	0.54	273.9	792.7	1,241	927	816	1.69	0.9				35.1	0.03
46.90	46.80	57.6	1.50	-0.90	57.4	2.61	6	127	2.84	1.69	32.2	36.2	2.75	5	2.48	39.5	2.64	99.5	5	0.04	1	29.63	0.55	273.9	781.7	1,203	901	764	1.69	0.8				34.7	0.03
47.00	46.93	53.9	1.50	-0.90	53.7	2.79	6	126	2.85	1.70	30.0	33.1	2.95	4	2.61	36.7	0.00	36.7	4	0.04	1	36.03	0.55	273.9	823.8	1,334		713	16.97	11.0	2.4	3.64	2.36	34.3	3.64
47.10	47.07	58.3	1.55	-0.90	58.2	2.66	6	127	2.86	1.70	32.5	36.5	2.81	4	2.48	39.9	2.65	100.1	5	0.04	1	29.75	0.55	273.9	788.6	1,227	917	774	1.70	0.8				34.8	0.03
47.30	47.20	59.6	1.68	-0.90	59.5	2.81	6	128	2.87	1.71	33.2	37.3	2.96	4	2.49	40.8	2.69	101.5	5	0.04	1	30.14	0.54	273.9	802.3	1,276	949	793	1.71	0.8				34.9	0.03
47.40	47.32	63.8	1.77	-0.90	63.6	2.78	6	128	2.88	1.71	35.5	40.1	2.92	5	2.46	43.8	2.57	104.8	5	0.03	1	29.03	0.54	273.9	817.8	1,332	986	850	1.71	0.9				35.2	0.03
47.50	47.45	62.0	1.76	-0.90	61.8	2.84	6	128	2.88	1.72	34.3	38.7	2.98	4	2.48	42.4	2.65	103.3	5	0.04	1	29.72	0.54	273.9	813.7	1,317	976	825	1.72	0.8				35.1	0.03
47.70	47.59	55.1	1.63	-0.89	55.0	2.96	6	127	2.89	1.72	30.3	33.4	3.13	4	2.63	37.2	0.00	37.2	4	0.04	1	36.69	0.55	273.9	840.3	1,396		729	17.36	11.1	2.3	3.72	2.39	34.4	3.72
47.80	47.72	51.1	1.55	-0.90	50.9	3.03	6	127	2.90	1.72	27.8	30.6	3.22	4	2.66	34.2	0.00	34.2	4	0.04	1	38.50	0.56	273.9	825.4	1,340		672	16.01	10.2	2.2	3.43	2.19	33.9	3.43
47.90	47.84	47.6	1.48	-0.90	47.5	3.12	6	126	2.91	1.73	25.8	28.2	3.33	4	2.70	31.6	0.00	31.6	4	0.05	1	40.30	0.56	274.0	812.6	1,294		624	14.85	9.4	2.1	3.18	2.01	33.6	3.18
48.10	47.98	44.8	1.54	-0.89	44.6	3.43	5	126	2.92	1.73	24.1	26.1	3.68	4	2.75	29.5	0.00	29.5	4	0.05	1	43.08	0.57	274.0	811.9	1,293		584	13.90	8.7	1.9	2.98	1.87	33.2	2.98
48.20	48.11	42.8	1.64	-0.89	42.6	3.82	5	127	2.93	1.74	22.8	24.6	4.12	4	2.80	28.0	0.00	28.0	4	0.05	1	45.83	0.57	274.0	817.1	1,313		556	13.23	8.2	1.7	2.83	1.76	32.9	2.83
48.30	48.24	43.1	1.68	-0.89	42.9	3.90	5	127	2.93	1.74	23.0	24.8	4.20	4	2.80	28.2	0.00	28.2	4	0.05	1	46.05	0.57	274.0	822.4	1,332		560	13.34	8.3	1.7	2.86	1.77	32.9	2.86
48.40	48.37	44.7	1.75	-0.89	44.5	3.91	5	127	2.94	1.75	23.8	25.7	4.21	4	2.79	29.3	0.00	29.3	4	0.05	1	45.40	0.57	274.0	832.1	1,368		582	13.85	8.6	1.7	2.97	1.84	33.1	2.97
48.60	48.50	47.8	1.89	-0.89	47.7	3.95	5	128	2.95	1.75	25.6	27.7	4.22	4	2.77	31.5	0.00	31.5	4	0.05	1	44.16	0.56	274.0	851.4	1,441		626	14.91	9.2	1.7	3.19	1.98	33.5	3.19
48.70	48.64	49.1	1.94	-0.89	49.0	3.95	5	128	2.96	1.75	26.2	28.5	4.22	4	2.76	32.4	0.00	32.4	4	0.05	1	43.65	0.56	273.9	858.7	1,469		644	15.34	9.5	1.7	3.29	2.04	33.6	3.29
48.80	48.77	48.5	1.98	-0.89	48.4	4.08	5	128	2.97	1.76	25.8	28.0	4.36	4	2.77	31.9	0.00	31.9	4	0.05	1	44.48	0.56	274.0	861.1	1,479		636	15.14	9.3	1.6	3.24	2.00	33.5	3.24
49.00	48.90	46.0	2.04	-0.89	45.8	4.44	4	128	2.98	1.76	24.3	26.2	4.77	3	2.82	30.0	0.00	30.0	4	0.05	1	47.11	0.57	274.0	860.9	1,479		600	14.28	8.7	1.5	3.06	1.87	33.2	3.06
49.10	49.02	44.0	2.06	-0.89	43.8	4.68	4	128	2.98	1.77	23.1	24.8	5.04	3	2.85	28.5	0.00	28.5	4	0.05	1	49.03	0.57	274.0	857.9	1,468		572	13.61	8.3	1.4	2.92	1.77	32.9	2.92
49.20	49.17	45.9	2.26	-0.89	45.7	4.93	4	129	2.99	1.77	24.1	25.9	5.30	3	2.85	29.8	0.00	29.8	4	0.05	1	49.10	0.57	274.0	878.2	1,548		598	14.24	8.6	1.3	3.05	1.85	33.1	3.05
49.40	49.30	61.2	2.79	-0.89	61.0	4.58	4	132	3.00	1.78	32.6	35.7	4.81	4	2.73	40.7	0.00	40.7	4	0.04	1	41.99	0.54	273.9	945.7	1,828		812	19.33	11.9	1.5	4.14	2.55	34.7	4.14
49.50	49.42	73.6	3.39	-0.89	73.4	4.95	12	134	3.01	1.78	39.5	43.7	4.82	4	2.67	49.8	0.00	49.8	4	0.03	1	38.89	0.53	273.9	1,004.1	2,099		986	23.47	14.6	1.5	5.03	3.12	35.6	5.03
49.60	49.55	81.1	3.65	-0.89	80.9	5.15	12	135	3.02	1.79	43.6	48.5	4.68	4	2.63	55.4	0.00	55.4	4	0.03	1	36.91	0.52	273.8	1,030.7	2,232		1,091	25.97	16.2	1.5	5.56	3.47	36.1	5.56
49.80	49.68	81.4	2.22	-0.88	81.3	3.31	6	132	3.03	1.79	43.7	50.6	2.84	5	2.38	55.6	2.24	117.8	5	0.03	1	25.77	0.52	273.8	883.4	1,600	1,151	1,096	2.03	1.1				36.3	0.04
49.90	49.81	69.0	1.55	-0.88	68.9	3.05	6	130	3.04	1.79	36.7	42.5	2.35	5	2.38	46.2	2.22	105.8	5	0.03	1	25.66	0.54	273.9	808.6	1,318	964	921	1.79	0.9				35.5	0.03
50.00	49.94	60.6	1.51	-0.87	60.4	3.70	5	130	3.04	1.80	31.9	36.5	2.63	5	2.46	39.9	2.54	99.7	5	0.04	1	28.78	0.55	273.9	791.9	1,265	925	804	1.80	0.8				34.8	0.03
50.10	50.06	71.5	1.37	-0.88	71.4	3.18	6	130	3.05	1.80	37.9	44.4	2.01	5	2.33	47.9	2.02	106.2	5	0.03	1	23.46	0.53	273.9	795.2	1,281	932	957	1.80	1.0				35.7	0.03

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Z_b (ft)	Z_m (ft)	$C_c/(1+e_0)$(%)	$C_r/(1+e_0)$(%)	μ_{FC}	μ_{LL}	μ_{PI}	K_0	D_R (%)	$N_{60L\&B}$	$(N_{60})_{Ic}$	$(N_1)_{60L\&B}$	C_N	$(N_1)_{60cs1\&R}$	$(N_1)_{60cs1c}$	$(N_1)_{60cs1\&B}$	$(N_1)_{60qc1ncs}$	r_d	MSF	K_σ	K_a	$CSR_{7.5}$	$CRR_{7.5}$	FS	τ_{av} (tsf)	p'(tsf)	γ_{max} (%)	G/G_0	ε_v (%)	ΔS_i	ΣS_i (in)
0.30	0.17	5.77	1.92	49.8	17.6	5.8	1.49		3.7	2.4	0.1	1.70	12.6	9.8	5.6	9.5	1.00	1.03	1.10	1.00	0.37	1.30		0.00	0.01		0.00		0.00	1.12
0.50	0.41	0.32	0.11	0.0	6.2	1.8	1.54	94.7	41.1	30.6	50.6	1.70	70.3	52.3	50.6	53.4	1.00	1.45	1.10	1.00	0.26	1.30		0.01	0.04	0.001	0.95	0.00	0.00	1.12
0.60	0.53	0.31	0.10	0.0	6.2	1.8	1.60	98.1	45.4	33.3	55.8	1.70	77.3	56.7	55.8	56.4	1.00	1.45	1.10	1.00	0.26	1.30		0.01	0.05	0.001	0.95	0.00	0.00	1.12
0.70	0.66	0.33	0.11	0.0	6.7	2.0	1.51	93.0	39.1	29.7	48.1	1.70	67.2	51.2	48.2	54.0	1.00	1.45	1.10	1.00	0.26	1.30		0.02	0.06	0.001	0.94	0.00	0.00	1.12
0.90	0.80	0.40	0.13	0.0	7.0	2.1	1.47	93.2	48.6	28.8	44.7	1.70	84.8	50.5	45.6	56.1	1.00	1.45	1.10	1.00	0.26	1.30		0.02	0.07	0.001	0.94	0.00	0.00	1.12
1.00	0.94	0.41	0.14	0.0	7.2	2.1	1.45	92.6	47.1	28.0	43.2	1.70	82.4	49.2	44.1	54.8	1.00	1.45	1.10	1.00	0.26	1.30		0.03	0.08	0.002	0.93	0.00	0.00	1.12
1.10	1.06	0.32	0.11	0.0	6.9	2.0	1.55	95.1	41.6	31.5	51.2	1.70	71.5	54.1	51.3	56.8	1.00	1.45	1.10	1.00	0.26	1.30		0.03	0.10	0.002	0.93	0.00	0.00	1.12
1.30	1.19	0.31	0.10	0.0	6.8	2.0	1.60	98.1	45.4	33.4	55.8	1.70	77.4	56.9	55.8	57.1	1.00	1.45	1.10	1.00	0.26	1.30		0.03	0.11	0.002	0.93	0.00	0.00	1.12
1.40	1.32	0.35	0.12	0.0	7.7	2.3	1.43	88.4	33.8	26.1	41.0	1.70	58.4	45.2	41.4	48.7	1.00	1.45	1.10	1.00	0.26	1.30		0.04	0.11	0.003	0.91	0.00	0.00	1.12
1.50	1.45	0.50	0.17	6.2	8.6	2.6	1.26	86.9	33.5	20.7	29.0	1.70	60.5	38.2	31.2	44.7	1.00	1.45	1.10	1.00	0.26	1.30		0.04	0.11	0.003	0.89	0.00	0.00	1.12
1.70	1.58	0.66	0.22	13.7	9.7	3.0	1.10	82.2	29.0	16.2	18.8	1.70	56.0	32.9	23.0	44.8	1.00	1.45	1.10	1.00	0.26	1.29		0.04	0.11	0.004	0.86	0.00	0.00	1.12
1.80	1.71	0.18	0.06	20.2	10.8	3.4	0.98	77.1	27.5	13.3	12.5	1.70	56.5	29.6	17.6	49.3	1.00	1.32	1.10	1.00	0.29	0.43		0.05	0.11	0.005	0.83	0.00	0.00	1.12
1.90	1.85	0.20	0.07	23.6	11.4	3.6	0.93	74.5	24.2	12.0	10.1	1.70	51.0	27.5	15.3	48.0	1.00	1.26	1.10	1.00	0.30	0.31		0.05	0.12	0.006	0.80	0.00	0.00	1.12
2.00	1.98	0.21	0.07	25.4	11.8	3.7	0.90	73.0	22.8	11.3	9.1	1.70	48.2	26.0	14.3	44.3	1.00	1.23	1.10	1.00	0.31	0.27		0.05	0.12	0.007	0.77	0.01	0.00	1.12
2.20	2.11	0.22	0.07	27.2	12.1	3.8	0.88	71.7	21.7	10.6	8.3	1.70	45.7	24.6	13.4	40.4	0.99	1.21	1.10	1.00	0.31	0.24		0.06	0.13	0.009	0.72	0.01	0.00	1.12
2.30	2.24	0.23	0.08	28.5	12.4	3.9	0.87	70.9	21.0	10.2	7.8	1.70	44.2	23.8	12.9	38.4	0.99	1.20	1.10	1.00	0.32	0.22		0.06	0.13	0.010	0.69	0.01	0.00	1.12
2.40	2.37	0.24	0.08	29.3	12.6	4.0	0.86	70.5	20.6	10.0	7.5	1.70	43.5	23.3	12.6	37.3	0.99	1.19	1.10	1.00	0.32	0.22		0.06	0.14	0.012	0.67	0.01	0.00	1.12
2.60	2.51	0.23	0.08	29.5	12.6	4.0	0.87	70.9	16.8	10.2	7.8	1.70	36.1	23.5	12.9	36.8	0.99	1.20	1.10	1.00	0.32	0.22		0.07	0.15	0.012	0.66	0.01	0.00	1.12
2.70	2.63	0.23	0.08	29.8	12.7	4.0	0.87	71.0	21.1	10.3	7.9	1.70	44.4	23.8	13.0	38.0	0.99	1.20	1.10	1.00	0.32	0.23		0.07	0.16	0.013	0.66	0.01	0.00	1.12
2.80	2.76	0.24	0.08	31.1	12.9	4.1	0.86	70.6	20.4	10.1	7.4	1.70	43.7	23.9	12.6	40.9	0.99	1.19	1.10	1.00	0.32	0.22		0.07	0.16	0.013	0.66	0.01	0.00	1.12
3.00	2.90	0.25	0.08	32.6	13.3	4.2	0.84	70.0	19.5	9.9	6.7	1.70	42.7	24.0	12.1	44.0	0.99	1.19	1.10	1.00	0.32	0.21		0.08	0.17	0.013	0.66	0.01	0.00	1.12
3.10	3.02	0.27	0.09	34.4	13.7	4.4	0.81	69.0	24.4	9.6	5.9	1.70	53.4	23.9	11.4	47.3	0.99	1.17	1.10	1.00	0.32	0.20		0.08	0.17	0.014	0.66	0.01	0.00	1.12
3.20	3.16	0.27	0.09	35.5	13.9	4.5	0.80	68.5	35.6	9.4	5.6	1.70	76.4	23.8	11.1	48.8	0.99	1.17	1.10	1.00	0.32	0.19		0.09	0.18		0.00		0.00	1.12
3.40	3.30	0.28	0.09	36.6	14.2	4.6	0.79	68.0	34.5	9.2	5.2	1.70	74.8	23.6	10.7	50.0	0.99	1.16	1.10	1.00	0.33	0.19		0.09	0.18		0.00		0.00	1.12
3.50	3.43	0.29	0.10	37.8	14.4	4.7	13.25		33.3	9.0	4.8	1.70	73.0	23.5	10.4	15.4	0.99	1.05	1.10	1.00	0.36	1.30		0.09	2.03		0.00		0.00	1.12
3.60	3.56	0.30	0.10	38.7	14.6	4.7	12.97		32.6	8.9	4.6	1.70	71.6	23.2	10.2	15.2	0.99	1.04	1.10	1.00	0.36	1.30		0.10	2.06		0.00		0.00	1.12
3.80	3.70	0.30	0.10	39.1	14.7	4.8	12.96		32.6	8.9	4.6	1.70	71.6	23.2	10.2	15.2	0.99	1.04	1.10	1.00	0.36	1.30		0.10	2.14		0.00		0.00	1.12
3.90	3.82	0.30	0.10	39.2	14.8	4.8	13.09		33.0	9.0	4.7	1.70	72.2	23.3	10.3	15.3	0.99	1.04	1.10	1.00	0.36	1.30		0.10	2.23		0.00		0.00	1.12
4.00	3.95	0.29	0.10	39.6	14.9	4.8	13.10		33.0	8.9	4.7	1.70	72.3	23.2	10.3	15.2	0.99	1.04	1.10	1.00	0.36	1.30		0.11	2.31		0.00		0.00	1.12
4.20	4.09	0.29	0.10	39.8	14.9	4.8	13.19		33.2	9.0	4.8	1.70	72.8	23.4	10.3	15.3	0.99	1.05	1.10	1.00	0.36	1.30		0.11	2.41		0.00		0.00	1.12
4.30	4.22	0.28	0.09	39.5	14.9	4.8	13.20		34.2	9.3	5.1	1.70	74.8	23.9	10.7	15.7	0.99	1.05	1.10	1.00	0.36	1.30		0.11	2.48		0.00		0.00	1.12
4.40	4.34	0.29	0.10	40.4	15.1	4.9	12.54		33.4	9.2	4.9	1.70	73.2	23.7	10.4	15.6	0.99	1.05	1.10	1.00	0.36	1.30		0.12	2.43		0.00		0.00	1.12
4.50	4.47	0.27	0.09	39.3	14.8	4.8	13.01		35.7	9.7	5.6	1.70	77.8	24.7	11.1	16.4	0.99	1.05	1.10	1.00	0.36	1.30		0.12	2.59		0.00		0.00	1.12
4.70	4.61	0.27	0.09	39.4	14.8	4.8	12.72		36.0	9.8	5.7	1.70	78.4	24.9	11.3	16.6	0.99	1.05	1.10	1.00	0.36	1.30		0.12	2.62		0.00		0.00	1.12
4.80	4.74	0.27	0.09	39.7	14.9	4.8	12.37		36.0	9.8	5.7	1.70	78.4	25.0	11.3	16.7	0.98	1.05	1.10	1.00	0.36	1.30		0.13	2.62		0.00		0.00	1.12
4.90	4.86	0.26	0.09	39.5	14.9	4.8	12.33		36.8	10.0	6.0	1.70	80.0	25.4	11.5	17.0	0.98	1.05	1.10	1.00	0.36	1.30		0.13	2.68		0.00		0.00	1.12
5.10	5.00	0.26	0.09	39.4	14.8	4.8	12.21		37.5	10.2	6.2	1.70	81.4	25.7	11.8	17.3	0.98	1.05	1.10	1.00	0.36	1.30		0.13	2.73		0.00		0.00	1.12
5.20	5.13	0.26	0.09	39.6	14.9	4.8	11.98		37.7	10.2	6.3	1.70	82.0	25.9	11.8	17.4	0.98	1.05	1.10	1.00	0.36	1.30		0.14	2.75		0.00		0.00	1.12
5.30	5.26	0.26	0.09	39.6	14.9	4.8	0.83	70.2	38.2	10.3	6.5	1.70	82.9	26.1	12.0	58.0	0.98	1.19	1.10	1.00	0.32	0.21		0.14	0.30		0.00		0.00	1.12
5.50	5.40	0.25	0.08	39.8	14.9	4.8	0.83	70.3	38.4	10.4	6.6	1.70	83.4	26.2	12.1	58.0	0.98	1.19	1.10	1.00	0.32	0.21		0.14	0.31		0.00		0.00	1.12
5.60	5.52	0.25	0.08	40.0	15.0	4.8	0.83	70.3	38.4	10.4	6.6	1.70	83.4	26.2	12.1	58.2	0.98	1.19	1.10	1.00	0.32	0.21		0.15	0.32	0.023	0.61	0.01	0.00	1.12
5.70	5.65	0.25	0.08	40.3	15.0	4.9	0.83	70.3	38.4	10.4	6.6	1.70	83.3	26.2	12.1	58.2	0.98	1.19	1.10	1.00	0.32	0.21		0.15	0.32		0.00		0.00	1.12
5.90	5.80	0.26	0.09	41.3	15.3	5.0	10.45		37.3	10.1	6.2	1.68	80.3	25.5	11.7	17.3	0.98	1.05	1.09	1.00	0.36	1.30		0.15	2.73		0.00		0.00	1.12
6.00	5.94	0.27	0.09	42.4	15.6	5.1	9.85		36.0	9.9	5.7	1.66	76.8	24.7	11.3	16.8	0.98	1.05	1.09	1.00	0.36	1.30		0.16	2.64		0.00		0.00	1.12
6.10	6.06	0.28	0.09	43.1	15.7	5.1	9.45		35.3	9.7	5.5	1.65	74.7	24.1	11.0	16.5	0.98	1.05	1.09	1.00	0.36	1.30		0.16	2.59		0.00		0.00	1.12
6.30	6.19	0.28	0.09	43.8	15.9	5.2	9.08		34.6	9.5	5.3	1.63	72.7	23.5	10.8	16.1	0.98	1.05	1.08	1.00	0.36	1.30		0.16	2.55		0.00		0.00	1.12
6.40	6.31	0.29	0.10	44.3	16.1	5.2	8.80		34.2	9.4	5.1	1.61	71.2	23.1	10.7	15.9	0.98	1.05	1.08	1.00	0.36	1.30		0.17	2.52		0.00		0.00	1.12
6.50	6.44	0.29	0.10	45.0	16.3	5.3	8.43		33.5	9.2	4.9	1.60	69.1	22.6	10.4	15.6	0.98	1.05	1.08	1.00	0.36	1.30		0.17	2.47		0.00		0.00	1.12
6.70	6.58	0.30	0.10	46.0	16.5	5.4	7.99		32.4	8.9	4.5	1.58	66.4	22.0	10.1	15.2	0.98	1.04	1.08	1.00	0.37	1.30		0.17	2.40		0.00		0.00	1.12
6.80	6.71	0.30	0.10	46.3	16.6	5.4	7.82		32.4	8.9	4.5	1.56	65.8	21.8	10.1	15.2	0.98	1.04	1.07	1.00	0.37	1.30		0.18	2.40		0.00		0.00	1.12
6.90	6.83	0.30	0.10	46.0	16.5	5.4	7.85		33.1	9.1	4.8	1.55	66.5	21.9	10.3	15.4	0.98	1.04	1.07	1.00	0.37	1.30		0.18	2.45		0.00		0.00	1.12
7.00	6.97	0.29	0.10	46.0	16.5	5.4	7.77		33.4	9.1	4.8	1.54	66.5	21.8	10.4	15.5	0.98	1.05	1.07	1.00	0.37	1.30		0.18	2.47		0.00		0.00	1.12
7.20	7.10	0.29	0.10	46.3	16.6	5.4	7.62		33.3	9.1	4.8	1.52	65.9	21.5	10.3	15.4	0.98	1.04	1.07	1.00	0.37	1.30		0.19	2.47		0.00		0.00	1.12
7.30	7.23	0.30	0.10	47.1	16.8	5.5	7.30		32.5	8.9	4.5	1.51	63.9	21.0	10.0	15.1	0.97	1.04	1.07	1.00	0.37	1.30		0.19	2.42		0.00		0.00	1.12
7.40	7.36	0.31	0.10	47.9	17.1	5.6	6.97		31.6	8.6	4.2	1.49	61.7	20.5	9.7	14.7	0.97	1.04	1.07	1.00	0.37	1.30		0.19	2.36		0.00		0.00	1.12
7.60	7.49	0.32	0.11	48.8	17.3	5.7	6.65		30.8	8.4	3.9	1.48	59.7	19.9	9.4	14.3	0.97	1.04	1.06	1.00	0.37	1.30		0.20	2.30		0.00		0.00	1.12
7.70	7.62	0.33	0.11	50.0	17.6	5.8	6.27		29.5	8.1	3.5	1.47	57.1	19.3	9.0	13.8	0.97	1.04	1.06	1.00	0.37	1.30		0.20	2.21		0.00		0.00	1.12
7.80	7.76	0.34	0.11	50.5	17.8	5.9	6.07		29.1	8.0	3.4	1.46	55.9	18.9	8.9	13.5	0.97	1.04	1.06	1.00	0.37	1.30		0.20	2.19		0.00		0.00	1.12
8.00	7.89	0.34	0.11	50.8	17.9	5.9	5.96		29.1	7.9	3.3	1.44	55.4	18.8	8.8	13.5	0.97	1.04	1.06	1.00	0.37	1.30		0.21	2.18		0.00		0.00	1.12
8.10	8.02	0.34	0.11	51.0	17.9	5.9	5.87		29.1	7.9	3.3	1.43	55.0	18.7	8.8	13.5	0.97	1.04	1.06	1.00	0.37	1.30		0.21	2.19		0.00		0.00	1.12
8.20	8.14	0.35	0.12	51.8	18.2	6.0	5.62		28.3	7.8	3.0	1.42	53.3	18.3	8.6	13.2	0.97	1.04	1.05	1.00	0.37	1.30		0.21	2.13		0.00		0.00	1.12
8.30	8.27	0.37	0.12	53.5	18.7	6.2	5.20		26.6	7.2	3.2	1.41	50.0	17.3	8.7	14.2	0.97	1.04	1.05	1.00	0.37	1.30		0.22	2.02		0.00		0.00	1.12
8.50	8.40	0.40	0.13	55.3	19.2	6.4	4.77		24.8	6.9	2.6	1.40	46.7	16.6	8.2	13.3	0.97	1.04	1.05	1.00	0.38	1.30		0.22	1.89		0.00		0.00	1.12
8.60	8.54	0.41	0.14	56.3	19.6	6.5	4.53		24.0	6.7	2.3	1.39	45.0	16.1	7.9	12.6	0.97	1.04	1.05	1.00	0.38	1.30		0.22	1.84		0.00		0.00	1.12
8.80	8.68	0.46	0.15	58.7	20.3	6.8	4.06		21.9	6.2	1.7	1.38	41.2	15.3	7.3	11.5	0.97	1.04	1.04	1.00	0.38	1.30		0.23	1.69		0.00		0.00	1.12
8.90	8.81	0.50	0.17	61.0	21.2	7.1	3.64		20.0	5.8	1.2	1.37	37.8	14.5	6.8	10.5	0.97	1.04	1.04	1.00	0.38	1.30		0.23	1.56		0.00		0.00	1.12
9.00	8.94	0.56	0.19	63.7	22.1	7.5	3.22		18.0	5.3	0.7	1.36	34.3	13.7	6.3	9.5	0.97	1.03	1.04	1.00	0.38	1.30		0.23	1.42		0.00		0.00	1.12
9.20	9.09	0.61	0.20	65.4	22.7	7.7	2.98		16.9	5.0	0.5	1.35	32.4	13.1	6.1	8.9	0.97	1.03	1.04	1.00	0.38	1.30		0.24	1.35		0.00		0.00	1.12
9.30	9.21	0.63	0.21	66.4	23.1	7.9	2.84		16.4	4.9	0.4	1.34	31.3	12.9	6.0	8.5	0.97	1.03	1.04	1.00	0.38	1.30		0.24	1.31		0.00		0.00	1.12

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Z_b (ft)	Z_m (ft)	$C_c/(1+e_0)$(%)	$C_r/(1+e_0)$(%)	μ_{FC}	μ_{LL}	μ_{PI}	K_0	D_R (%)	$N_{60L\&B}$	$(N_{60})_{Ic}$	$(N_1)_{60L\&B}$	C_N	$(N_1)_{60csL\&R}$	$(N_1)_{60csIc}$	$(N_1)_{60csL\&B}$	$(N_1)_{60qcIncs}$	r_d	MSF	K_σ	K_α	$CSR_{7.5}$	$CRR_{7.5}$	FS	τ_{av} (tsf)	p'(tsf)	γ_{max} (%)	G/G_0	ε_v (%)	ΔS_i	ΣS_i (in)
9.40	9.33	0.65	0.22	67.0	23.3	8.0	2.75		16.1	4.8	0.4	1.33	30.7	12.7	6.0	8.3	0.96	1.03	1.03	1.00	0.38	1.30		0.24	1.29		0.00		0.00	1.12
9.50	9.46	0.66	0.22	67.3	23.4	8.0	2.70		16.0	4.8	0.4	1.32	30.4	12.7	6.0	8.1	0.96	1.03	1.03	1.00	0.38	1.30		0.24	1.29		0.00		0.00	1.12
9.60	9.58	0.66	0.22	67.0	23.3	8.0	2.72		16.3	4.9	0.4	1.32	30.7	12.7	6.0	8.2	0.96	1.03	1.03	1.00	0.38	1.30		0.25	1.31		0.00		0.00	1.12
9.80	9.72	0.67	0.22	67.3	23.4	8.0	2.67		16.2	4.9	0.4	1.31	30.5	12.6	6.0	8.0	0.96	1.03	1.03	1.00	0.38	1.30		0.25	1.31		0.00		0.00	1.12
9.90	9.87	0.68	0.23	67.6	23.6	8.0	2.63		16.2	4.9	0.4	1.30	30.2	12.6	6.0	7.9	0.96	1.03	1.03	1.00	0.38	1.30		0.25	1.31		0.00		0.00	1.12
10.00	9.97	0.68	0.23	67.7	23.6	8.1	2.61		16.2	4.8	0.4	1.29	30.2	12.5	6.0	7.8	0.96	1.03	1.03	1.00	0.38	1.30		0.26	1.31		0.00		0.00	1.12
10.10	10.07	0.68	0.23	67.5	23.5	8.0	2.62		16.4	4.8	0.4	1.29	30.3	12.5	6.0	7.8	0.96	1.03	1.03	1.00	0.38	1.30	2.00	0.26	1.32				0.00	1.12
10.20	10.19	0.69	0.23	68.0	23.7	8.1	2.56		16.1	4.8	0.4	1.29	29.8	12.4	6.0	7.7	0.96	1.03	1.03	1.00	0.38	1.30	2.00	0.26	1.30				0.00	1.12
10.40	10.31	0.70	0.23	68.2	23.8	8.1	2.53		16.0	4.8	0.4	1.28	29.6	12.4	6.0	7.6	0.96	1.03	1.03	1.00	0.39	1.30	2.00	0.26	1.30				0.00	1.12
10.50	10.44	0.70	0.23	68.1	23.7	8.1	2.54		16.2	4.8	0.4	1.28	29.8	12.4	6.0	7.6	0.96	1.03	1.03	1.00	0.39	1.30	2.00	0.27	1.31				0.00	1.12
10.60	10.57	0.73	0.24	69.3	24.2	8.3	2.41		15.4	4.7	0.4	1.27	28.6	12.2	6.0	7.3	0.96	1.03	1.03	1.00	0.39	1.30	2.00	0.27	1.26				0.00	1.12
10.80	10.71	0.75	0.25	70.0	24.5	8.4	2.33		15.1	4.6	0.3	1.27	28.0	12.0	6.0	7.1	0.96	1.03	1.03	1.00	0.39	1.30	2.00	0.27	1.24				0.00	1.12
10.90	10.84	0.76	0.25	69.9	24.5	8.4	2.33		15.2	4.6	0.3	1.27	28.1	12.0	6.0	7.1	0.96	1.03	1.03	1.00	0.39	1.30	2.00	0.28	1.24				0.00	1.12
11.00	10.97	0.76	0.25	70.1	24.5	8.4	2.31		15.1	4.6	0.3	1.26	27.9	12.0	6.0	7.0	0.96	1.03	1.03	1.00	0.40	1.30	2.00	0.28	1.24				0.00	1.12
11.20	11.11	0.77	0.26	70.3	24.6	8.5	2.28		15.0	4.6	0.3	1.26	27.7	11.9	6.0	7.0	0.96	1.03	1.03	1.00	0.40	1.30	2.00	0.28	1.24				0.00	1.12
11.30	11.25	0.78	0.26	70.6	24.8	8.5	2.25		14.9	4.5	0.3	1.26	27.5	11.8	5.9	6.8	0.96	1.03	1.03	1.00	0.40	1.28	2.00	0.29	1.23				0.00	1.12
11.40	11.38	0.79	0.26	70.8	24.8	8.5	2.23		14.8	4.5	0.3	1.25	27.3	11.8	5.9	6.8	0.96	1.03	1.03	1.00	0.40	1.27	2.00	0.29	1.22				0.00	1.12
11.60	11.50	0.81	0.27	71.5	25.1	8.6	2.16		14.5	4.4	0.3	1.25	26.7	11.7	5.9	6.6	0.95	1.03	1.03	1.00	0.41	1.23	2.00	0.29	1.20				0.00	1.12
11.70	11.63	0.83	0.28	72.1	25.4	8.7	2.09		14.2	4.4	0.3	1.25	26.2	11.5	5.9	6.5	0.95	1.03	1.02	1.00	0.41	1.20	2.00	0.29	1.18				0.00	1.12
11.80	11.75	0.84	0.28	72.4	25.5	8.8	2.07		14.1	4.4	0.3	1.24	26.0	11.5	5.9	6.4	0.95	1.03	1.02	1.00	0.41	1.18	2.00	0.30	1.17				0.00	1.12
12.00	11.88	0.85	0.28	72.7	25.6	8.8	2.04		13.9	4.3	0.3	1.24	25.7	11.5	5.9	6.4	0.95	1.03	1.02	1.00	0.41	1.16	2.00	0.30	1.16				0.00	1.12
12.10	12.02	0.86	0.29	72.7	25.6	8.8	2.03		14.0	4.4	0.3	1.24	25.8	11.5	5.9	6.3	0.95	1.03	1.02	1.00	0.41	1.16	2.00	0.30	1.17				0.00	1.12
12.20	12.15	0.85	0.28	72.5	25.5	8.8	2.05		14.2	4.4	0.3	1.23	26.0	11.5	5.9	6.4	0.95	1.03	1.02	1.00	0.42	1.17	2.00	0.31	1.18				0.00	1.12
12.40	12.28	0.83	0.28	71.9	25.3	8.7	2.09		14.5	4.5	0.3	1.23	26.5	11.7	5.9	6.5	0.95	1.03	1.02	1.00	0.42	1.20	2.00	0.31	1.21				0.00	1.12
12.50	12.41	0.82	0.27	71.5	25.1	8.7	2.12		14.8	4.6	0.3	1.23	26.8	11.7	5.9	6.5	0.95	1.03	1.02	1.00	0.42	1.21	2.00	0.31	1.23				0.00	1.12
12.60	12.54	0.83	0.28	71.9	25.3	8.7	2.08		14.6	4.5	0.3	1.22	26.5	11.7	5.9	6.5	0.95	1.03	1.02	1.00	0.42	1.19	2.00	0.31	1.21				0.00	1.12
12.80	12.68	0.84	0.28	72.1	25.4	8.7	2.06		14.6	4.5	0.3	1.22	26.4	11.6	5.9	6.4	0.95	1.03	1.02	1.00	0.42	1.18	2.00	0.32	1.21				0.00	1.12
12.90	12.82	0.86	0.29	72.7	25.6	8.8	2.01		14.3	4.5	0.3	1.22	25.9	11.5	5.9	6.3	0.95	1.03	1.02	1.00	0.42	1.15	2.00	0.32	1.19				0.00	1.12
13.00	12.95	0.87	0.29	72.9	25.7	8.9	1.98		14.2	4.4	0.3	1.22	25.7	11.5	5.9	6.2	0.95	1.03	1.02	1.00	0.43	1.13	2.00	0.32	1.19				0.00	1.12
13.10	13.07	0.92	0.31	74.1	26.2	9.1	1.88		13.6	4.3	0.3	1.21	24.7	11.2	5.9	5.9	0.95	1.03	1.02	1.00	0.43	1.07	2.00	0.33	1.14				0.00	1.12
13.30	13.20	1.01	0.34	76.4	27.2	9.5	1.70		12.4	4.0	0.3	1.21	23.0	10.9	5.9	5.5	0.95	1.03	1.02	1.00	0.43	0.97	2.00	0.33	1.06				0.00	1.12
13.40	13.32	1.12	0.37	79.2	28.5	10.0	1.51		11.2	3.8	0.2	1.21	21.2	10.5	5.8	5.1	0.95	1.03	1.02	1.00	0.43	1.30		0.33	0.97				0.00	1.12
13.50	13.46	1.24	0.41	80.9	29.3	10.3	1.40		10.5	3.6	0.2	1.20	20.1	10.2	5.8	4.8	0.94	1.03	1.02	1.00	0.43	1.30		0.33	0.93				0.00	1.12
13.70	13.60	1.21	0.40	80.4	29.1	10.2	1.43		10.7	3.6	0.2	1.20	20.4	10.2	5.8	4.8	0.94	1.03	1.02	1.00	0.43	1.30		0.34	0.94				0.00	1.12
13.80	13.72	1.13	0.38	79.0	28.4	9.9	1.51		11.4	3.7	0.2	1.20	21.3	10.4	5.8	5.0	0.94	1.03	1.02	1.00	0.44	1.30		0.34	0.99				0.00	1.12
13.90	13.86	1.11	0.37	78.7	28.3	9.9	1.53		11.5	3.8	0.2	1.20	21.6	10.5	5.9	5.0	0.94	1.03	1.02	1.00	0.44	1.30		0.34	1.00				0.00	1.12
14.10	13.99	1.08	0.36	77.9	27.9	9.7	1.58		12.0	3.9	0.2	1.19	22.1	10.6	5.9	5.2	0.94	1.03	1.02	1.00	0.44	0.90	2.00	0.34	1.03				0.00	1.12
14.20	14.13	1.06	0.35	77.4	27.7	9.6	1.61		12.2	3.9	0.3	1.19	22.5	10.6	5.9	5.2	0.94	1.03	1.02	1.00	0.44	0.92	2.00	0.35	1.05				0.00	1.12
14.30	14.26	1.05	0.35	77.2	27.6	9.6	1.62		12.4	4.0	0.3	1.19	22.6	10.7	5.9	5.2	0.94	1.03	1.02	1.00	0.44	0.93	2.00	0.35	1.06				0.00	1.12
14.50	14.39	1.01	0.34	76.1	27.1	9.4	1.70		13.0	4.1	0.3	1.18	23.4	10.9	5.9	5.4	0.94	1.03	1.02	1.00	0.44	0.97	2.00	0.35	1.11				0.00	1.12
14.60	14.51	0.87	0.29	72.3	25.5	8.8	1.99		10.1	4.6	0.3	1.18	19.3	11.5	5.9	6.1	0.94	1.03	1.02	1.00	0.45	1.14	2.00	0.36	1.26				0.00	1.12
14.70	14.64	0.57	0.06	61.9	21.5	7.2	0.40	56.1	11.5	6.2	0.5	1.18	21.1	13.6	6.0	25.1	0.94	1.08	1.04	1.00	0.42	0.12	2.00	0.36	0.46				0.00	1.12
14.90	14.78	0.43	0.14	54.8	19.1	6.4	0.48	59.5	12.4	7.8	1.4	1.18	21.2	15.0	6.7	22.8	0.94	1.09	1.04	1.00	0.42	0.13	0.32	0.36	0.50	32.662		2.06	0.05	1.07
15.00	14.93	0.35	0.12	49.9	17.6	5.8	0.53	62.1	15.2	9.2	2.8	1.17	24.1	16.3	7.8	23.1	0.94	1.11	1.04	1.00	0.41	0.15	0.35	0.36	0.53	27.093		2.05	0.02	1.04
15.10	15.05	0.33	0.11	48.4	17.2	5.7	0.55	63.2	20.3	9.8	3.3	1.17	30.6	17.0	8.3	24.4	0.94	1.12	1.04	1.00	0.41	0.15	0.37	0.37	0.54	25.006		1.99	0.02	1.02
15.20	15.16	0.61	0.20	63.6	22.1	7.5	2.85		14.5	6.3	0.4	1.17	25.3	13.8	6.0	8.2	0.94	1.03	1.02	1.00	0.45	1.30	2.00	0.37	1.73				0.00	1.02
15.40	15.29	0.46	0.15	56.5	19.6	6.6	0.45	59.0	14.6	7.7	1.1	1.16	24.9	15.4	6.5	26.5	0.94	1.09	1.04	1.00	0.42	0.13	2.00	0.37	0.50				0.00	1.02
15.50	15.43	0.41	0.14	53.3	18.6	6.2	0.49	60.2	13.4	8.3	1.8	1.16	22.0	15.4	7.0	22.8	0.93	1.10	1.04	1.00	0.42	0.14	2.00	0.38	0.52				0.00	1.02
15.60	15.57	0.45	0.15	55.9	19.5	6.5	0.46	58.9	15.0	7.7	1.2	1.16	24.8	14.9	6.6	23.5	0.93	1.09	1.03	1.00	0.43	0.13	2.00	0.38	0.50				0.00	1.02
15.80	15.71	0.92	0.31	73.6	26.0	9.0	1.85		9.9	4.6	0.3	1.16	18.7	11.4	5.9	5.8	0.93	1.03	1.02	1.00	0.46	1.06	2.00	0.38	1.24				0.00	1.02
15.90	15.83	1.14	0.38	78.8	28.3	9.9	1.48		8.1	3.9	0.2	1.15	16.2	10.4	5.9	4.8	0.93	1.03	1.02	1.00	0.46	0.85	2.00	0.38	1.05				0.00	1.02
16.00	15.95	1.66	0.55	83.6	30.6	10.8	1.21		6.7	3.4	0.2	1.15	14.3	9.7	5.8	4.1	0.93	1.03	1.02	1.00	0.46	1.30		0.39	0.91				0.00	1.02
16.10	16.08	1.99	0.66	85.8	31.8	11.3	1.10		9.3	3.2	0.2	1.15	17.8	9.4	5.8	3.8	0.93	1.03	1.02	1.00	0.46	1.30		0.39	0.86				0.00	1.02
16.30	16.21	2.03	0.68	86.0	31.9	11.3	1.09		6.2	3.1	0.2	1.15	13.5	9.3	5.8	3.7	0.93	1.03	1.02	1.00	0.46	1.30		0.39	0.85				0.00	1.02
16.40	16.34	2.31	0.77	87.6	32.7	11.6	1.02		5.8	3.0	0.2	1.14	13.0	9.2	5.8	3.5	0.93	1.03	1.01	1.00	0.46	1.30		0.39	0.82				0.00	1.02
16.60	16.48	2.41	0.80	88.0	32.9	11.7	1.00		5.7	3.0	0.2	1.14	12.9	9.1	5.8	3.5	0.93	1.03	1.01	1.00	0.47	1.30		0.40	0.81				0.00	1.02
16.70	16.61	2.47	0.82	88.3	33.1	11.8	0.99		5.7	3.0	0.2	1.14	12.8	9.1	5.8	3.4	0.93	1.03	1.01	1.00	0.47	1.30		0.40	0.81				0.00	1.02
16.80	16.73	2.46	0.82	88.2	33.1	11.8	0.99		5.7	3.0	0.2	1.14	12.8	9.1	5.8	3.4	0.93	1.03	1.01	1.00	0.47	1.30		0.40	0.81				0.00	1.02
16.90	16.87	2.29	0.76	87.3	32.6	11.6	1.02		5.9	3.1	0.2	1.14	13.1	9.2	5.8	3.5	0.93	1.03	1.01	1.00	0.47	1.30		0.40	0.83				0.00	1.02
17.10	17.01	1.96	0.65	85.5	31.6	11.2	1.11		6.4	3.3	0.2	1.13	13.7	9.4	5.8	3.8	0.93	1.03	1.01	1.00	0.47	1.30		0.41	0.88				0.00	1.02
17.20	17.15	1.76	0.59	84.1	30.9	10.9	1.17		6.8	3.4	0.2	1.13	14.2	9.6	5.8	3.9	0.92	1.03	1.01	1.00	0.47	1.30		0.41	0.92				0.00	1.02
17.30	17.27	1.75	0.58	83.9	30.8	10.9	1.18		6.8	3.3	0.2	1.13	14.3	9.5	5.8	3.8	0.92	1.03	1.01	1.00	0.47	0.67	1.42	0.41	0.93				0.00	1.02
17.50	17.40	1.86	0.62	84.7	31.2	11.0	1.14		6.7	3.3	0.2	1.13	14.0	9.4	5.8	3.7	0.92	1.03	1.01	1.00	0.47	1.30		0.41	0.91				0.00	1.02
17.60	17.54	1.82	0.61	84.4	31.1	11.0	1.15		6.7	3.4	0.2	1.12	14.1	9.5	5.8	3.8	0.92	1.03	1.01	1.00	0.48	1.30		0.42	0.92				0.00	1.02
17.70	17.67	1.58	0.53	82.6	30.2	10.6	1.24		7.2	3.5	0.2	1.12	14.7	9.7	5.8	4.0	0.92	1.03	1.01	1.00	0.48	0.71	1.48	0.42	0.97				0.00	1.02
17.90	17.80	1.22	0.41	79.4	28.6	10.0	1.42		6.2	3.8	0.2	1.12	13.3	10.1	5.8	4.3	0.92	1.03	1.01	1.00	0.48	0.81	1.70	0.42	1.08				0.00	1.02
18.00	17.95	1.53	0.51	82.2	29.9	10.5	1.26		5.6	3.5	0.2	1.12	12.4	9.8	5.8	4.0	0.92	1.03	1.01	1.00	0.48	0.72	1.50	0.42	0.99				0.00	1.02
18.10	18.08	1.53	0.51	82.1	29.9	10.5	1.26		5.6	3.6	0.2	1.12	12.5	9.8	5.8	4.0	0.92	1.03	1.01	1.00	0.48	0.72	1.50	0.43	1.00				0.00	1.02
18.20	18.18	1.12	0.37	77.7	27.8	9.7	1.51		6.6	4.1	0.2	1.11	13.8	10.5	5.9	4.7	0.92	1.03	1.01	1.00	0.48	0.86	1.80	0.43	1.14				0.00	1.02

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Z_b(ft)	Z_m(ft)	$C_c/(1+e_0)$(%)	$C_r/(1+e_0)$(%)	μ_{FC}	μ_{LL}	μ_{PI}	K_θ	D_R (%)	$N_{60L\&B}$	$(N_{60})_{Ic}$	$(N_1)_{60L\&B}$	C_N	$(N_1)_{60cs1\&R}$	$(N_1)_{60cs1c}$	$(N_1)_{60qc1ncs}$	r_d	MSF	K_σ	K_α	$CSR_{7.5}$	$CRR_{7.5}$	FS	τ_{av}(tsf)	p'(tsf)	γ_{max} (%)	G/G_0	ε_v (%)	ΔS_i	ΣS_i (in)
18.40	18.32	0.79	0.26	69.2	24.2	8.3	2.16		9.3	5.5	0.3	1.11	17.4	12.3	6.0	6.4	0.92	1.03	1.01	1.00	0.48	1.23	2.00	0.43	1.52				0.00	1.02
18.50	18.45	0.59	0.20	62.1	21.5	7.3	2.91		12.4	7.0	0.5	1.11	21.5	14.3	6.0	8.3	0.92	1.04	1.01	1.00	0.48	1.30	2.00	0.43	1.96				0.00	1.02
18.60	18.57	0.43	0.14	54.6	19.0	6.3	0.46	60.4	16.8	9.0	1.5	1.11	27.2	17.0	7.0	32.7	0.92	1.10	1.02	1.00	0.45	0.14	2.00	0.44	0.55				0.00	1.02
18.80	18.70	0.34	0.11	48.4	17.2	5.6	0.52	63.9	17.4	10.9	3.3	1.10	26.5	18.4	8.6	30.3	0.92	1.12	1.03	1.00	0.44	0.15	2.00	0.44	0.59				0.00	1.02
18.90	18.84	0.28	0.09	43.6	15.9	5.2	0.58	66.3	17.6	12.5	5.3	1.10	25.3	19.1	10.1	26.7	0.92	1.14	1.03	1.00	0.43	0.17	0.40	0.44	0.63	19.467		1.88	0.02	1.00
19.00	18.97	0.92	0.31	42.5	15.6	5.1	0.59	64.7	18.5	12.2	5.8	1.10	24.6	17.2	9.7	20.4	0.91	1.13	1.02	1.00	0.44	0.16	0.36	0.45	0.64	22.209		2.79	0.03	0.96
19.20	19.11	1.00	0.33	46.3	16.6	5.4	0.54	60.0	15.9	10.2	4.1	1.10	20.9	14.4	7.5	16.0	0.91	1.10	1.02	1.00	0.45	0.14	0.30	0.45	0.61	31.457		3.23	0.08	0.88
19.30	19.24	0.45	0.15	55.2	19.2	6.4	0.45	57.7	11.1	7.8	1.4	1.09	17.4	13.5	6.3	17.0	0.91	1.08	1.02	1.00	0.46	0.13	2.00	0.45	0.56				0.00	0.88
19.40	19.36	0.70	0.07	65.8	22.9	7.8	0.35	53.6	8.7	5.7	0.4	1.09	16.0	12.2	5.8	18.3	0.91	1.07	1.02	1.00	0.47	0.12	2.00	0.45	0.50				0.00	0.88
19.60	19.50	0.91	0.30	72.2	25.4	8.8	1.88		6.8	4.6	0.3	1.09	13.9	11.0	5.8	5.1	0.91	1.03	1.01	1.00	0.49	1.07	2.00	0.46	1.41				0.00	0.88
19.70	19.64	1.64	0.55	82.6	30.1	10.6	1.21		5.7	3.5	0.2	1.09	12.5	9.5	5.8	3.7	0.91	1.03	1.01	1.00	0.49	0.69	2.00	0.46	1.02				0.00	0.88
19.80	19.76	3.67	1.22	92.4	35.4	12.7	0.80		5.3	2.8	0.1	1.09	12.0	8.6	5.7	2.8	0.91	1.03	1.01	1.00	0.49	1.30		0.46	0.78				0.00	0.88
20.00	19.89	4.75	1.58	95.6	37.3	13.5	0.70		4.8	2.7	0.1	1.08	11.2	8.5	5.7	2.6	0.91	1.03	1.01	1.00	0.49	1.30		0.46	0.72				0.00	0.88
20.10	20.02	4.93	1.64	96.1	37.6	13.6	0.69		7.1	2.7	0.1	1.08	14.2	8.5	5.7	2.6	0.91	1.03	1.01	1.00	0.49	1.30		0.46	0.71				0.00	0.88
20.20	20.15	3.70	1.23	92.5	35.5	12.7	0.80		5.4	2.8	0.1	1.08	12.0	8.7	5.7	2.8	0.91	1.03	1.01	1.00	0.50	1.30		0.47	0.78				0.00	0.88
20.40	20.30	2.50	0.83	87.6	32.7	11.6	0.98		4.8	3.1	0.2	1.08	11.2	9.0	5.8	3.2	0.91	1.03	1.01	1.00	0.50	0.56	1.12	0.47	0.89				0.00	0.88
20.50	20.43	2.25	0.75	86.3	32.0	11.4	1.03		5.1	3.1	0.2	1.08	11.5	9.1	5.8	3.2	0.91	1.03	1.01	1.00	0.50	0.59	1.18	0.47	0.93				0.00	0.88
20.60	20.55	2.30	0.77	86.6	32.2	11.4	1.02		5.0	3.2	0.2	1.08	11.5	9.1	5.8	3.3	0.91	1.03	1.01	1.00	0.50	0.58	1.17	0.47	0.92				0.00	0.88
20.80	20.69	1.85	0.62	84.0	30.8	10.9	1.13		5.5	3.5	0.2	1.07	12.1	9.5	5.8	3.6	0.90	1.03	1.01	1.00	0.50	0.65	1.30	0.48	1.00				0.00	0.88
20.90	20.82	1.35	0.45	80.0	28.9	10.1	1.34		6.4	3.8	0.2	1.07	13.3	9.9	5.8	4.0	0.90	1.03	1.01	1.00	0.50	0.76	1.53	0.48	1.13				0.00	0.88
21.00	20.94	1.12	0.37	77.2	27.6	9.6	1.50		7.2	4.3	0.3	1.07	14.2	10.5	5.9	4.5	0.90	1.03	1.01	1.00	0.50	0.86	1.71	0.48	1.23				0.00	0.88
21.10	21.08	0.94	0.31	73.1	25.8	8.9	1.78		8.4	4.9	0.3	1.07	15.8	11.3	5.9	5.2	0.90	1.03	1.01	1.00	0.50	1.02	2.00	0.48	1.41				0.00	0.88
21.30	21.20	0.61	0.06	62.6	21.7	7.3	0.37	55.5	10.2	6.8	0.4	1.07	17.9	13.6	5.9	23.4	0.90	1.08	1.01	1.00	0.48	0.12	2.00	0.49	0.54				0.00	0.88
21.40	21.34	0.61	0.06	62.5	21.7	7.3	0.37	55.5	10.2	6.9	0.4	1.06	18.0	13.7	5.9	23.7	0.90	1.08	1.01	1.00	0.48	0.12	2.00	0.49	0.54				0.00	0.88
21.60	21.48	0.80	0.27	68.9	24.1	8.3	2.11		8.0	5.5	0.3	1.06	15.2	12.1	5.9	5.9	0.90	1.03	1.01	1.00	0.50	1.20	2.00	0.49	1.63				0.00	0.88
21.70	21.61	1.10	0.37	76.7	27.4	9.5	1.52		7.4	4.4	0.3	1.06	14.4	10.6	5.9	4.6	0.90	1.03	1.01	1.00	0.50	0.87	2.00	0.49	1.27				0.00	0.88
21.80	21.73	1.58	0.53	81.9	29.8	10.5	1.22		6.1	3.9	0.2	1.06	12.8	9.9	5.8	3.9	0.90	1.03	1.01	1.00	0.51	0.70	1.38	0.50	1.08				0.00	0.88
21.90	21.86	1.61	0.54	82.1	29.9	10.5	1.21		6.1	3.9	0.2	1.06	12.7	9.9	5.8	3.9	0.90	1.03	1.01	1.00	0.51	0.69	1.37	0.50	1.08				0.00	0.88
22.10	21.98	1.44	0.48	80.8	29.3	10.3	1.28		8.5	4.2	0.2	1.06	15.8	10.3	5.8	4.2	0.90	1.03	1.01	1.00	0.51	1.30		0.50	1.13				0.00	0.88
22.20	22.12	1.10	0.37	76.8	27.4	9.5	1.51		9.9	4.8	0.3	1.05	17.6	11.1	5.9	4.9	0.90	1.03	1.01	1.00	0.51	0.86	2.00	0.50	1.28				0.00	0.88
22.30	22.26	0.60	0.06	61.8	21.4	7.2	0.37	55.8	13.4	7.1	0.5	1.05	21.6	13.8	5.9	23.3	0.90	1.08	1.01	1.00	0.49	0.12	2.00	0.51	0.56				0.00	0.88
22.50	22.39	0.45	0.15	54.7	19.1	6.3	0.44	59.4	17.8	9.1	1.5	1.05	26.2	15.6	6.9	24.9	0.89	1.09	1.01	1.00	0.48	0.13	0.28	0.51	0.60	32.750		2.01	0.05	0.84
22.60	22.52	0.35	0.12	49.0	17.4	5.7	0.50	62.8	22.5	11.0	3.1	1.05	30.8	17.3	8.2	25.9	0.89	1.11	1.01	1.00	0.47	0.15	0.32	0.51	0.64	25.881		1.97	0.02	0.81
22.70	22.66	0.57	0.19	60.8	21.1	7.1	2.92		18.8	8.1	0.5	1.04	28.5	15.2	6.1	8.4	0.89	1.04	1.01	1.00	0.51	1.30	2.00	0.51	2.21				0.00	0.81
22.80	22.79	0.58	0.19	61.2	21.2	7.2	2.86		18.5	8.0	0.5	1.04	28.1	15.0	6.1	8.3	0.89	1.04	1.01	1.00	0.51	1.30	2.00	0.52	2.18				0.00	0.81
23.00	22.92	0.59	0.20	61.5	21.3	7.2	2.82		13.7	7.9	0.5	1.04	22.1	14.8	6.0	8.1	0.89	1.04	1.01	1.00	0.51	1.30	2.00	0.52	2.16				0.00	0.81
23.10	23.05	0.59	0.20	61.6	21.3	7.2	2.81		13.7	7.8	0.5	1.04	22.1	14.7	6.0	8.0	0.89	1.04	1.00	1.00	0.51	1.30	2.00	0.52	2.17				0.00	0.81
23.20	23.18	0.59	0.20	61.6	21.4	7.2	2.80		13.7	7.8	0.5	1.04	22.1	14.6	6.0	7.9	0.89	1.04	1.00	1.00	0.51	1.30	2.00	0.52	2.17				0.00	0.81
23.40	23.30	0.71	0.24	65.8	22.9	7.8	2.35		11.7	6.7	0.4	1.03	19.5	13.3	6.0	6.7	0.89	1.03	1.00	1.00	0.51	1.30	2.00	0.53	1.88				0.00	0.81
23.50	23.44	0.96	0.32	73.2	25.8	8.9	1.73		8.8	5.3	0.3	1.03	15.9	11.5	5.9	5.2	0.89	1.03	1.00	1.00	0.51	0.99	1.92	0.53	1.47				0.00	0.81
23.60	23.58	1.15	0.38	77.5	27.7	9.7	1.44		7.5	4.6	0.2	1.03	14.3	10.7	5.9	4.5	0.89	1.03	1.00	1.00	0.51	0.82	1.60	0.53	1.29				0.00	0.81
23.80	23.70	1.20	0.40	78.2	28.0	9.8	1.40		7.3	4.5	0.2	1.03	14.0	10.6	5.9	4.3	0.89	1.03	1.00	1.00	0.51	0.80	1.55	0.53	1.26				0.00	0.81
23.90	23.83	1.28	0.43	79.0	28.4	9.9	1.35		7.1	4.5	0.2	1.03	13.8	10.5	5.8	4.3	0.89	1.03	1.00	1.00	0.51	0.77	1.50	0.54	1.24				0.00	0.81
24.00	23.97	1.66	0.55	82.1	29.9	10.5	1.18		6.3	4.1	0.2	1.03	12.8	10.0	5.8	3.8	0.89	1.03	1.00	1.00	0.52	0.68	1.31	0.54	1.13				0.00	0.81
24.20	24.10	1.91	0.64	83.8	30.7	10.8	1.10		6.0	3.9	0.2	1.02	12.3	9.8	5.8	3.6	0.88	1.03	1.00	1.00	0.52	1.30		0.54	1.08				0.00	0.81
24.30	24.23	1.86	0.62	83.4	30.6	10.8	1.12		6.1	4.0	0.2	1.02	12.4	9.9	5.8	3.7	0.88	1.03	1.00	1.00	0.52	1.30		0.54	1.09				0.00	0.81
24.40	24.36	1.87	0.62	83.5	30.6	10.8	1.11		8.1	4.1	0.2	1.02	14.9	10.0	5.8	3.8	0.88	1.03	1.00	1.00	0.52	1.30		0.54	1.09				0.00	0.81
24.60	24.48	1.95	0.65	84.0	30.8	10.9	1.09		8.0	4.1	0.2	1.02	14.7	10.1	5.8	3.8	0.88	1.03	1.00	1.00	0.52	1.30		0.55	1.08				0.00	0.81
24.70	24.63	1.91	0.64	83.8	30.7	10.8	1.10		8.1	4.2	0.2	1.02	14.8	10.1	5.8	3.8	0.88	1.03	1.00	1.00	0.52	1.30		0.55	1.09				0.00	0.81
24.80	24.76	1.79	0.60	82.9	30.3	10.7	1.14		8.3	4.2	0.2	1.02	15.2	10.2	5.8	3.9	0.88	1.03	1.00	1.00	0.52	1.30		0.55	1.12				0.00	0.81
24.90	24.88	0.85	0.28	70.1	24.5	8.4	1.93		10.1	5.6	0.3	1.01	17.3	11.8	5.9	5.4	0.88	1.03	1.00	1.00	0.52	1.10	2.00	0.55	1.67				0.00	0.81
25.10	25.01	2.08	0.69	84.7	31.2	11.0	1.05		7.8	4.0	0.2	1.01	14.5	9.8	5.8	3.6	0.88	1.03	1.00	1.00	0.52	1.30		0.56	1.07				0.00	0.81
25.20	25.14	2.36	0.79	86.2	32.0	11.3	0.99		7.5	3.8	0.2	1.01	14.0	9.6	5.8	3.4	0.88	1.03	1.00	1.00	0.52	1.30		0.56	1.03				0.00	0.81
25.30	25.27	2.44	0.81	86.6	32.2	11.4	0.97		7.4	3.8	0.2	1.01	13.9	9.6	5.8	3.4	0.88	1.03	1.00	1.00	0.52	1.30		0.56	1.02				0.00	0.81
25.50	25.41	2.39	0.80	86.3	32.0	11.4	0.98		7.5	3.9	0.2	1.01	14.0	9.7	5.8	3.4	0.88	1.03	1.00	1.00	0.52	1.30		0.56	1.03				0.00	0.81
25.60	25.54	2.18	0.73	85.2	31.4	11.1	1.03		7.8	4.1	0.2	1.01	14.4	9.9	5.8	3.6	0.88	1.03	1.00	1.00	0.52	1.30		0.56	1.07				0.00	0.81
25.70	25.67	1.66	0.55	81.9	29.8	10.5	1.18		8.8	4.5	0.2	1.00	15.6	10.4	5.8	4.0	0.87	1.03	1.00	1.00	0.52	1.30		0.57	1.17				0.00	0.81
25.90	25.80	1.45	0.48	80.2	29.0	10.1	1.26		9.4	4.7	0.2	1.00	16.3	10.7	5.8	4.3	0.87	1.03	1.00	1.00	0.52	1.30		0.57	1.24				0.00	0.81
26.00	25.93	1.22	0.41	78.1	28.0	9.8	1.38		10.2	5.1	0.2	1.00	17.2	11.1	5.8	4.6	0.87	1.03	1.00	1.00	0.52	1.30		0.57	1.32				0.00	0.81
26.10	26.06	1.10	0.37	76.1	27.1	9.4	1.49		11.0	5.4	0.3	1.00	18.2	11.5	5.9	4.9	0.87	1.03	1.00	1.00	0.52	1.30		0.57	1.41				0.00	0.81
26.30	26.19	1.01	0.34	74.0	26.2	9.0	1.63		11.9	5.7	0.3	1.00	19.3	11.9	5.9	5.2	0.87	1.03	1.00	1.00	0.52	0.93	1.77	0.58	1.51				0.00	0.81
26.40	26.33	0.95	0.32	72.4	25.5	8.8	1.73		12.7	6.0	0.3	1.00	20.1	12.2	5.9	5.5	0.87	1.03	1.00	1.00	0.52	0.99	1.88	0.58	1.59				0.00	0.81
26.50	26.47	0.95	0.32	72.5	25.5	8.8	1.72		12.7	6.1	0.3	0.99	20.1	12.2	5.9	5.5	0.87	1.03	1.00	1.00	0.52	0.98	1.87	0.58	1.59				0.00	0.81
26.70	26.60	1.04	0.35	74.7	26.5	9.2	1.57		17.5	5.8	0.3	0.99	25.9	11.9	5.9	5.2	0.87	1.03	1.00	1.00	0.53	1.30		0.58	1.48				0.00	0.81
26.80	26.72	1.16	0.39	77.3	27.6	9.6	1.41		16.0	5.5	0.2	0.99	24.0	11.5	5.9	4.9	0.87	1.03	1.00	1.00	0.53	1.30		0.59	1.37				0.00	0.81
26.90	26.86	1.50	0.50	80.4	29.1	10.2	1.24		14.3	5.1	0.2	0.99	21.9	11.1	5.8	4.5	0.87	1.03	1.00	1.00	0.53	1.30		0.59	1.25				0.00	0.81
27.00	26.99	1.84	0.61	82.8	30.3	10.7	1.12		13.1	4.8	0.2	0.99	20.5	10.7	5.8	4.1	0.87	1.03	1.00	1.00	0.53	1.30		0.59	1.17				0.00	0.81
27.20	27.11	2.01	0.67	83.9	30.8	10.9	1.07		12.6	4.6	0.2	0.99	19.9	10.5	5.8	3.9	0.87	1.03	1.00	1.00	0.53	1.30		0.59	1.14				0.00	0.81
27.30	27.24	2.06	0.69	84.2	30.9	10.9	1.06		12.5	4.6	0.2	0.98	19.8	10.4	5.8	3.9	0.87	1.03	1.00	1.00	0.53	1.30		0.59	1.13				0.00	0.81

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Z_b (ft)	Z_m (ft)	$C_c/(1+e_0)$(%)	$C_r/(1+e_0)$(%)	μ_{FC}	μ_{LL}	μ_{PI}	K_θ	D_R (%)	$N_{60L\&B}$	$(N_{60})_{Ic}$	$(N_1)_{60L\&B}$	C_N	$(N_1)_{60cs1\&R}$	$(N_1)_{60cs1c}$	$(N_1)_{60cs1\&B}$	$(N_1)_{60qc1ncs}$	r_d	MSF	K_σ	K_α	$CSR_{7.5}$	$CRR_{7.5}$	FS	τ_{av} (tsf)	p'(tsf)	γ_{max} (%)	G/G_0	ε_v (%)	ΔS_i	ΣS_i (in)
27.50	27.39	1.94	0.65	83.4	30.6	10.8	1.09		8.6	4.5	0.2	0.98	15.1	10.3	5.8	3.8	0.86	1.03	1.00	1.00	0.53	1.30		0.60	1.16				0.00	0.81
27.60	27.52	1.86	0.62	82.9	30.3	10.7	1.11		8.8	4.4	0.2	0.98	15.3	10.2	5.8	3.8	0.86	1.03	1.00	1.00	0.53	1.30		0.60	1.18				0.00	0.81
27.70	27.64	1.16	0.39	77.1	27.6	9.6	1.41		8.1	4.9	0.2	0.98	14.6	10.7	5.9	4.2	0.86	1.03	1.00	1.00	0.53	0.80	1.52	0.60	1.40				0.00	0.81
27.80	27.78	1.13	0.38	76.4	27.2	9.5	1.45		8.4	4.9	0.3	0.98	14.8	10.7	5.9	4.2	0.86	1.03	1.00	1.00	0.53	0.83	1.56	0.60	1.44				0.00	0.81
28.00	27.91	1.09	0.36	75.7	26.9	9.3	1.49		8.6	5.0	0.3	0.98	15.1	10.8	5.9	4.3	0.86	1.03	1.00	1.00	0.53	0.85	1.61	0.61	1.47				0.00	0.81
28.10	28.03	3.65	1.22	91.0	34.6	12.4	0.79		6.7	3.6	0.2	0.97	12.8	9.2	5.7	2.9	0.86	1.03	1.00	1.00	0.53	1.30		0.61	0.96				0.00	0.81
28.20	28.16	3.68	1.23	91.0	34.6	12.4	0.79		6.7	3.7	0.2	0.97	12.8	9.4	5.7	3.0	0.86	1.03	1.00	1.00	0.53	1.30		0.61	0.96				0.00	0.81
28.40	28.29	3.26	1.09	89.5	33.8	12.1	0.84		10.5	4.0	0.2	0.97	17.3	9.7	5.7	3.2	0.86	1.03	1.00	1.00	0.53	1.30		0.61	1.00				0.00	0.81
28.50	28.43	3.04	1.01	88.7	33.3	11.9	0.87		7.2	4.0	0.2	0.97	13.4	9.7	5.7	3.2	0.86	1.03	1.00	1.00	0.53	1.30		0.61	1.02				0.00	0.81
28.60	28.56	3.61	1.20	90.7	34.4	12.3	0.80		10.2	4.0	0.2	0.97	16.8	9.7	5.7	3.2	0.86	1.03	1.00	1.00	0.53	1.30		0.62	0.97				0.00	0.81
28.70	28.68	1.87	0.62	82.8	30.2	10.6	1.10		13.5	4.8	0.2	0.97	20.6	10.6	5.8	4.0	0.86	1.03	1.00	1.00	0.53	1.30		0.62	1.21				0.00	0.81
28.90	28.82	0.72	0.24	65.5	22.8	7.7	2.25		12.9	7.3	0.4	0.97	19.9	13.5	6.0	6.4	0.86	1.03	1.00	1.00	0.53	1.29	2.00	0.62	2.08				0.00	0.81
29.00	28.95	0.59	0.06	60.9	21.1	7.1	0.36	56.0	15.5	8.2	0.5	0.96	22.6	14.3	6.0	24.7	0.85	1.08	0.99	1.00	0.51	0.12	2.00	0.62	0.65				0.00	0.81
29.10	29.07	0.59	0.06	60.7	21.0	7.1	0.36	55.9	15.6	8.2	0.5	0.96	22.5	14.1	6.0	23.1	0.85	1.08	0.99	1.00	0.51	0.12	0.24	0.62	0.65	41.125		2.08	0.02	0.79
29.30	29.21	1.13	0.38	76.1	27.1	9.4	1.45		11.6	5.7	0.3	0.96	18.4	11.5	5.9	4.7	0.85	1.03	1.00	1.00	0.53	0.83	2.00	0.63	1.49				0.00	0.79
29.40	29.36	0.74	0.25	66.0	22.9	7.8	2.19		12.8	7.1	0.4	0.96	19.7	13.1	5.9	6.1	0.85	1.03	1.00	1.00	0.53	1.25	2.00	0.63	2.06				0.00	0.79
29.50	29.48	0.72	0.24	65.4	22.7	7.7	2.24		13.1	7.1	0.4	0.96	20.0	13.2	5.9	6.1	0.85	1.03	0.99	1.00	0.53	1.28	2.00	0.63	2.11				0.00	0.79
29.70	29.60	1.57	0.52	80.5	29.1	10.2	1.20		9.9	5.0	0.2	0.96	16.4	10.8	5.8	4.1	0.85	1.03	1.00	1.00	0.53	1.30		0.63	1.31				0.00	0.79
29.80	29.74	1.65	0.55	81.1	29.4	10.3	1.17		9.7	4.9	0.2	0.96	16.1	10.7	5.8	4.0	0.85	1.03	0.99	1.00	0.53	1.30		0.64	1.29				0.00	0.79
29.90	29.87	1.60	0.53	80.8	29.2	10.3	1.19		9.9	5.0	0.2	0.95	16.3	10.8	5.8	4.0	0.85	1.03	0.99	1.00	0.53	1.30		0.64	1.31				0.00	0.79
30.10	30.00	1.92	0.64	82.9	30.3	10.7	1.09		9.2	4.8	0.2	0.95	15.5	10.4	5.8	3.8	0.85	1.03	0.99	1.00	0.53	1.30		0.64	1.24				0.00	0.79
30.20	30.14	2.12	0.71	84.1	30.9	10.9	1.03		8.8	4.5	0.2	0.95	15.0	10.2	5.8	3.6	0.85	1.03	0.99	1.00	0.53	1.30		0.64	1.20				0.00	0.79
30.30	30.27	2.34	0.78	85.2	31.5	11.1	0.98		8.5	4.5	0.2	0.95	14.6	10.2	5.8	3.5	0.85	1.03	0.99	1.00	0.53	1.30		0.64	1.16				0.00	0.79
30.50	30.39	1.73	0.58	81.5	29.6	10.4	1.15		14.5	5.3	0.2	0.95	21.5	11.0	5.8	4.2	0.85	1.03	0.99	1.00	0.53	1.30		0.65	1.29				0.00	0.79
30.60	30.52	0.89	0.30	70.1	24.6	8.4	1.83		14.8	6.9	0.3	0.95	21.8	12.9	5.9	5.7	0.84	1.03	0.99	1.00	0.53	1.04	2.00	0.65	1.83				0.00	0.79
30.70	30.65	0.45	0.05	54.1	18.9	6.3	0.41	59.2	20.7	10.3	1.7	0.94	26.8	15.7	7.0	24.1	0.84	1.09	0.99	1.00	0.51	0.13	2.00	0.65	0.72				0.00	0.79
30.90	30.78	1.04	0.35	73.9	26.1	9.0	1.56		19.3	6.4	0.3	0.94	26.9	12.3	5.9	5.2	0.84	1.03	0.99	1.00	0.53	1.30	2.00	0.65	1.63				0.00	0.79
31.00	30.92	1.22	0.41	77.1	27.6	9.6	1.37		17.2	6.2	0.2	0.94	24.4	12.0	5.8	4.9	0.84	1.03	0.99	1.00	0.53	1.30	2.00	0.65	1.48				0.00	0.79
31.10	31.05	0.95	0.32	71.6	25.2	8.7	1.71		21.1	7.0	0.3	0.94	28.9	13.0	5.9	5.7	0.84	1.03	0.99	1.00	0.53	1.30	2.00	0.66	1.76				0.00	0.79
31.30	31.18	0.51	0.05	56.8	19.7	6.6	0.39	57.8	15.0	9.6	1.1	0.94	21.0	15.1	6.5	24.2	0.84	1.08	0.99	1.00	0.51	0.13	2.00	0.66	0.71				0.00	0.79
31.40	31.31	0.31	0.10	45.1	16.3	5.3	0.50	63.5	19.8	13.5	4.6	0.94	23.6	17.2	9.0	21.5	0.84	1.12	0.98	1.00	0.50	0.15	2.00	0.66	0.80				0.00	0.79
31.50	31.43	0.82	0.27	38.1	14.5	4.7	0.57	65.6	19.7	16.6	8.2	0.94	21.4	18.4	11.1	20.9	0.84	1.14	0.98	1.00	0.49	0.17	0.34	0.66	0.87	20.637		2.72	0.03	0.75
31.60	31.57	0.82	0.27	38.1	14.5	4.7	0.57	65.4	19.7	16.6	8.2	0.93	21.3	18.3	11.0	20.6	0.84	1.13	0.98	1.00	0.49	0.16	0.33	0.67	0.87	21.124		2.74	0.03	0.72
31.80	31.71	0.92	0.31	42.5	15.6	5.1	0.52	65.1	22.1	14.8	5.8	0.93	25.3	18.0	9.9	22.2	0.84	1.13	0.98	1.00	0.49	0.16	0.33	0.67	0.83	21.579		2.76	0.07	0.66
31.90	31.83	0.38	0.13	49.6	17.5	5.8	0.45	61.4	20.0	11.9	2.9	0.93	24.8	16.5	7.9	22.8	0.84	1.10	0.98	1.00	0.51	0.14	2.00	0.67	0.77				0.00	0.66
32.00	31.97	0.48	0.05	55.3	19.2	6.4	0.40	58.7	20.1	10.2	1.4	0.93	26.2	15.6	6.8	24.9	0.84	1.09	0.98	1.00	0.51	0.13	2.00	0.67	0.73				0.00	0.66
32.20	32.10	0.86	0.29	69.2	24.2	8.3	1.87		15.7	7.4	0.3	0.93	22.5	13.3	5.9	5.9	0.83	1.03	0.99	1.00	0.54	1.07	2.00	0.67	1.94				0.00	0.66
32.30	32.22	0.77	0.26	66.5	23.2	7.9	2.08		17.4	8.0	0.4	0.93	24.4	13.9	6.0	6.4	0.83	1.03	0.99	1.00	0.54	1.19	2.00	0.68	2.12				0.00	0.66
32.40	32.36	0.67	0.22	63.1	21.9	7.4	2.39		14.9	8.5	0.4	0.92	21.5	14.5	6.0	6.8	0.83	1.03	0.99	1.00	0.54	1.30	2.00	0.68	2.38				0.00	0.66
32.60	32.49	0.31	0.10	44.9	16.2	5.3	0.49	63.4	20.3	13.7	4.7	0.92	23.6	17.1	9.0	21.2	0.83	1.12	0.98	1.00	0.50	0.15	2.00	0.68	0.82				0.00	0.66
32.70	32.62	0.80	0.27	32.3	13.2	4.2	0.64	66.9	25.2	20.4	12.3	0.92	25.1	20.6	14.0	22.8	0.83	1.15	0.98	1.00	0.49	0.18	2.00	0.68	0.94				0.00	0.66
32.80	32.75	0.54	0.18	27.1	12.1	3.8	0.70	65.3	24.9	24.0	17.1	0.92	23.5	22.6	17.5	24.2	0.83	1.13	0.98	1.00	0.49	0.16	0.33	0.69	1.00	21.288		2.75	0.03	0.62
33.00	32.89	0.51	0.17	25.0	11.7	3.7	0.73	68.0	27.2	25.7	19.4	0.92	25.3	23.9	19.5	25.0	0.83	1.16	0.98	1.00	0.48	0.19	0.38	0.69	1.03	16.890		2.52	0.06	0.56
33.10	33.02	0.48	0.16	23.0	11.3	3.5	0.75	70.8	29.5	27.3	21.7	0.92	27.2	25.2	21.7	25.6	0.83	1.20	0.97	1.00	0.47	0.22	0.47	0.69	1.05	12.926		2.30	0.03	0.53
33.20	33.14	0.49	0.16	23.4	11.4	3.6	0.75	70.2	29.0	26.8	21.2	0.92	26.7	24.6	21.2	24.9	0.83	1.19	0.97	1.00	0.47	0.21	0.45	0.69	1.05	13.684		2.34	0.03	0.51
33.30	33.28	0.50	0.17	24.3	11.6	3.6	0.73	69.0	28.1	25.8	20.2	0.91	25.8	23.7	20.2	23.6	0.83	1.17	0.97	1.00	0.48	0.20	0.41	0.69	1.04	15.359		2.44	0.03	0.48
33.50	33.40	0.49	0.16	23.6	11.4	3.6	0.74	69.9	28.9	26.3	21.0	0.91	26.4	24.0	21.0	24.0	0.83	1.19	0.97	1.00	0.48	0.21	0.44	0.70	1.05	14.073		2.36	0.06	0.42
33.60	33.54	0.37	0.12	21.8	11.1	3.5	0.77	72.5	31.1	28.0	23.2	0.91	28.4	25.6	23.2	25.6	0.83	1.22	0.97	1.00	0.46	0.25	0.55	0.70	1.08	10.831		2.17	0.03	0.39
33.80	33.68	0.36	0.12	21.3	11.0	3.4	0.77	73.2	31.8	28.6	23.9	0.91	29.0	26.1	23.9	26.1	0.82	1.24	0.97	1.00	0.46	0.27	0.60	0.70	1.08	9.971		2.12	0.05	0.34
33.90	33.80	0.38	0.13	22.8	11.3	3.5	0.75	71.1	30.0	26.8	22.0	0.91	27.2	24.3	22.0	24.3	0.82	1.20	0.97	1.00	0.47	0.23	0.48	0.70	1.07	12.539		2.28	0.03	0.32
34.00	33.93	0.54	0.18	26.5	12.0	3.8	0.70	65.9	25.9	24.3	17.8	0.91	23.7	22.2	17.8	22.9	0.82	1.14	0.97	1.00	0.49	0.17	0.34	0.70	1.03	20.162		2.69	0.03	0.28
34.10	34.06	0.81	0.27	27.6	12.2	3.9	0.69	65.8	24.8	24.1	16.6	0.91	23.2	22.7	17.2	24.5	0.82	1.14	0.97	1.00	0.49	0.17	0.34	0.71	1.02	20.328		2.70	0.03	0.25
34.30	34.19	0.49	0.16	23.3	11.4	3.6	0.74	70.5	29.6	27.9	21.4	0.90	27.0	25.5	21.5	26.6	0.82	1.19	0.97	1.00	0.47	0.22	0.46	0.71	1.07	13.330		2.32	0.06	0.20
34.40	34.33	0.46	0.15	21.2	11.0	3.4	0.77	73.5	32.3	30.2	24.1	0.90	29.3	27.5	24.2	28.3	0.82	1.24	0.97	1.00	0.46	0.28	0.61	0.71	1.10	9.687		2.10	0.03	0.17
34.50	34.46	0.42	0.14	18.5	10.5	3.3	0.81	77.3	35.9	33.1	27.8	0.90	32.5	30.0	27.8	30.2	0.82	1.33	0.96	1.00	0.43	0.44	1.04	0.71	1.14	3.257		0.75	0.01	0.16
34.60	34.58	0.42	0.14	18.5	10.5	3.3	0.81	77.4	36.1	34.2	27.9	0.90	32.8	31.1	28.0	32.6	0.82	1.33	0.96	1.00	0.43	0.45	1.05	0.72	1.14	3.152		0.72	0.01	0.15
34.80	34.72	0.38	0.13	14.8	9.9	3.0	0.86	82.6	41.9	38.9	33.8	0.90	37.8	35.1	33.8	35.7	0.82	1.45	0.95	1.00	0.40	1.30	2.00	0.72	1.19	0.000		0.00	0.00	0.15
34.90	34.85	0.25	0.08	10.1	9.2	2.8	0.93	89.4	50.7	45.1	42.6	0.90	45.5	40.4	42.6	40.4	0.82	1.45	0.94	1.00	0.40	1.30	2.00	0.72	1.26	0.000		0.00	0.00	0.15
35.00	34.99	0.24	0.08	9.3	9.0	2.8	0.94	90.6	52.5	46.2	44.3	0.89	46.9	41.4	44.3	41.4	0.82	1.45	0.93	1.00	0.40	1.30	2.00	0.72	1.27	0.000		0.00	0.00	0.15
35.20	35.11	0.24	0.08	8.9	9.0	2.7	0.95	91.2	44.5	45.7	45.2	0.89	39.8	40.8	45.2	40.8	0.82	1.45	0.93	1.00	0.41	1.30	2.00	0.72	1.28	0.000		0.00	0.00	0.15
35.30	35.24	0.24	0.08	8.6	8.9	2.7	0.95	91.6	45.1	45.0	45.8	0.89	40.2	40.2	45.8	40.2	0.81	1.45	0.93	1.00	0.41	1.30	2.00	0.73	1.29	0.000		0.00	0.00	0.15
35.40	35.37	0.24	0.08	8.6	8.9	2.7	0.95	91.7	45.3	44.8	46.0	0.89	40.3	39.9	46.0	39.9	0.81	1.45	0.93	1.00	0.41	1.30	2.00	0.73	1.29	0.000		0.00	0.00	0.15
35.60	35.51	0.24	0.08	9.9	9.1	2.8	0.93	89.9	43.0	42.8	43.2	0.89	38.3	38.1	43.2	38.1	0.81	1.45	0.93	1.00	0.41	1.30	2.00	0.73	1.28	0.000		0.00	0.00	0.15
35.70	35.65	0.24	0.08	9.5	9.1	2.8	0.93	90.4	43.7	43.9	44.0	0.89	38.8	39.0	44.0	39.0	0.81	1.45	0.93	1.00	0.41	1.30	2.00	0.73	1.28	0.000		0.00	0.00	0.15
35.80	35.78	0.23	0.08	8.4	8.9	2.7	0.95	92.0	45.8	46.6	46.4	0.89	40.6	41.3	46.4	41.3	0.81	1.45	0.93	1.00	0.41	1.30	2.00	0.73	1.30	0.000		0.00	0.00	0.15
36.00	35.91	0.23	0.08	7.4	8.8	2.7	0.97	93.4	47.8	48.4	48.6	0.88	42.3	42.8	48.6	42.8	0.81	1.45	0.93	1.00	0.41	1.30	2.00	0.74	1.32	0.000		0.00	0.00	0.15
36.10	36.05	0.22	0.07	6.7	8.7	2.6	0.98	94.4	49.3	49.8	50.0	0.88	43.5	44.0	50.0	44.0	0.81	1.45	0.93	1.00	0.41	1.30	2.00	0.74	1.34	0.000		0.00	0.00	0.15
36.20	36.18	0.23	0.08	7.9	8.8	2.7	0.96	92.7	46.8	48.2	47.4	0.88	41.3	42.5	47.4	42.5	0.81	1.45	0.92	1.00	0.41	1.30	2.00	0.74	1.32	0.000		0.00	0.00	0.15
36.40	36.30	0.26	0.09	11.7	9.4	2.9	0.90	87.4	48.4	42.7	39.7	0.88	42.7	37.6	39.7	37.6	0.81	1.45	0.93	1.00	0.40	1.30	2.00	0.74	1.27	0.000		0.00	0.00	0.15

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Z_b(ft)	Z_m(ft)	$C_e/(1+e_0)$(%)	$C_r/(1+e_0)$(%)	μ_{FC}	μ_{LL}	μ_{PI}	K_0	D_R (%)	$N_{60L\&B}$	$(N_{60})_{Ic}$	$(N_1)_{60L\&B}$	C_N	$(N_1)_{60cs1\&R}$	$(N_1)_{60cs1c}$	$(N_1)_{60cs1\&B}$	$(N_1)_{60qc1ncs}$	r_d	MSF	K_σ	K_a	$CSR_{7.5}$	$CRR_{7.5}$	FS	τ_{av}(tsf)	p'(tsf)	γ_{max} (%)	G/G_0	ε_v (%)	ΔS_i	ΣS_i (in)
36.50	36.44	0.38	0.13	14.9	9.9	3.0	0.85	82.7	42.6	38.9	33.8	0.88	37.5	34.2	33.8	34.2	0.81	1.45	0.94	1.00	0.40	1.30	2.00	0.75	1.23	0.000		0.00	0.00	0.15
36.60	36.56	0.38	0.13	15.0	9.9	3.1	0.84	82.5	42.5	39.5	33.6	0.88	37.5	34.8	33.7	35.5	0.81	1.45	0.94	1.00	0.40	1.30	2.00	0.75	1.23	0.000		0.00	0.00	0.15
36.80	36.68	0.38	0.13	14.1	9.8	3.0	0.86	83.8	44.1	40.6	35.2	0.88	38.7	35.6	35.2	35.8	0.81	1.45	0.94	1.00	0.40	1.30	2.00	0.75	1.25	0.000		0.00	0.00	0.15
36.90	36.83	0.25	0.08	11.2	9.3	2.9	0.90	88.1	49.6	44.7	40.7	0.87	43.4	39.0	40.7	39.0	0.80	1.45	0.93	1.00	0.41	1.30	2.00	0.75	1.29	0.000		0.00	0.00	0.15
37.00	36.96	0.25	0.08	11.2	9.3	2.8	0.90	88.1	49.7	44.4	40.7	0.87	43.4	38.8	40.7	38.8	0.80	1.45	0.93	1.00	0.41	1.30	2.00	0.75	1.29	0.000		0.00	0.00	0.15
37.20	37.08	0.26	0.09	12.0	9.4	2.9	0.88	86.9	48.1	43.0	39.1	0.87	42.0	37.5	39.1	37.5	0.80	1.45	0.93	1.00	0.40	1.30	2.00	0.76	1.28	0.000		0.00	0.00	0.15
37.30	37.22	0.37	0.12	13.6	9.7	3.0	0.86	84.6	45.2	40.9	36.1	0.87	39.3	35.6	36.1	35.6	0.80	1.45	0.93	1.00	0.40	1.30	2.00	0.76	1.27	0.000		0.00	0.00	0.15
37.40	37.35	0.38	0.13	14.6	9.9	3.0	0.84	83.2	43.6	41.0	34.4	0.87	38.2	35.9	34.5	37.3	0.80	1.45	0.94	1.00	0.40	1.30	2.00	0.76	1.26	0.000		0.00	0.00	0.15
37.50	37.48	0.51	0.17	15.7	10.0	3.1	0.82	86.2	52.2	41.7	32.5	0.87	47.2	37.9	33.8	42.4	0.80	1.45	0.93	1.00	0.40	1.30	2.00	0.76	1.24	0.000		0.00	0.00	0.15
37.70	37.60	0.48	0.16	18.3	10.5	3.2	0.79	87.9	62.7	39.5	28.4	0.87	58.6	37.7	31.1	45.3	0.80	1.45	0.92	1.00	0.41	1.30	2.00	0.76	1.21	0.000		0.00	0.00	0.15
37.80	37.74	0.44	0.15	15.8	10.1	3.1	0.82	90.7	69.5	43.5	32.4	0.86	64.2	40.9	34.9	48.8	0.80	1.45	0.91	1.00	0.41	1.30	2.00	0.77	1.25	0.000		0.00	0.00	0.15
37.90	37.88	0.39	0.13	11.8	9.4	2.9	0.88	93.9	61.2	49.9	39.6	0.86	55.7	45.6	41.4	52.8	0.80	1.45	0.91	1.00	0.41	1.30	2.00	0.77	1.31	0.000		0.00	0.00	0.15
38.10	38.03	0.39	0.13	9.0	9.0	2.7	0.92	94.2	68.7	54.3	45.5	0.86	61.0	48.3	46.5	53.7	0.80	1.45	0.91	1.00	0.41	1.30	2.00	0.77	1.35	0.000		0.00	0.00	0.15
38.20	38.16	0.38	0.13	7.4	8.8	2.7	0.95	94.8	73.2	57.2	48.8	0.86	64.4	50.4	49.4	55.1	0.80	1.45	0.91	1.00	0.41	1.30	2.00	0.77	1.38	0.000		0.00	0.00	0.15
38.30	38.26	0.37	0.12	6.6	8.6	2.6	0.96	95.3	75.8	58.8	50.6	0.86	66.4	51.6	51.1	55.9	0.79	1.45	0.91	1.00	0.41	1.30	2.00	0.78	1.40	0.000		0.00	0.00	0.15
38.50	38.39	0.32	0.11	6.5	8.6	2.6	0.96	95.3	76.4	59.0	50.9	0.86	66.6	51.6	51.3	55.7	0.79	1.45	0.91	1.00	0.41	1.30	2.00	0.78	1.40	0.000		0.00	0.00	0.15
38.60	38.52	0.32	0.11	6.9	8.7	2.6	0.95	94.5	75.2	57.7	50.1	0.86	65.3	50.1	50.3	53.5	0.79	1.45	0.91	1.00	0.41	1.30	2.00	0.78	1.40	0.000		0.00	0.00	0.15
38.70	38.66	0.31	0.10	5.1	8.4	2.5	0.98	96.8	64.7	59.8	53.8	0.85	55.4	51.2	53.8	51.7	0.79	1.45	0.90	1.00	0.41	1.30	2.00	0.78	1.43	0.000		0.00	0.00	0.15
38.80	38.79	0.20	0.07	3.0	8.1	2.5	1.01	99.7	70.6	63.3	58.6	0.85	60.1	53.9	58.6	53.9	0.79	1.45	0.90	1.00	0.41	1.30	2.00	0.79	1.47	0.000		0.00	0.00	0.15
39.00	38.92	0.20	0.07	0.8	7.9	2.4	1.05	100.0	64.2	66.7	64.0	0.85	54.6	56.8	64.0	56.8	0.79	1.45	0.90	1.00	0.41	1.30	2.00	0.79	1.51	0.000		0.00	0.00	0.15
39.10	39.06	0.20	0.07	0.2	7.8	2.3	1.06	100.0	66.1	66.8	65.7	0.85	56.1	56.7	65.7	56.7	0.79	1.45	0.90	1.00	0.41	1.30	2.00	0.79	1.53	0.000		0.00	0.00	0.15
39.30	39.19	0.20	0.07	3.1	8.2	2.5	1.01	99.6	58.8	59.5	58.4	0.85	49.8	50.4	58.4	50.4	0.79	1.45	0.90	1.00	0.41	1.30	2.00	0.79	1.48	0.000		0.00	0.00	0.15
39.40	39.32	0.23	0.08	8.5	8.9	2.7	0.92	92.3	47.3	48.1	46.7	0.85	40.1	40.7	46.7	40.7	0.79	1.45	0.90	1.00	0.41	1.30	2.00	0.79	1.40	0.000		0.00	0.00	0.15
39.50	39.45	0.30	0.10	16.6	10.2	3.1	0.80	80.4	41.1	35.7	31.1	0.85	34.7	30.2	31.1	30.2	0.79	1.42	0.93	1.00	0.41	0.80	1.98	0.80	1.28	0.038		0.01	0.00	0.15
39.60	39.58	0.87	0.29	29.8	12.7	4.0	0.63	62.2	24.3	23.6	14.5	0.84	21.2	20.6	15.0	22.1	0.79	1.11	0.96	1.00	0.51	0.15	0.29	0.80	1.11	26.971		3.02	0.04	0.12
39.80	39.71	0.33	0.11	45.8	16.5	5.4	0.45	62.7	21.7	14.8	4.3	0.84	23.3	17.0	8.7	21.3	0.79	1.11	0.96	1.00	0.50	0.15	2.00	0.80	0.95				0.00	0.12
39.90	39.85	0.57	0.06	58.4	20.3	6.8	0.34	56.6	16.0	10.4	0.9	0.84	20.5	14.9	6.3	24.6	0.78	1.08	0.96	1.00	0.52	0.13	2.00	0.80	0.84				0.00	0.12
40.10	39.98	0.84	0.28	67.3	23.5	8.0	1.86		14.4	8.6	0.3	0.84	19.5	13.7	6.0	5.6	0.78	1.03	0.98	1.00	0.53	1.06	2.00	0.80	2.35				0.00	0.12
40.20	40.11	0.99	0.33	71.3	25.0	8.6	1.58		9.9	7.5	0.3	0.84	15.0	12.6	5.9	4.8	0.78	1.03	0.98	1.00	0.53	0.90	2.00	0.80	2.08				0.00	0.12
40.30	40.24	1.02	0.34	72.3	25.5	8.8	1.52		9.6	7.2	0.3	0.84	14.7	12.2	5.9	4.6	0.78	1.03	0.98	1.00	0.53	0.87	1.64	0.81	2.02				0.00	0.12
40.40	40.37	0.91	0.30	69.5	24.3	8.3	1.70		10.7	7.8	0.3	0.84	15.7	12.8	5.9	5.0	0.78	1.03	0.98	1.00	0.53	0.97	1.84	0.81	2.21				0.00	0.12
40.60	40.50	0.82	0.27	67.0	23.3	8.0	1.87		11.7	8.3	0.4	0.84	16.7	13.3	5.9	5.3	0.78	1.03	0.98	1.00	0.53	1.07	2.00	0.81	2.39				0.00	0.12
40.70	40.64	0.74	0.25	64.5	22.4	7.6	2.08		12.9	8.8	0.4	0.84	17.9	13.8	5.9	5.7	0.78	1.03	0.98	1.00	0.53	1.19	2.00	0.81	2.60				0.00	0.12
40.80	40.76	0.83	0.28	67.4	23.5	8.0	1.85		11.6	8.2	0.3	0.83	16.6	13.2	5.9	5.3	0.78	1.03	0.98	1.00	0.53	1.06	2.00	0.81	2.38				0.00	0.12
40.90	40.88	1.05	0.35	72.7	25.6	8.8	1.49		9.6	7.2	0.3	0.83	14.6	12.2	5.9	4.5	0.78	1.03	0.98	1.00	0.53	0.85	1.61	0.81	2.02				0.00	0.12
41.10	41.03	1.27	0.42	76.3	27.2	9.5	1.28		8.4	6.5	0.2	0.83	13.4	11.5	5.9	4.0	0.78	1.03	0.98	1.00	0.53	0.73	1.39	0.82	1.82				0.00	0.12
41.20	41.16	1.58	0.53	78.9	28.4	9.9	1.16		9.6	6.1	0.2	0.83	14.6	11.1	5.8	3.7	0.78	1.03	0.98	1.00	0.53	0.66	1.25	0.82	1.69				0.00	0.12
41.30	41.28	1.57	0.52	78.9	28.3	9.9	1.16		9.6	6.1	0.2	0.83	14.6	11.1	5.8	3.7	0.78	1.03	0.98	1.00	0.53	0.66	1.25	0.82	1.69				0.00	0.12
41.50	41.41	1.29	0.43	76.5	27.3	9.5	1.27		8.4	6.5	0.2	0.83	13.4	11.5	5.9	4.0	0.77	1.03	0.98	1.00	0.53	0.73	1.38	0.82	1.81				0.00	0.12
41.60	41.55	1.24	0.41	75.9	27.0	9.4	1.30		10.7	6.7	0.3	0.83	15.7	11.7	5.9	4.1	0.77	1.03	0.98	1.00	0.53	0.74	1.41	0.82	1.85				0.00	0.12
41.70	41.67	1.29	0.43	76.4	27.2	9.5	1.28		10.6	6.7	0.2	0.83	15.5	11.7	5.9	4.1	0.77	1.03	0.98	1.00	0.53	0.73	1.38	0.82	1.83				0.00	0.12
41.90	41.81	1.39	0.46	77.3	27.6	9.6	1.23		10.3	6.5	0.2	0.83	15.2	11.5	5.9	3.9	0.77	1.03	0.98	1.00	0.53	0.70	1.33	0.83	1.78				0.00	0.12
42.00	41.94	1.46	0.49	77.8	27.9	9.7	1.20		10.1	6.4	0.2	0.83	15.0	11.4	5.9	3.9	0.77	1.03	0.98	1.00	0.53	0.69	1.30	0.83	1.76				0.00	0.12
42.10	42.06	1.44	0.48	77.6	27.8	9.7	1.21		10.2	6.5	0.2	0.83	15.1	11.4	5.9	3.9	0.77	1.03	0.98	1.00	0.53	0.69	1.31	0.83	1.77				0.00	0.12
42.30	42.20	1.28	0.43	76.1	27.1	9.4	1.28		10.7	6.9	0.3	0.82	15.6	11.8	5.9	4.1	0.77	1.03	0.98	1.00	0.53	0.73	1.39	0.83	1.85				0.00	0.12
42.40	42.33	1.01	0.34	71.4	25.1	8.6	1.55		12.7	7.9	0.3	0.82	17.6	12.8	5.9	4.8	0.77	1.03	0.98	1.00	0.53	0.89	1.68	0.83	2.14				0.00	0.12
42.50	42.46	0.85	0.28	67.5	23.5	8.0	1.81		11.8	8.7	0.3	0.82	16.6	13.5	5.9	5.4	0.77	1.03	0.98	1.00	0.53	1.04	1.97	0.83	2.42				0.00	0.12
42.70	42.59	0.88	0.29	68.4	23.9	8.2	1.75		14.3	8.6	0.3	0.82	19.1	13.4	5.9	5.3	0.77	1.03	0.98	1.00	0.53	1.00	1.90	0.84	2.35				0.00	0.12
42.80	42.73	0.80	0.27	65.9	22.9	7.8	1.93		12.5	9.1	0.4	0.82	17.3	14.0	6.0	5.7	0.77	1.03	0.98	1.00	0.53	1.11	2.00	0.84	2.55				0.00	0.12
42.90	42.86	0.80	0.27	65.9	22.9	7.8	1.93		12.5	9.1	0.4	0.82	17.3	14.0	6.0	5.6	0.77	1.03	0.98	1.00	0.53	1.10	2.00	0.84	2.55				0.00	0.12
43.10	42.99	0.84	0.28	67.0	23.3	8.0	1.85		15.1	9.1	0.4	0.82	19.8	13.9	6.0	5.6	0.76	1.03	0.98	1.00	0.53	1.06	2.00	0.84	2.47				0.00	0.12
43.20	43.12	0.70	0.23	62.5	21.7	7.3	2.21		17.8	10.4	0.4	0.82	22.5	15.2	6.0	6.4	0.76	1.03	0.98	1.00	0.53	1.26	2.00	0.84	2.86				0.00	0.12
43.30	43.25	0.57	0.19	57.6	20.0	6.7	2.68		17.2	11.9	0.5	0.82	21.8	16.6	6.1	7.4	0.76	1.04	0.97	1.00	0.53	1.30	2.00	0.84	3.37				0.00	0.12
43.40	43.38	0.55	0.18	56.9	19.8	6.6	2.75		17.6	12.2	0.5	0.82	22.2	16.9	6.1	7.6	0.76	1.04	0.97	1.00	0.53	1.30	2.00	0.85	3.46				0.00	0.12
43.60	43.51	0.55	0.18	56.7	19.7	6.6	2.78		17.8	12.3	0.5	0.81	22.4	17.1	6.1	7.7	0.76	1.04	0.97	1.00	0.53	1.30	2.00	0.85	3.49				0.00	0.12
43.70	43.64	0.57	0.19	57.8	20.0	6.7	2.66		17.1	12.0	0.5	0.81	21.7	16.7	6.1	7.5	0.76	1.04	0.97	1.00	0.53	1.30	2.00	0.85	3.37				0.00	0.12
43.90	43.78	0.62	0.21	59.7	20.7	7.0	2.45		16.0	11.4	0.5	0.81	20.6	16.1	6.1	7.0	0.76	1.04	0.97	1.00	0.53	1.30	2.00	0.85	3.16				0.00	0.12
44.00	43.91	0.65	0.22	60.8	21.1	7.1	2.35		19.2	11.1	0.4	0.81	23.7	15.8	6.0	6.8	0.76	1.03	0.97	1.00	0.53	1.30	2.00	0.85	3.05				0.00	0.12
44.10	44.03	0.69	0.23	62.1	21.5	7.3	2.23		18.3	10.7	0.4	0.81	22.8	15.4	6.0	6.6	0.76	1.03	0.97	1.00	0.53	1.27	2.00	0.85	2.93				0.00	0.12
44.20	44.17	0.79	0.26	65.2	22.6	7.7	1.96		16.3	9.9	0.4	0.81	20.9	14.6	6.0	6.0	0.76	1.03	0.97	1.00	0.52	1.12	2.00	0.86	2.66				0.00	0.12
44.40	44.32	0.87	0.29	67.4	23.5	8.0	1.79		15.1	9.4	0.3	0.81	19.6	14.1	6.0	5.6	0.76	1.03	0.98	1.00	0.52	1.02	1.95	0.86	2.48				0.00	0.12
44.50	44.45	0.97	0.32	70.0	24.5	8.4	1.62		13.8	8.8	0.3	0.81	18.3	13.6	5.9	5.2	0.76	1.03	0.98	1.00	0.52	0.92	1.76	0.86	2.29				0.00	0.12
44.60	44.57	1.08	0.36	72.7	25.6	8.8	1.45		12.5	8.2	0.3	0.81	17.1	12.9	5.9	4.8	0.75	1.03	0.98	1.00	0.52	1.30		0.86	2.12				0.00	0.12
44.80	44.70	1.21	0.40	74.9	26.6	9.2	1.32		15.4	7.7	0.3	0.80	19.9	12.5	5.9	4.5	0.75	1.03	0.98	1.00	0.52	1.30		0.86	1.98				0.00	0.12
44.90	44.83	1.47	0.49	77.2	27.6	9.6	1.21		14.3	7.3	0.2	0.80	18.8	12.0	5.8	4.1	0.75	1.03	0.98	1.00	0.52	1.30		0.86	1.86				0.00	0.12
45.00	44.96	1.76	0.59	79.4	28.6	10.0	1.11		13.2	6.9	0.2	0.80	17.8	11.6	5.8	3.8	0.75	1.03	0.98	1.00	0.52	1.30		0.87	1.76				0.00	0.12
45.20	45.10	1.76	0.59	79.4	28.6	10.0	1.10		9.9	6.8	0.2	0.80	14.6	11.5	5.8	3.8	0.75	1.03	0.98	1.00	0.52	1.30		0.87	1.76				0.00	0.12
45.30	45.25	1.62	0.54	78.5	28.2	9.8	1.14		10.3	6.9	0.2	0.80	14.9	11.6	5.8	3.9	0.75	1.03	0.98	1.00	0.52	1.30		0.87	1.81				0.00	0.12
45.40	45.37	1.46	0.49	77.3	27.6	9.6	1.20		10.7	7.1	0.2	0.80	15.3	11.8	5.9	4.0	0.75	1.03	0.98	1.00	0.52	1.30		0.87	1.87				0.00	0.12

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Z_b (ft)	Z_m (ft)	$C_c/(1+e_0)$(%)	$C_r/(1+e_0)$(%)	μ_{FC}	μ_{LL}	μ_{PI}	K_0	D_R (%)	$N_{60L\&B}$	$(N_{60})_{Ic}$	$(N_1)_{60L\&B}$	C_N	$(N_1)_{60csL\&R}$	$(N_1)_{60csIc}$	$(N_1)_{60csI\&B}$	$(N_1)_{60qcIncs}$	r_d	MSF	K_σ	K_a	$CSR_{7.5}$	$CRR_{7.5}$	FS	τ_{av} (tsf)	p'(tsf)	γ_{max} (%)	G/G_0	ε_v (%)	ΔS_i	ΣS_i (in)
45.50	45.48	1.28	0.43	75.8	26.9	9.4	1.27		11.3	7.3	0.3	0.80	15.9	12.0	5.9	4.1	0.75	1.03	0.98	1.00	0.52	0.73	1.39	0.87	1.96				0.00	0.12
45.70	45.61	1.26	0.42	75.6	26.9	9.3	1.28		11.4	7.3	0.3	0.80	15.9	12.0	5.9	4.1	0.75	1.03	0.98	1.00	0.52	0.73	1.40	0.87	1.97				0.00	0.12
45.80	45.75	1.28	0.43	75.7	26.9	9.3	1.27		11.4	7.3	0.3	0.80	15.9	12.0	5.9	4.1	0.75	1.03	0.97	1.00	0.52	0.73	1.40	0.87	1.97				0.00	0.12
45.90	45.88	1.25	0.42	75.4	26.8	9.3	1.29		11.5	7.4	0.3	0.80	16.0	12.1	5.9	4.2	0.75	1.03	0.97	1.00	0.52	0.73	1.41	0.88	1.98				0.00	0.12
46.10	46.00	1.10	0.37	73.3	25.9	8.9	1.40		10.0	7.7	0.3	0.80	14.5	12.4	5.9	4.4	0.75	1.03	0.97	1.00	0.52	0.80	1.54	0.88	2.12				0.00	0.12
46.20	46.14	1.07	0.36	72.5	25.5	8.8	1.44		12.8	8.0	0.3	0.79	17.2	12.6	5.9	4.5	0.74	1.03	0.97	1.00	0.52	0.83	1.58	0.88	2.17				0.00	0.12
46.30	46.27	1.05	0.35	71.7	25.2	8.7	1.49		17.6	8.7	0.3	0.79	21.8	13.3	5.9	4.9	0.74	1.03	0.97	1.00	0.52	1.30		0.88	2.22				0.00	0.12
46.50	46.41	0.94	0.31	68.8	24.0	8.2	1.67		29.4	9.8	0.3	0.79	33.0	14.4	5.9	5.6	0.74	1.03	0.97	1.00	0.52	1.30		0.88	2.44				0.00	0.12
46.60	46.54	0.59	0.20	57.8	20.1	6.7	2.59		22.1	12.8	0.5	0.79	26.0	17.2	6.1	7.6	0.74	1.04	0.97	1.00	0.52	1.30	2.00	0.88	3.48				0.00	0.12
46.70	46.66	0.42	0.04	50.7	17.8	5.9	0.39	61.1	23.2	14.5	2.6	0.79	25.5	17.7	7.9	28.6	0.74	1.10	0.94	1.00	0.50	0.14	2.00	0.89	1.00				0.00	0.12
46.90	46.80	0.45	0.05	52.4	18.3	6.1	0.37	60.1	21.8	13.8	2.2	0.79	24.5	17.3	7.5	28.8	0.74	1.10	0.94	1.00	0.51	0.14	2.00	0.89	0.99				0.00	0.12
47.00	46.93	0.50	0.17	54.1	18.9	6.3	3.00		20.4	13.8	0.7	0.79	24.3	18.1	6.2	8.2	0.74	1.04	0.97	1.00	0.52	1.30	2.00	0.89	3.96				0.00	0.12
47.10	47.07	0.45	0.04	52.1	18.3	6.0	0.38	60.3	22.0	14.0	2.2	0.79	24.7	17.4	7.6	29.3	0.74	1.10	0.94	1.00	0.50	0.14	2.00	0.89	0.99				0.00	0.12
47.30	47.20	0.44	0.04	51.5	18.1	6.0	0.38	60.7	22.5	14.4	2.4	0.79	25.2	17.8	7.8	30.5	0.74	1.10	0.94	1.00	0.50	0.14	0.28	0.89	1.00	30.001		1.91	0.05	0.07
47.40	47.32	0.41	0.04	49.8	17.6	5.8	0.39	61.8	24.1	15.2	2.9	0.79	26.4	18.4	8.2	30.8	0.74	1.11	0.94	1.00	0.50	0.14	0.29	0.89	1.02	27.768		1.89	0.02	0.05
47.50	47.45	0.42	0.04	50.6	17.8	5.9	0.39	61.3	23.4	14.9	2.6	0.79	25.9	18.2	8.0	31.0	0.74	1.10	0.94	1.00	0.50	0.14	2.00	0.89	1.01				0.00	0.05
47.70	47.59	0.49	0.16	53.7	18.8	6.2	3.03		20.8	14.2	0.7	0.78	24.6	18.4	6.3	8.3	0.74	1.04	0.97	1.00	0.52	1.30	2.00	0.90	4.04				0.00	0.05
47.80	47.72	0.54	0.18	55.8	19.4	6.5	2.78		19.3	13.4	0.5	0.78	23.1	17.6	6.1	7.8	0.73	1.04	0.97	1.00	0.52	1.30	2.00	0.90	3.78				0.00	0.05
47.90	47.84	0.58	0.19	57.7	20.0	6.7	2.58		18.0	12.8	0.5	0.78	21.9	17.0	6.1	7.3	0.73	1.04	0.97	1.00	0.52	1.30	2.00	0.90	3.55				0.00	0.05
48.10	47.98	0.63	0.21	59.4	20.6	6.9	2.41		21.1	12.3	0.5	0.78	24.8	16.6	6.1	7.0	0.73	1.04	0.97	1.00	0.52	1.30	2.00	0.90	3.36				0.00	0.05
48.20	48.11	0.67	0.22	60.7	21.0	7.1	2.28		20.2	12.1	0.4	0.78	23.9	16.3	6.1	6.9	0.73	1.03	0.97	1.00	0.52	1.30	2.00	0.90	3.22				0.00	0.05
48.30	48.24	0.66	0.22	60.5	21.0	7.1	2.30		20.4	12.2	0.4	0.78	24.1	16.4	6.1	6.9	0.73	1.03	0.97	1.00	0.52	1.30	2.00	0.90	3.25				0.00	0.05
48.40	48.37	0.64	0.21	59.6	20.6	6.9	2.38		21.1	12.6	0.5	0.78	24.7	16.7	6.1	7.1	0.73	1.04	0.97	1.00	0.52	1.30	2.00	0.91	3.35				0.00	0.05
48.60	48.50	0.59	0.20	57.8	20.0	6.7	2.56		22.6	13.3	0.5	0.78	26.1	17.4	6.1	7.5	0.73	1.04	0.97	1.00	0.52	1.30	2.00	0.91	3.56				0.00	0.05
48.70	48.64	0.58	0.19	57.1	19.8	6.6	2.62		23.2	13.6	0.5	0.78	26.6	17.7	6.1	7.7	0.73	1.04	0.97	1.00	0.52	1.30	2.00	0.91	3.65				0.00	0.05
48.80	48.77	0.59	0.20	57.5	19.9	6.7	2.58		22.9	13.6	0.5	0.78	26.4	17.6	6.1	7.7	0.73	1.04	0.97	1.00	0.52	1.30	2.00	0.91	3.61				0.00	0.05
49.00	48.90	0.63	0.21	59.0	20.4	6.9	2.43		29.0	13.2	0.5	0.77	31.9	17.2	6.1	7.4	0.73	1.04	0.97	1.00	0.52	1.30	2.00	0.91	3.44				0.00	0.05
49.10	49.02	0.66	0.22	60.2	20.9	7.0	2.31		27.7	12.8	0.5	0.77	30.7	16.9	6.1	7.2	0.73	1.03	0.97	1.00	0.52	1.30	2.00	0.91	3.31				0.00	0.05
49.20	49.17	0.64	0.21	59.1	20.5	6.9	2.41		28.9	13.4	0.5	0.77	31.8	17.4	6.1	7.5	0.73	1.04	0.97	1.00	0.52	1.30	2.00	0.92	3.44				0.00	0.05
49.40	49.30	0.46	0.15	51.5	18.1	6.0	3.26		38.5	16.7	1.1	0.77	40.7	20.4	6.7	9.4	0.73	1.04	0.96	1.00	0.52	1.30	2.00	0.92	4.46				0.00	0.05
49.50	49.42	0.38	0.13	46.7	16.7	5.5	3.95		34.8	19.5	2.3	0.77	37.2	23.0	7.9	11.1	0.72	1.04	0.96	1.00	0.52	1.30	2.00	0.92	5.29				0.00	0.05
49.60	49.55	0.34	0.11	44.1	16.0	5.2	4.36		38.3	21.0	3.2	0.77	40.4	24.4	8.7	12.0	0.72	1.04	0.96	1.00	0.52	1.30	2.00	0.92	5.79				0.00	0.05
49.80	49.68	0.32	0.11	44.1	16.0	5.2	0.44	65.7	30.8	18.8	5.0	0.77	30.9	20.5	10.1	32.2	0.72	1.14	0.93	1.00	0.49	0.17	2.00	0.92	1.12				0.00	0.05
49.90	49.81	0.39	0.04	48.4	17.2	5.7	0.40	62.1	26.1	15.9	3.3	0.77	26.8	18.0	8.4	27.1	0.72	1.11	0.94	1.00	0.50	0.15	0.29	0.92	1.08	27.157		2.02	0.02	0.02
50.00	49.94	0.45	0.04	51.9	18.2	6.0	0.37	60.1	28.6	14.4	2.3	0.77	29.7	17.3	7.6	28.1	0.72	1.10	0.94	1.00	0.50	0.14	0.27	0.92	1.04	31.258		2.00	0.02	0.00
50.10	50.06	0.37	0.04	47.6	16.9	5.6	0.41	62.2	27.0	16.1	3.6	0.77	27.0	17.7	8.6	24.8	0.72	1.11	0.93	1.00	0.50	0.15		0.93	1.09	0.000		0.00	0.00	0.00

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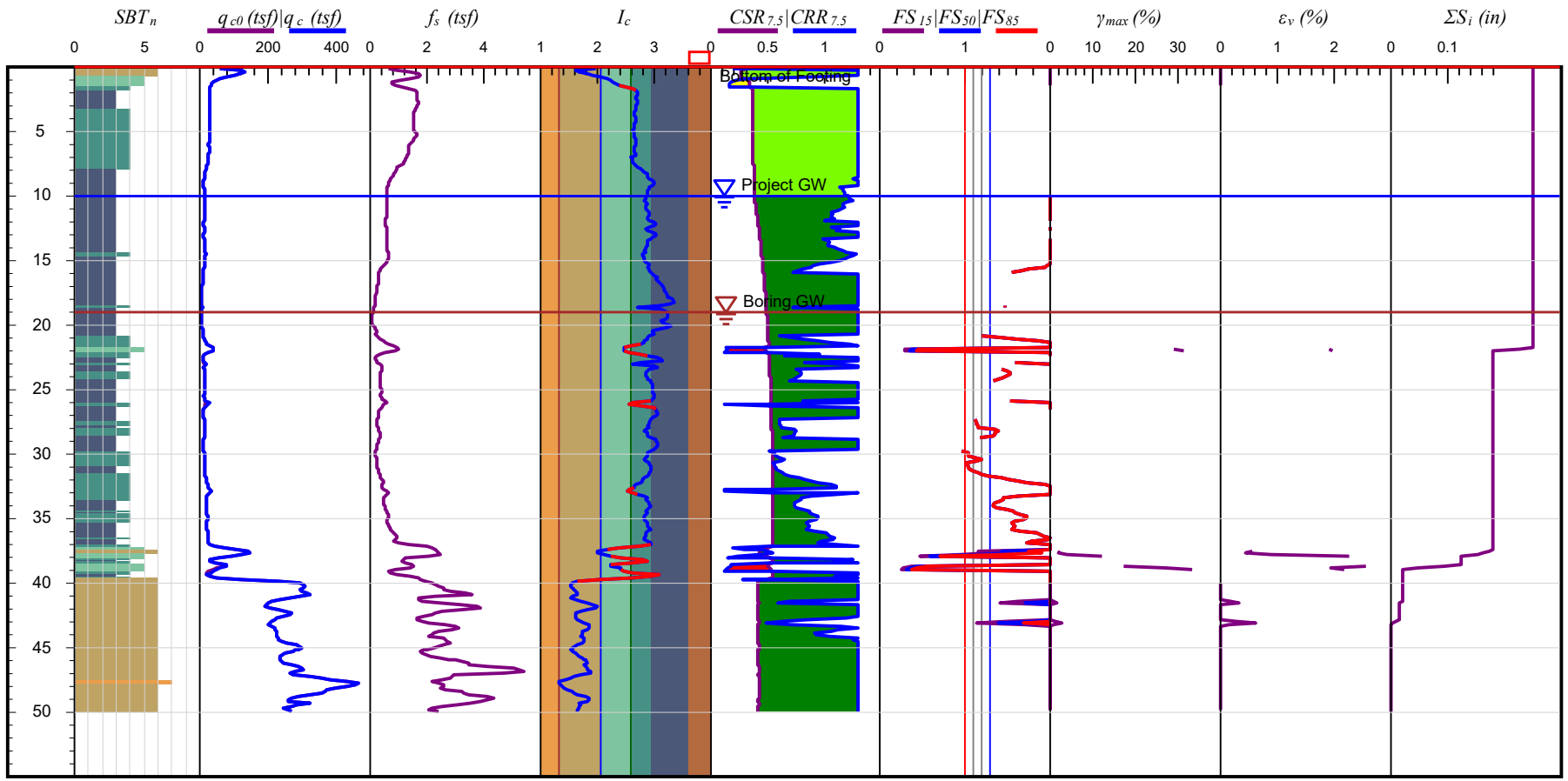

- Sensitive fine grained
- Organic soils - peats
- Clay to silty clay
- Silty clay to clayey silt
- Sandy silt to silty sand
- Silty sand to clean sand
- Dense sand to gravelly sand
- Clayey sand to very stiff sand
- Very stiff fine grained *

* Overconsolidated or cemented

Silt Correction:
$K=(1\text{-}FC)^{0.75}$

Earthquake & Groundwater Information:
Magnitude = 6.51
Max. Acceleration = 0.648 g
Project GW = 10 ft
Maximum Settlement = 0.25 in
Settl. at Bottom of Footing = 0.25 in

Liquefaction: Boulanger & Idriss (2010-16)
Settl.: [dry] Pradel (1998); [sat] Idriss & Boulanger (2008)
Lateral spreading: Idriss & Boulanger (2008)
M correction: [Sand; Clay] Boulanger & Idriss(2004)
σv correction: Idriss & Boulanger (2008)
Stress reduction: Idriss & Boulanger (2008)

GORIAN & ASSOCIATES, INC

Seismic Settlement Potential - CPT Data

Project:	Canoga Park High School Modernization				
Location:	6850 Topanga Canyon Blvd.				
Project No.:	2880-83-3-100	CPT No.:	CPT-20	Figure:	4

X:\2880-0-0-LA Unified Sch Dist-Master File\2880-83 Canoga Park High Sch\2880-83-3 Comprensive Modernization\Seismic Settlement\GeoSuite_2880-83-3-100_CPT-20.csv

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Z_b (ft)	Z_m (ft)	q_c (tsf)	f_s (tsf)	u_2 (tsf)	q_t (tsf)	R_f	SBT	γ (pcf)	σ_{v0} (tsf)	σ_{v0}' (tsf)	Q_t	Q_m	F_R	SBT_n	I_c	q_{c1N}	K_c	$Q_{m,cs}$	$(SBT)_{Ic}$	B_q	$(SBT)_{Bq}$	F_C (%)	c	R	V_s (ft/s)	G_0 (tsf)	E' (tsf)	M (tsf)	σ_p' (tsf)	OCR	S_t	S_u (tsf)	S_u/σ_{v0}'	φ (°)	c' (tsf)
0.10	0.07	56.6	0.62	0.00	56.6	1.13	7	120	0.00	0.00	214.1	91.0	1.09	6	1.97	91.0	1.25	127.6	6	0.00	1	12.06	0.38	273.4	576.9	622	491	981	0.02	4.6				39.1	0.00
0.30	0.21	120.8	0.94	0.01	120.8	0.78	9	125	0.01	0.01	456.7	194.1	0.78	6	1.62	194.1	1.00	194.1	6	0.00	1	4.73	0.36	273.4	677.5	892	677	1,354	0.10	8.1				42.8	0.00
0.40	0.34	134.5	1.40	0.01	134.5	1.04	8	128	0.02	0.02	508.5	216.1	1.04	6	1.68	216.2	1.02	216.2	6	0.00	1	5.73	0.36	273.4	741.0	1,095	810	1,619	0.18	8.8				43.3	0.00
0.50	0.47	119.2	1.73	0.00	119.2	1.46	8	130	0.03	0.03	450.4	191.4	1.46	6	1.82	191.5	1.12	197.9	6	0.00	1	8.63	0.38	273.4	764.1	1,176	861	1,722	0.24	8.1				42.7	0.00
0.70	0.60	103.0	1.78	-0.01	103.0	1.74	7	129	0.04	0.04	389.2	165.4	1.73	6	1.92	165.5	1.20	200.5	6	0.00	1	10.93	0.39	273.5	756.0	1,150	843	1,686	0.28	7.3				42.0	0.01
0.80	0.73	78.0	1.68	-0.01	78.0	2.16	7	128	0.05	0.05	294.8	125.3	2.16	5	2.07	125.4	1.40	184.3	5	0.00	1	15.01	0.41	273.5	724.2	1,046	773	1,547	0.27	5.9				40.7	0.01
0.90	0.86	59.9	1.41	-0.02	59.9	2.35	6	126	0.05	0.05	226.2	96.2	2.35	5	2.18	96.2	1.60	159.0	5	0.00	1	18.24	0.43	273.6	677.7	901	677	1,354	0.26	4.8				39.4	0.01
1.10	1.00	46.7	1.03	-0.02	46.7	2.20	6	123	0.06	0.06	176.2	74.9	2.21	5	2.23	75.0	1.74	136.2	5	0.00	1	20.17	0.45	273.6	620.0	737	567	653	0.25	3.9				38.2	0.00
1.20	1.14	38.5	0.76	-0.02	38.5	1.98	6	121	0.07	0.07	145.1	61.7	1.98	5	2.26	61.8	1.82	121.2	5	0.00	1	21.17	0.47	273.7	572.9	615	484	537	0.24	3.3				37.3	0.00
1.30	1.27	34.8	0.79	-0.02	34.8	2.28	6	121	0.08	0.08	131.1	55.7	2.29	5	2.34	55.9	2.06	116.6	5	0.00	1	23.92	0.47	273.7	570.8	611	480	486	0.24	3.0				36.8	0.00
1.50	1.40	33.7	0.90	-0.02	33.7	2.68	6	122	0.09	0.09	127.2	54.1	2.69	5	2.39	54.2	2.28	116.4	5	0.00	1	26.20	0.48	273.7	583.1	642	501	471	0.25	2.9				36.7	0.01
1.60	1.52	31.8	1.12	-0.02	31.7	3.52	5	123	0.09	0.09	119.7	50.9	3.53	4	2.50	51.0	2.73	114.8	5	0.00	1	30.52	0.48	273.7	603.1	695	536	443	0.26	2.7				36.4	0.01
1.70	1.64	29.4	1.38	-0.03	29.4	4.70	4	124	0.10	0.10	110.6	47.0	4.71	4	2.61	47.2	0.00	47.2	4	0.00	1	35.83	0.49	273.8	623.0	750		410	9.75	15.7	1.5	2.09	3.36	36.0	2.09
1.80	1.78	27.9	1.57	-0.08	27.8	5.63	3	125	0.11	0.11	104.9	44.6	5.65	4	2.68	44.8	0.00	44.8	4	0.00	1	39.57	0.50	273.8	635.6	786		388	9.25	14.9	1.3	1.98	3.18	35.7	1.98
2.00	1.91	27.6	1.66	-0.12	27.5	6.01	3	126	0.12	0.12	103.7	44.1	6.05	3	2.71	44.3	0.00	44.3	4	0.00	1	40.88	0.50	273.8	641.9	804		384	9.14	14.7	1.2	1.96	3.15	35.7	1.96
2.10	2.04	27.6	1.63	-0.12	27.6	5.91	3	125	0.13	0.13	103.8	44.1	5.95	3	2.70	44.4	0.00	44.4	4	0.00	1	40.56	0.50	273.8	640.0	799		385	9.16	14.7	1.2	1.96	3.15	35.7	1.96
2.20	2.18	28.0	1.63	-0.11	27.9	5.83	3	125	0.14	0.14	105.1	44.7	5.86	3	2.69	44.9	0.00	44.9	4	0.00	1	40.13	0.50	273.8	640.6	800		389	9.27	14.9	1.2	1.99	3.19	35.8	1.99
2.40	2.31	28.2	1.64	-0.10	28.2	5.82	3	126	0.14	0.14	106.0	45.0	5.86	3	2.69	45.3	0.00	45.3	4	0.00	1	39.98	0.50	273.8	642.1	805		393	9.35	15.0	1.2	2.00	3.22	35.8	2.00
2.50	2.44	28.4	1.66	-0.08	28.4	5.83	3	126	0.15	0.15	106.9	45.4	5.86	3	2.69	45.7	0.00	45.7	4	0.00	1	39.86	0.51	273.8	644.0	810		396	9.43	15.1	1.2	2.02	3.25	35.8	2.02
2.70	2.58	28.3	1.67	-0.07	28.2	5.90	3	126	0.16	0.16	106.1	45.1	5.94	3	2.69	45.4	0.00	45.4	4	0.00	1	40.19	0.51	273.8	644.2	811		393	9.36	15.0	1.2	2.01	3.22	35.8	2.01
2.80	2.72	28.5	1.69	-0.06	28.5	5.91	3	126	0.17	0.17	107.2	45.6	5.94	3	2.69	45.9	0.00	45.9	4	0.00	1	40.04	0.51	273.8	646.3	817		397	9.45	15.2	1.2	2.03	3.25	35.8	2.03
2.90	2.84	28.5	1.70	-0.05	28.5	5.95	3	126	0.18	0.18	107.0	45.5	5.99	3	2.70	45.8	0.00	45.8	4	0.00	1	40.20	0.51	273.8	646.9	818		396	9.43	15.2	1.2	2.02	3.25	35.8	2.02
3.00	2.96	28.6	1.68	-0.05	28.6	5.86	3	126	0.19	0.19	107.4	45.6	5.90	3	2.69	45.9	0.00	45.9	4	0.00	1	39.89	0.51	273.8	645.5	814		398	9.47	15.2	1.2	2.03	3.26	35.9	2.03
3.20	3.09	28.3	1.63	-0.05	28.3	5.76	3	126	0.19	0.19	106.4	45.2	5.80	3	2.69	45.5	0.00	45.5	4	0.00	1	39.73	0.51	273.8	641.5	803		394	9.38	15.1	1.2	2.01	3.23	35.8	2.01
3.30	3.23	28.6	1.59	-0.05	28.6	5.58	3	125	0.20	0.20	107.3	45.6	5.62	4	2.67	45.9	0.00	45.9	4	0.00	1	39.06	0.51	273.8	638.9	795		397	9.46	15.2	1.3	2.03	3.26	35.8	2.03
3.40	3.36	28.7	1.58	-0.05	28.7	5.48	3	125	0.21	0.21	107.8	45.8	5.53	4	2.67	46.2	0.00	46.2	4	0.00	1	38.72	0.52	273.8	637.7	792		399	9.51	15.3	1.3	2.04	3.27	35.9	2.04
3.60	3.50	28.9	1.55	-0.05	28.9	5.36	3	125	0.22	0.22	108.3	46.0	5.40	4	2.66	46.4	0.00	46.4	4	0.00	1	38.27	0.52	273.8	635.8	786		401	9.55	15.3	1.3	2.05	3.29	35.9	2.05
3.70	3.63	28.9	1.52	-0.05	28.9	5.27	3	125	0.23	0.23	108.5	46.1	5.31	4	2.65	46.5	0.00	46.5	4	0.00	1	37.96	0.52	273.8	633.8	781		402	9.57	15.4	1.3	2.05	3.29	35.9	2.05
3.80	3.76	28.8	1.51	-0.05	28.8	5.24	3	125	0.24	0.24	107.9	45.9	5.29	4	2.65	46.2	0.00	46.2	4	0.00	1	37.97	0.52	273.8	632.2	776		400	9.51	15.3	1.3	2.04	3.28	35.9	2.04
4.00	3.90	28.4	1.51	-0.04	28.3	5.34	3	125	0.24	0.24	106.2	45.1	5.38	4	2.66	45.5	0.00	45.5	4	0.00	1	38.49	0.52	273.8	631.3	774		393	9.37	15.0	1.3	2.01	3.22	35.8	2.01
4.10	4.03	28.2	1.52	-0.04	28.2	5.39	3	125	0.25	0.25	105.6	44.9	5.44	4	2.67	45.3	0.00	45.3	4	0.00	1	38.73	0.52	273.8	631.4	774		391	9.31	15.0	1.3	2.00	3.21	35.8	2.00
4.20	4.15	28.3	1.54	-0.04	28.3	5.46	3	125	0.26	0.26	106.0	45.0	5.51	4	2.67	45.5	0.00	45.5	4	0.00	1	38.90	0.52	273.8	633.8	781		392	9.34	15.0	1.3	2.00	3.22	35.8	2.00
4.30	4.27	28.5	1.56	-0.03	28.5	5.46	3	125	0.27	0.27	105.6	45.3	5.52	4	2.67	45.7	0.00	45.7	4	0.00	1	38.83	0.52	273.8	635.0	784		395	9.40	15.1	1.3	2.01	3.24	35.8	2.01
4.50	4.40	28.8	1.56	-0.03	28.8	5.40	3	125	0.28	0.28	103.7	45.9	5.45	4	2.66	46.3	0.00	46.3	4	0.00	1	38.43	0.52	273.8	635.9	787		400	9.52	15.3	1.3	2.04	3.28	35.9	2.04
4.60	4.54	28.9	1.54	-0.02	28.9	5.32	3	125	0.28	0.28	100.7	45.9	5.38	4	2.66	46.4	0.00	46.4	4	0.00	1	38.19	0.53	273.9	634.5	783		400	9.53	15.3	1.3	2.04	3.28	35.9	2.04
4.70	4.67	29.0	1.53	-0.02	29.0	5.29	3	125	0.29	0.29	98.2	46.1	5.34	4	2.65	46.6	0.00	46.6	4	0.00	1	38.04	0.53	273.9	634.3	782		402	9.56	15.4	1.3	2.05	3.29	35.9	2.05
4.90	4.80	29.7	1.53	-0.02	29.7	5.16	3	125	0.30	0.30	97.9	47.2	5.21	4	2.64	47.7	0.00	47.7	4	0.00	1	37.25	0.53	273.9	635.9	787		412	9.80	15.7	1.4	2.10	3.37	36.0	2.10
5.00	4.93	30.3	1.56	-0.02	30.3	5.14	3	125	0.31	0.31	97.2	48.2	5.19	4	2.63	48.7	0.00	48.7	4	0.00	1	36.91	0.53	273.9	639.4	796		420	9.99	16.1	1.4	2.14	3.44	36.1	2.14
5.10	5.06	30.2	1.59	-0.02	30.2	5.26	3	125	0.32	0.32	94.5	48.1	5.31	4	2.64	48.6	0.00	48.6	4	0.00	1	37.31	0.53	273.9	642.0	804		419	9.97	16.0	1.3	2.14	3.43	36.1	2.14
5.30	5.19	30.4	1.62	-0.02	30.4	5.33	3	126	0.32	0.32	92.7	48.4	5.39	4	2.64	48.9	0.00	48.9	4	0.00	1	37.45	0.53	273.9	645.1	813		422	10.04	16.1	1.3	2.15	3.46	36.1	2.15
5.40	5.33	30.0	1.62	-0.02	30.0	5.41	3	126	0.33	0.33	88.9	47.7	5.47	4	2.65	48.2	0.00	48.2	4	0.00	1	37.89	0.53	273.9	643.8	809		415	9.89	15.9	1.3	2.12	3.40	36.1	2.12
5.50	5.47	29.3	1.59	-0.02	29.3	5.43	3	125	0.34	0.34	84.6	46.6	5.49	4	2.66	47.1	0.00	47.1	4	0.00	1	38.31	0.53	273.9	639.7	798		406	9.66	15.5	1.3	2.07	3.33	35.9	2.07
5.60	5.60	28.7	1.55	-0.02	28.7	5.40	3	125	0.35	0.35	81.0	45.6	5.47	4	2.66	46.2	0.00	46.2	4	0.00	1	38.54	0.53	273.9	634.9	784		397	9.46	15.2	1.3	2.03	3.26	35.8	2.03
5.80	5.72	27.7	1.51	-0.03	27.7	5.46	3	125	0.36	0.36	76.4	43.9	5.54	4	2.68	44.5	0.00	44.5	4	0.00	1	39.30	0.54	273.9	629.0	768		383	9.12	14.6	1.3	1.95	3.14	35.7	1.95
5.90	5.85	27.2	1.46	-0.03	27.2	5.36	3	125	0.37	0.37	73.2	43.1	5.44	4	2.68	43.7	0.00	43.7	4	0.00	1	39.30	0.54	273.9	622.8	751		375	8.94	14.4	1.3	1.91	3.08	35.6	1.91
6.00	5.98	26.7	1.40	-0.03	26.7	5.25	3	124	0.37	0.37	70.3	42.3	5.32	4	2.68	42.9	0.00	42.9	4	0.00	1	39.23	0.54	273.9	616.5	734		368	8.77	14.1	1.3	1.88	3.02	35.5	1.88
6.20	6.12	26.5	1.35	-0.03	26.5	5.09	3	124	0.38	0.38	68.3	42.0	5.16	4	2.67	42.6	0.00	42.6	4	0.00	1	38.81	0.54	273.9	611.5	720		366	8.72	14.0	1.4	1.87	3.00	35.5	1.87
6.30	6.25	27.2	1.33	-0.03	27.2	4.89	3	124	0.39	0.39	68.5	43.0	4.96	4	2.65	43.7	0.00	43.7	4	0.00	1	37.81	0.54	273.9	611.2	719		375	8.93	14.3	1.4	1.91	3.07	35.6	1.91
6.40	6.38	27.9	1.34	-0.03	27.9	4.79	3	124	0.40	0.40	68.8	44.1	4.86	4	2.64	44.8	0.00	44.8	4	0.00	1	37.12	0.54	273.9	613.5	725		384	9.15	14.7	1.5	1.96	3.15	35.7	1.96
6.60	6.51	28.1	1.37	-0.02	28.1	4.86	3	124	0.41	0.41	68.0	44.5	4.93	4	2.64	45.2	0.00	45.2	4	0.00	1	37.20	0.54	273.9	616.8	734		388	9.23	14.8	1.4	1.98	3.18	35.7	1.98
6.70	6.65	27.6	1.37	-0.02	27.6	4.99	3	124	0.42	0.42	65.3	43.6	5.06	4	2.65	44.3	0.00	44.3	4	0.00	1	37.92	0.54	273.9	616.1	733		380	9.05	14.5	1.4	1.94	3.12	35.6	1.94
6.90	6.79	26.2	1.35	-0.02	26.2	5.17	3	124	0.42	0.42	60.6	41.3	5.26	4	2.68	42.0	0.00	42.0	4	0.00	1	39.34	0.55	273.9	610.4	718		360	8.58	13.8	1.4	1.84	2.95	35.4	1.84
7.00	6.91	25.5	1.32	-0.01	25.5	5.16	3	124	0.43	0.43	58.1	40.3	5.25	4	2.69	41.0	0.00	41.0	4	0.00	1	39.69	0.55	273.9	605.3	704		351	8.36	13.4	1.4	1.79	2.88	35.3	1.79
7.10	7.03	24.6	1.27	0.01	24.6	5.17	3	123	0.44	0.44	55.0	38.8	5.27	4	2.60	39.5	0.00	39.5	4	0.00	1	35.36	0.55	273.9	562.8	607		338	8.06	12.9	1.3	1.73	2.77	35.1	1.73
7.20	7.16	23.8	1.24	0.01	23.8	5.19	3	123	0.45	0.45	52.3	37.6	5.29	4	2.62	38.3	0.00	38.3	4	0.00	1	36.17	0.55	273.9	559.4	598		327	7.79	12.5	1.3	1.67	2.68	34.9	1.67
7.40	7.29	23.4	1.21	0.01	23.4	5.16	3	123	0.46	0.46	50.5	36.9	5.27	4	2.62	37.7	0.00	37.7	4	0.00	1	36.59	0.56	273.9	557.6	593		322	7.66	12.3	1.3	1.64	2.64	34.8	1.64
7.50	7.42	23.2	1.19	0.02	23.2	5.12	3	123	0.46	0.46	49.2	36.6	5.23	4	2.63	37.3	0.00	37.3	4	0.00	1	36.86	0.56	273.9	557.0	591		319	7.59	12.2	1.4	1.63	2.61	34.8	1.63
7.60	7.56	22.5	1.16	0.02	22.5	5.14	3	122	0.47	0.47	46.7	35.4	5.25	4	2.65	36.2	0.00	36.2	4	0.00	1	37.68	0.56	273.9	553.6	583		309	7.35	11.8	1.4	1.57	2.53	34.6	1.57
7.80	7.69	21.1	1.08	0.02	21.1	5.14	3	122	0.48	0.48	43.0	33.1	5.26	4	2.67	33.9	0.00	33.9	4	0.00	1	38.98	0.57	274.0	544.2	560		289	6.88	11.0	1.4	1.47	2.37	34.3	1.47
7.90	7.82	19.2	0.96	0.01	19.2	5.00	3	121	0.49	0.49	38.3	30.0	5.13	4	2.70	30.8	0.00	30.8	4	0.00	1	40.42	0.57	274.0	526.8	520		261	6.22	10.0	1.4	1.33	2.14	33.8	1.33
8.00	7.95	17.3	0.97	0.00	17.3	5.61	3	120	0.50	0.50	33.9	27.0	5.77	3	2.77	27.8	0.00	27.8	4	0.00	1	44.41	0.58	274.0	523.5	513		235	5.60	9.0	1.2	1.20	1.93	33.3	1.20
8.20	8.09	15.6	0.90	-0.02	15.6	5.79	3	120	0.50	0.50	29.9	24.2	5.98	3	2.82	25.0	0.00	25.0	4	0.00	1	47.31	0.59	274.0	511.4	486		211	5.02	8.1	1.2	1.08	1.73	32.8	1.08
8.30	8.22	14.1	0.85	-0.03	14.1	6.04	3	119	0.51	0.51	26.6	21.8	6.26	3	2.87	22.7	0.00	22.7	4	0.00	1	50.32	0.60	274.0	501.5	465		190	4.53	7.3	1.1	0.97	1.56	32.3	0.97
8.40	8.35	13.9	0.81	-0.04	13.9	5.82	3	118	0.52	0.52	25.8	21.5	6.04	3	2.87	22.3	0.00	22.3	4	0.00	1	50.23	0.60	274.1	497.2	455		187	4.46	7.2	1.2	0.96	1.54	32.3	0.96
8.50	8.48	13.2	0.75	-0.04	13.2	5.71	3	118	0.53	0.53	24.0	20.3	5.95	3	2.89	21.2	0.00	21.2	4	0.00	1	51.31	0.60	274.1	488.7	437		177	4.21	6.8	1.2	0.90	1.45	32.0	0.90
8.70	8.61	12.3	0.71	-0.04	12.3	5.81	3	117	0.53	0.53	22.0	18.9	6.07	3	2.92	19.8	0.00	19.8	4	0.00	1	53.40	0.61	274.1	481.4	422		165	3.92	6.3	1.2	0.84	1.35	31.6	0.84
8.80	8.75	11.1	0.68	-0.05	11.1	6.10	3	117	0.54	0.54	19.5	17.0	6.41	3	2.98	17.7	0.00	17.7	3	0.00	1	56.95	0.62	274.1	472.7	405		148	3.53	5.7	1.1	0.76	1.21	31.1	0.76
9.00	8.88	10.5	0.65	-0.07	10.5	6.20	3	116	0.55	0.55	18.1	16.0	6.55	3	3.01	16.5	0.00	16.5	3	0.01	1	59.01	0.62	274.1	467.2	394		139	3.31	5.3	1.1	0.71	1.14	30.8	0.71
9.10	9.00	10.6	0.64	-0.11	10.6	6.05	3	116	0.56	0.56	18.0	16.1	6.40	3	3.00	16.5	0.00	16.5	3	0.01	1	58.62	0.62	274.1	467.5	394		140	3.34	5.4	1.1	0.72	1.15	30.9	0.72

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Z_b (ft)	Z_m (ft)	q_c (tsf)	f_s (tsf)	u_2 (tsf)	q_t (tsf)	R_f	SBT	γ (pcf)	σ_{v0} (tsf)	σ_{v0}' (tsf)	Q_t	Q_{tn}	F_R	SBT_n	I_c	q_{c1N}	K_c	$Q_{tn,cs}$	$(SBT)_{Ic}$	B_q	$(SBT)_{Bq}$	F_C (%)	c	R	V_s (ft/s)	G_0 (tsf)	E' (tsf)	M (tsf)	σ_p' (tsf)	OCR	S_t	S_u (tsf)	S_u/σ_{v0}'	φ (°)	c' (tsf)
9.20	9.14	11.3	0.63	-0.10	11.3	5.58	3	116	0.57	0.57	18.9	17.2	5.88	3	2.96	17.4	0.00	17.4	3	0.01	1	55.90	0.62	274.1	470.6	399		150	3.57	5.7	1.2	0.76	1.23	31.2	0.76
9.30	9.27	12.0	0.62	-0.09	11.9	5.16	3	116	0.57	0.57	19.8	18.3	5.42	3	2.92	18.3	0.00	18.3	4	0.01	1	53.38	0.61	274.1	473.3	404		159	3.79	6.1	1.3	0.81	1.31	31.5	0.81
9.50	9.39	12.4	0.61	-0.08	12.3	4.97	3	116	0.58	0.58	20.3	18.9	5.22	3	2.90	18.7	0.00	18.7	4	0.01	1	52.25	0.61	274.1	475.9	408		165	3.92	6.3	1.4	0.84	1.35	31.6	0.84
9.60	9.52	12.6	0.62	-0.09	12.6	4.89	3	116	0.59	0.59	20.4	19.0	5.13	3	2.90	18.9	0.00	18.9	4	0.01	1	51.80	0.61	274.1	478.4	413		168	4.00	6.3	1.4	0.86	1.36	31.7	0.86
9.70	9.66	12.9	0.61	-0.09	12.9	4.73	3	116	0.60	0.60	20.7	19.2	4.96	3	2.88	19.2	0.00	19.2	4	0.01	1	50.94	0.61	274.1	480.7	417		173	4.11	6.4	1.4	0.88	1.37	31.7	0.88
9.90	9.79	13.0	0.61	-0.09	13.0	4.68	3	116	0.60	0.60	20.6	19.2	4.92	3	2.88	19.1	0.00	19.1	4	0.01	1	50.88	0.61	274.1	482.1	420		174	4.14	6.4	1.4	0.89	1.37	31.7	0.89
10.00	9.93	13.1	0.61	-0.04	13.1	4.66	3	116	0.61	0.61	20.5	19.1	4.89	3	2.88	19.1	0.00	19.1	4	0.00	1	50.85	0.61	274.1	484.3	424		175	4.18	6.4	1.5	0.90	1.37	31.7	0.90
10.10	10.06	13.7	0.61	-0.09	13.6	4.47	3	116	0.62	0.62	21.1	19.6	4.69	3	2.86	19.7	0.00	19.7	4	0.01	1	49.54	0.61	274.1	487.2	429		182	4.34	6.5	1.5	0.93	1.40	31.8	0.93
10.30	10.19	14.0	0.61	-0.09	13.9	4.38	3	116	0.63	0.62	21.5	19.9	4.60	3	2.85	20.0	0.00	20.0	4	0.01	1	48.87	0.61	274.1	489.0	432		186	4.44	6.6	1.5	0.95	1.42	31.9	0.95
10.40	10.32	14.3	0.62	-0.08	14.3	4.31	3	116	0.63	0.62	21.9	20.4	4.51	3	2.84	20.5	0.00	20.5	4	0.01	1	48.11	0.60	274.1	491.9	438		192	4.56	6.8	1.6	0.98	1.45	32.0	0.98
10.50	10.47	13.8	0.61	-0.08	13.8	4.41	3	116	0.64	0.63	20.9	19.5	4.63	3	2.86	19.6	0.00	19.6	4	0.01	1	49.47	0.61	274.1	489.1	432		184	4.38	6.5	1.5	0.94	1.39	31.8	0.94
10.60	10.59	13.5	0.60	-0.06	13.5	4.46	3	116	0.65	0.63	20.4	19.0	4.69	3	2.87	19.1	0.00	19.1	4	0.01	1	50.25	0.61	274.1	487.6	429		180	4.29	6.3	1.5	0.92	1.36	31.7	0.92
10.80	10.71	13.6	0.59	-0.04	13.6	4.36	3	116	0.66	0.63	20.4	19.1	4.58	3	2.86	19.2	0.00	19.2	4	0.00	1	49.80	0.61	274.1	487.0	428		181	4.32	6.4	1.5	0.93	1.36	31.7	0.93
10.90	10.84	13.8	0.57	-0.02	13.8	4.17	3	116	0.66	0.64	20.5	19.1	4.38	3	2.85	19.3	0.00	19.3	4	0.00	1	48.93	0.61	274.1	485.2	424		183	4.36	6.4	1.6	0.94	1.37	31.7	0.94
11.00	10.97	13.5	0.57	-0.02	13.5	4.23	3	116	0.67	0.64	20.0	18.7	4.45	3	2.86	18.9	0.00	18.9	4	0.00	1	49.68	0.61	274.1	484.3	422		180	4.28	6.2	1.6	0.92	1.34	31.6	0.92
11.20	11.11	13.2	0.57	-0.01	13.2	4.31	3	116	0.68	0.65	19.4	18.2	4.55	3	2.88	18.4	0.00	18.4	4	0.00	1	50.64	0.61	274.1	483.5	420		176	4.18	6.1	1.6	0.90	1.30	31.5	0.90
11.30	11.25	12.8	0.57	0.00	12.8	4.49	3	116	0.69	0.65	18.6	17.6	4.74	3	2.90	17.7	0.00	17.7	4	0.00	1	52.23	0.61	274.1	482.6	419		169	4.03	5.9	1.5	0.86	1.26	31.3	0.86
11.40	11.38	12.9	0.58	-0.01	12.9	4.48	3	116	0.70	0.65	18.7	17.6	4.74	3	2.90	17.8	0.00	17.8	4	0.00	1	52.19	0.61	274.1	484.2	422		171	4.06	5.9	1.5	0.87	1.26	31.3	0.87
11.60	11.50	12.8	0.58	-0.02	12.8	4.52	3	116	0.70	0.66	18.5	17.5	4.78	3	2.91	17.6	0.00	17.6	4	0.01	1	52.54	0.61	274.1	484.8	423		170	4.04	5.8	1.5	0.87	1.25	31.3	0.87
11.70	11.63	13.0	0.56	-0.01	13.0	4.31	3	116	0.71	0.66	18.6	17.6	4.56	3	2.89	17.8	0.00	17.8	4	0.00	1	51.58	0.61	274.1	482.9	419		172	4.09	5.9	1.6	0.88	1.25	31.3	0.88
11.80	11.76	13.3	0.55	0.00	13.3	4.16	3	115	0.72	0.66	19.0	17.8	4.40	3	2.88	18.1	0.00	18.1	4	0.00	1	50.58	0.61	274.1	483.5	419		176	4.19	5.9	1.6	0.90	1.27	31.4	0.90
11.90	11.88	12.4	0.52	0.00	12.4	4.24	3	115	0.72	0.67	17.5	16.5	4.50	3	2.91	16.8	0.00	16.8	4	0.00	1	52.67	0.62	274.1	475.2	403		163	3.88	5.5	1.6	0.83	1.18	31.0	0.83
12.10	12.01	10.6	0.51	-0.02	10.6	4.83	3	114	0.73	0.67	14.7	14.1	5.19	3	3.01	14.3	0.00	14.3	3	0.01	1	58.94	0.63	274.1	465.2	384		138	3.29	4.7	1.4	0.70	1.01	30.3	0.70
12.20	12.14	10.5	0.52	-0.06	10.4	5.02	3	114	0.74	0.67	14.4	13.9	5.40	3	3.03	14.1	0.00	14.1	3	0.01	1	60.19	0.63	274.1	466.8	388		135	3.24	4.6	1.3	0.69	0.99	30.2	0.69
12.30	12.28	11.3	0.55	-0.06	11.3	4.89	3	115	0.75	0.68	15.6	15.0	5.23	3	2.99	15.2	0.00	15.2	3	0.01	1	57.79	0.62	274.1	476.4	406		148	3.52	5.0	1.4	0.76	1.07	30.5	0.76
12.50	12.42	13.3	0.58	-0.05	13.3	4.34	3	116	0.76	0.68	18.4	17.4	4.60	3	2.90	17.7	0.00	17.7	4	0.01	1	51.98	0.61	274.1	489.5	431		175	4.17	5.8	1.5	0.89	1.25	31.3	0.89
12.60	12.55	14.3	0.58	-0.02	14.3	4.05	3	116	0.76	0.68	19.8	18.7	4.28	3	2.86	19.0	0.00	19.0	4	0.01	1	49.25	0.61	274.1	494.9	442		189	4.51	6.2	1.7	0.97	1.33	31.6	0.97
12.70	12.68	14.0	0.58	0.01	14.0	4.16	3	116	0.77	0.69	19.2	18.1	4.40	3	2.87	18.5	0.00	18.5	4	0.01	1	50.34	0.61	274.1	494.2	440		185	4.40	6.0	1.6	0.94	1.30	31.4	0.94
12.90	12.80	12.3	0.61	-0.01	12.3	4.93	3	116	0.78	0.69	16.7	16.0	5.26	3	2.97	16.2	0.00	16.2	3	0.01	1	56.44	0.62	274.1	491.1	435		161	3.84	5.3	1.3	0.82	1.14	30.8	0.82
13.00	12.95	11.4	0.61	-0.04	11.4	5.37	3	116	0.79	0.69	15.2	14.7	5.77	3	3.03	15.0	0.00	15.0	3	0.01	1	60.24	0.63	274.1	487.7	428		148	3.53	4.9	1.2	0.76	1.05	30.4	0.76
13.10	13.08	11.3	0.59	-0.03	11.3	5.24	3	116	0.79	0.70	15.0	14.5	5.64	3	3.02	14.8	0.00	14.8	3	0.01	1	60.13	0.63	274.1	484.8	422		147	3.49	4.8	1.3	0.75	1.04	30.4	0.75
13.30	13.21	12.1	0.59	-0.02	12.1	4.86	3	116	0.80	0.70	16.1	15.5	5.20	3	2.98	15.8	0.00	15.8	3	0.01	1	57.01	0.62	274.1	488.9	430		158	3.77	5.2	1.4	0.81	1.11	30.7	0.81
13.40	13.34	13.0	0.58	0.00	13.0	4.47	3	116	0.81	0.70	17.3	16.5	4.76	3	2.93	16.9	0.00	16.9	4	0.01	1	53.89	0.62	274.1	492.3	436		170	4.06	5.5	1.5	0.87	1.18	31.0	0.87
13.50	13.46	13.6	0.56	0.02	13.6	4.15	3	116	0.82	0.71	18.0	17.1	4.42	3	2.90	17.6	0.00	17.6	4	0.01	1	51.69	0.61	274.1	492.8	437		179	4.25	5.7	1.6	0.91	1.22	31.2	0.91
13.70	13.60	13.8	0.57	0.02	13.8	4.12	3	116	0.82	0.71	18.2	17.3	4.38	3	2.89	17.7	0.00	17.7	4	0.01	1	51.36	0.61	274.1	494.8	440		181	4.31	5.8	1.6	0.92	1.24	31.2	0.92
13.80	13.73	13.7	0.57	0.02	13.7	4.16	3	116	0.83	0.71	18.0	17.2	4.42	3	2.90	17.6	0.00	17.6	4	0.01	1	51.72	0.61	274.1	495.4	442		180	4.29	5.7	1.6	0.92	1.23	31.2	0.92
13.90	13.86	13.8	0.57	0.02	13.8	4.10	3	116	0.84	0.72	18.1	17.2	4.37	3	2.89	17.7	0.00	17.7	4	0.01	1	51.44	0.61	274.1	495.8	442		182	4.33	5.7	1.6	0.93	1.23	31.2	0.93
14.10	13.99	14.5	0.57	0.03	14.5	3.93	4	116	0.85	0.72	19.0	18.0	4.18	3	2.86	18.5	0.00	18.5	4	0.01	1	49.67	0.61	274.1	500.1	451		192	4.56	6.0	1.7	0.98	1.29	31.4	0.98
14.20	14.14	15.0	0.59	0.03	15.0	3.92	4	116	0.85	0.73	19.5	18.5	4.16	3	2.85	19.0	0.00	19.0	4	0.01	1	49.09	0.61	274.1	504.9	460		198	4.71	6.2	1.7	1.01	1.32	31.5	1.01
14.30	14.26	15.8	0.61	0.03	15.8	3.87	4	117	0.86	0.73	20.4	19.4	4.09	3	2.83	19.9	0.00	19.9	4	0.01	1	47.86	0.60	274.1	511.8	475		209	4.97	6.5	1.7	1.06	1.38	31.8	1.06
14.40	14.37	16.0	0.65	0.02	16.0	4.04	4	117	0.87	0.73	20.7	19.7	4.27	3	2.84	20.2	0.00	20.2	4	0.01	1	48.28	0.60	274.1	518.9	490		213	5.06	6.6	1.7	1.08	1.41	31.8	1.08
14.60	14.50	17.3	0.67	0.01	17.3	3.89	4	118	0.88	0.74	22.3	21.1	4.10	4	2.80	21.6	0.00	21.6	4	0.01	1	46.22	0.60	274.1	527.3	508		229	5.46	7.0	1.7	1.17	1.51	32.2	1.17
14.70	14.65	17.1	0.65	0.00	17.1	3.83	4	117	0.88	0.74	21.9	20.7	4.04	4	2.81	21.3	0.00	21.3	4	0.01	1	46.31	0.60	274.1	524.5	502		227	5.39	6.9	1.8	1.16	1.48	32.1	1.16
14.80	14.78	16.6	0.64	0.00	16.6	3.85	4	117	0.89	0.74	21.2	20.1	4.07	3	2.82	20.7	0.00	20.7	4	0.01	1	47.09	0.60	274.1	521.6	495		220	5.25	6.7	1.7	1.12	1.44	31.9	1.12
15.00	14.90	16.2	0.63	-0.02	16.2	3.89	4	117	0.90	0.75	20.5	19.5	4.12	3	2.83	20.1	0.00	20.1	4	0.01	1	47.93	0.60	274.1	518.8	489		214	5.10	6.5	1.7	1.09	1.39	31.8	1.09
15.10	15.04	15.9	0.60	-0.02	15.9	3.78	4	117	0.91	0.75	19.9	19.0	4.01	3	2.83	19.6	0.00	19.6	4	0.01	1	48.03	0.61	274.1	513.5	477		209	4.98	6.3	1.8	1.07	1.35	31.7	1.07
15.20	15.17	14.9	0.57	-0.03	14.9	3.82	4	116	0.92	0.75	18.6	17.8	4.07	3	2.86	18.4	0.00	18.4	4	0.01	1	49.65	0.61	274.1	505.8	461		196	4.67	5.9	1.7	1.00	1.27	31.3	1.00
15.40	15.30	13.7	0.54	-0.03	13.7	3.92	3	115	0.92	0.76	16.8	16.2	4.20	3	2.90	16.8	0.00	16.8	4	0.02	1	52.27	0.62	274.1	495.4	440		178	4.25	5.4	1.7	0.91	1.15	30.9	0.91
15.50	15.44	12.9	0.49	-0.06	12.9	3.83	3	115	0.93	0.76	15.8	15.2	4.13	3	2.92	15.8	0.00	15.8	4	0.02	1	53.34	0.62	274.1	485.8	420		168	4.00	5.1	1.7	0.86	1.08	30.6	0.86
15.60	15.56	12.8	0.44	-0.08	12.8	3.41	4	114	0.94	0.76	15.6	14.9	3.69	3	2.90	15.6	0.00	15.6	4	0.02	1	51.70	0.62	274.1	475.8	400		166	3.96	5.0	1.9	0.85	1.07	30.5	0.85
15.80	15.69	11.8	0.37	-0.07	11.8	3.12	4	112	0.94	0.77	14.1	13.6	3.40	3	2.91	14.3	0.00	14.3	4	0.02	1	52.48	0.63	274.1	457.3	364		146	3.60	4.5	2.1	0.77	0.97	30.1	0.77
15.90	15.83	11.4	0.34	-0.07	11.4	3.01	4	111	0.95	0.77	13.5	13.0	3.29	3	2.91	13.8	0.00	13.8	4	0.02	1	52.89	0.63	274.1	450.7	352		135	3.47	4.3	2.2	0.74	0.93	29.9	0.74
16.00	15.96	10.7	0.32	-0.07	10.7	3.02	4	111	0.96	0.77	12.6	12.1	3.32	3	2.94	12.9	0.00	12.9	4	0.03	1	54.62	0.64	274.2	443.2	339		118	3.24	4.0	2.1	0.69	0.87	29.5	0.69
16.20	16.09	10.0	0.31	-0.07	10.0	3.11	4	110	0.97	0.78	11.6	11.3	3.45	3	2.98	12.0	0.00	12.0	3	0.03	1	57.05	0.64	274.2	437.3	328		102	3.01	3.8	2.1	0.65	0.81	29.2	0.65
16.30	16.22	9.5	0.31	-0.07	9.5	3.27	4	110	0.97	0.78	10.9	10.7	3.65	3	3.01	11.4	0.00	11.4	3	0.03	1	59.43	0.65	274.2	434.9	324		91	2.85	3.6	1.9	0.61	0.76	28.9	0.61
16.40	16.34	9.0	0.31	-0.06	9.0	3.40	3	110	0.98	0.78	10.3	10.0	3.81	3	3.05	10.8	0.00	10.8	3	0.03	1	61.74	0.65	274.2	431.2	318		81	2.68	3.3	1.9	0.57	0.72	28.6	0.57
16.50	16.48	9.0	0.30	-0.06	9.0	3.27	4	110	0.99	0.79	10.2	10.0	3.68	3	3.04	10.8	0.00	10.8	3	0.03	1	61.22	0.65	274.2	428.9	314		80	2.68	3.3	1.9	0.57	0.71	28.6	0.57
16.70	16.61	8.9	0.29	-0.06	8.9	3.31	4	110	1.00	0.79	10.0	9.8	3.73	3	3.05	10.6	0.00	10.6	3	0.03	1	62.06	0.65	274.2	428.1	312		77	2.63	3.3	1.9	0.56	0.70	28.5	0.56
16.80	16.74	8.3	0.28	-0.06	8.3	3.42	3	109	1.00	0.79	9.1	9.0	3.90	3	3.09	9.8	0.00	9.8	3	0.04	1	65.05	0.66	274.2	421.5	302		65	2.42	3.0	1.8	0.52	0.64	28.1	0.52
16.90	16.87	7.8	0.27	-0.06	7.8	3.43	3	109	1.01	0.80	8.6	8.4	3.95	3	3.12	9.2	0.00	9.2	3	0.04	1	66.99	0.66	274.2	415.4	292		57	2.27	2.8	1.8	0.49	0.60	27.8	0.49
17.10	17.01	7.3	0.26	-0.06	7.3	3.52	3	108	1.02	0.80	7.8	7.7	4.09	3	3.16	8.6	0.00	8.6	3	0.04	1	70.00	0.67	274.3	408.6	281		48	2.09	2.6	1.7	0.45	0.55	27.4	0.45
17.20	17.16	7.2	0.25	-0.06	7.1	3.43	3	108	1.03	0.80	7.6	7.5	4.01	3	3.17	8.4	0.00	8.4	3	0.05	1	70.35	0.67	274.3	405.0	275		46	2.04	2.5	1.8	0.44	0.54	27.2	0.44
17.30	17.29	7.1	0.24	-0.06	7.1	3.36	3	108	1.03	0.81	7.5	7.4	3.94	3	3.17	8.3	0.00	8.3	3	0.05	1	70.39	0.67	274.3	403.2	272		45	2.02	2.5	1.8	0.43	0.53	27.2	0.43
17.50	17.40	6.9	0.23	-0.06	6.8	3.35	3	107	1.04	0.81	7.2	7.1	3.96	3	3.18	8.0	0.00	8.0	3	0.05	1	71.69	0.67	274.3	399.0	265		41	1.94	2.4	1.8	0.41	0.51	27.0	0.41
17.60	17.53	6.5	0.22	-0.06	6.5	3.35	3	107	1.05	0.81	6.7	6.6	4.00	3	3.21	7.5	0.00	7.5	3	0.05	1	73.95	0.68	274.3	392.5	255		36	1.80	2.2	1.8	0.39	0.47	26.6	0.39
17.70	17.67	6.2	0.20	-0.05	6.2	3.25	3	106	1.05	0.81	6.3	6.2	3.92	3	3.23	7.2	0.00	7.2	3	0.06	1	75.30	0.68	274.3	385.6	245		32	1.70	2.1	1.8	0.37	0.45	26.4	0.37
17.90	17.80	6.1	0.19	-0.05	6.1	3.13	3	105	1.06	0.82	6.1	6.1	3.80	3	3.23	7.0	0.00	7.0	3	0.06	1	75.34	0.68	274.3	381.8	239		31	1.67	2.0	1.9	0.36	0.44	26.2	0.36
18.00	17.92	5.7	0.18	-0.05	5.7	3.21	3	105	1.07	0.82	5.6	5.6	3.95	3	3.27	6.6	0.00	6.6	3	0.07	1	78.64	0.69	274.3	375.8	230		26	1.54	1.9	1.8	0.33	0.40	25.8	0.33
18.10	18.05	5.2	0.17	-0.05	5.1	3.35	3	104	1.07	0.82	5.0	5.0	4.24	3	3.33	5.9	0.00	5.9	3	0.07	1	83.88	0.70	274.3	367.6	219		20	1.36	1.7	1.7	0.29	0.35	25.2	0.29

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Z_b (ft)	Z_m (ft)	q_c (tsf)	f_s (tsf)	u_2 (tsf)	q_t (tsf)	R_f	SBT	γ (pcf)	σ_{v0} (tsf)	σ_{v0}' (tsf)	Q_t	Q_{tn}	F_R	SBT_n	I_c	q_{c1N}	K_c	$Q_{tn,cs}$	$(SBT)_{Ic}$	B_q	$(SBT)_{Bq}$	F_C (%)	c	R	V_s (ft/s)	G_0 (tsf)	E' (tsf)	M (tsf)	σ_p' (tsf)	OCR	S_t	S_u (tsf)	S_u/σ_{v0}'	φ (°)	c' (tsf)
18.30	18.19	5.1	0.17	-0.05	5.0	3.29	3	104	1.08	0.82	4.8	4.8	4.19	3	3.34	5.8	0.00	5.8	3	0.08	1	84.60	0.70	274.3	364.6	215		19	1.32	1.6	1.7	0.28	0.34	25.1	0.28
18.40	18.32	5.6	0.17	-0.05	5.6	3.10	3	105	1.09	0.83	5.4	5.4	3.84	3	3.28	6.4	0.00	6.4	3	0.07	1	79.15	0.69	274.3	372.5	226		24	1.50	1.8	1.8	0.32	0.39	25.7	0.32
18.50	18.45	6.8	0.15	-0.05	6.8	2.19	4	104	1.09	0.83	6.9	6.8	2.61	3	3.10	7.8	0.00	7.8	3	0.06	1	65.49	0.68	274.3	375.2	227		39	1.90	2.3	2.7	0.41	0.48	26.7	0.41
18.70	18.59	11.5	0.12	-0.05	11.5	1.71	5	107	1.10	0.83	12.5	12.0	1.18	4	2.70	13.1	0.00	13.1	4	0.03	1	40.61	0.63	274.2	394.1	259		124	3.47	4.0	6.0	0.74	0.85	29.5	0.74
18.80	18.71	6.2	0.12	-0.05	6.2	1.87	4	102	1.11	0.84	6.1	6.0	2.28	3	3.12	7.0	0.00	7.0	3	0.06	1	66.74	0.69	274.3	357.3	202		30	1.69	2.0	3.1	0.36	0.43	26.1	0.36
18.90	18.85	5.4	0.10	-0.05	5.4	1.75	4	100	1.11	0.84	5.2	5.1	2.21	3	3.17	6.2	0.00	6.2	3	0.07	1	70.73	0.70	274.3	341.6	181		22	1.44	1.7	3.2	0.31	0.36	25.4	0.31
19.10	18.99	5.0	0.09	-0.05	5.0	1.82	4	99	1.12	0.84	4.6	4.6	2.35	3	3.23	5.7	0.00	5.7	3	0.08	1	75.05	0.70	274.4	335.0	173		18	1.29	1.5	3.0	0.28	0.33	24.9	0.28
19.20	19.11	4.9	0.09	-0.05	4.9	1.79	4	99	1.13	0.84	4.4	4.4	2.34	3	3.24	5.5	0.00	5.5	3	0.09	1	76.26	0.71	274.4	331.6	169		16	1.24	1.5	3.0	0.27	0.31	24.7	0.27
19.30	19.23	4.9	0.09	-0.05	4.9	1.76	1	99	1.13	0.85	4.4	4.4	2.30	3	3.24	5.5	0.00	5.5	3	0.09	1	76.07	0.71	274.4	330.8	168		16	1.24	1.5	3.1	0.27	0.31	24.7	0.27
19.40	19.36	5.0	0.09	-0.04	5.0	1.71	1	99	1.14	0.85	4.5	4.5	2.23	3	3.22	5.6	0.00	5.6	3	0.09	1	74.90	0.71	274.4	331.9	169		17	1.27	1.5	3.2	0.27	0.32	24.8	0.27
19.60	19.49	5.0	0.09	-0.04	5.0	1.71	1	99	1.15	0.85	4.5	4.5	2.22	3	3.22	5.6	0.00	5.6	3	0.09	1	74.56	0.71	274.4	332.9	170		17	1.29	1.5	3.2	0.28	0.32	24.8	0.28
19.70	19.63	5.4	0.07	-0.04	5.4	1.35	1	98	1.15	0.85	5.0	5.0	1.72	3	3.13	6.1	0.00	6.1	3	0.08	1	67.54	0.70	274.3	331.1	167		21	1.43	1.7	4.1	0.31	0.35	25.3	0.31
19.80	19.76	5.4	0.07	-0.03	5.4	1.35	1	98	1.16	0.86	4.9	4.9	1.72	3	3.13	6.0	0.00	6.0	3	0.08	1	67.96	0.70	274.3	330.1	166		21	1.41	1.6	4.1	0.30	0.35	25.2	0.30
20.00	19.89	5.1	0.09	-0.03	5.1	1.69	1	99	1.17	0.86	4.6	4.6	2.20	3	3.21	5.7	0.00	5.7	3	0.09	1	74.05	0.70	274.4	334.8	173		18	1.31	1.5	3.2	0.28	0.33	24.8	0.28
20.10	20.03	5.2	0.13	-0.03	5.1	2.61	3	102	1.17	0.86	4.6	4.6	3.38	3	3.31	5.7	0.00	5.7	3	0.09	1	81.57	0.70	274.4	356.7	203		18	1.32	1.5	2.1	0.28	0.33	24.9	0.28
20.20	20.17	6.0	0.17	-0.03	6.0	2.88	3	105	1.18	0.86	5.6	5.6	3.59	3	3.25	6.7	0.00	6.7	3	0.07	1	76.86	0.69	274.3	380.0	235		27	1.61	1.9	2.0	0.35	0.40	25.8	0.35
20.40	20.29	7.9	0.20	-0.03	7.9	2.64	4	107	1.19	0.87	7.7	7.6	3.01	3	3.09	8.7	0.00	8.7	3	0.05	1	64.78	0.67	274.2	403.9	271		51	2.23	2.5	2.4	0.48	0.54	27.3	0.48
20.50	20.42	9.4	0.21	-0.09	9.4	2.26	5	107	1.19	0.87	9.5	9.3	2.59	3	2.98	10.4	0.00	10.4	3	0.05	1	57.22	0.65	274.2	417.9	292		76	2.74	3.1	2.7	0.59	0.66	28.2	0.59
20.60	20.56	9.4	0.21	-0.11	9.4	2.24	5	107	1.20	0.87	9.4	9.2	2.57	3	2.98	10.3	0.00	10.3	3	0.05	1	57.36	0.65	274.2	416.9	290		75	2.72	3.1	2.8	0.58	0.66	28.2	0.58
20.80	20.69	9.1	0.20	-0.12	9.1	2.23	5	107	1.21	0.87	9.0	8.9	2.58	3	3.00	10.0	0.00	10.0	3	0.06	1	58.24	0.66	274.2	413.9	285		70	2.64	3.0	2.8	0.57	0.63	28.0	0.57
20.90	20.82	10.5	0.21	-0.11	10.5	2.00	5	108	1.22	0.88	10.6	10.3	2.26	4	2.91	11.5	0.00	11.5	4	0.05	1	52.57	0.65	274.2	423.8	300		96	3.09	3.4	3.1	0.66	0.74	28.8	0.66
21.00	20.96	12.2	0.28	-0.11	12.2	2.29	5	110	1.22	0.88	12.4	12.2	2.56	4	2.88	13.3	0.00	13.3	4	0.04	1	50.73	0.63	274.2	452.3	350		133	3.65	4.1	2.8	0.78	0.87	29.5	0.78
21.20	21.09	13.8	0.38	-0.10	13.8	2.75	5	113	1.23	0.88	14.2	13.9	3.03	4	2.87	15.0	0.00	15.0	4	0.04	1	50.43	0.62	274.1	482.8	408		174	4.19	4.6	2.3	0.90	0.99	30.2	0.90
21.30	21.22	15.9	0.44	-0.10	15.9	2.79	5	114	1.24	0.89	16.6	16.1	3.02	4	2.82	17.3	0.00	17.3	4	0.03	1	47.23	0.61	274.1	504.8	453		206	4.90	5.4	2.3	1.05	1.15	30.9	1.05
21.40	21.33	17.6	0.55	-0.16	17.6	3.11	5	116	1.24	0.89	18.3	17.9	3.36	4	2.81	19.0	0.00	19.0	4	0.03	1	46.78	0.61	274.1	529.6	506		229	5.44	6.0	2.1	1.17	1.28	31.4	1.17
21.50	21.46	20.3	0.66	-0.16	20.3	3.24	5	118	1.25	0.89	21.3	20.7	3.45	4	2.77	21.9	0.00	21.9	4	0.03	1	44.30	0.60	274.0	556.5	567		267	6.35	6.9	2.1	1.36	1.48	32.1	1.36
21.70	21.60	29.4	0.84	-0.15	29.4	2.87	5	121	1.26	0.90	31.3	30.3	2.99	4	2.60	31.3	0.00	31.3	4	0.02	1	35.48	0.57	274.0	608.1	693		394	9.38	10.1	2.4	2.01	2.16	33.9	2.01
21.80	21.73	38.3	0.92	-0.24	38.2	2.41	6	122	1.27	0.90	41.0	39.4	2.48	5	2.48	40.3	2.64	100.6	5	0.02	1	29.64	0.55	273.9	643.6	785	611	517	1.05	1.2				35.1	0.02
21.90	21.86	40.5	0.99	-0.45	40.4	2.45	6	123	1.28	0.91	43.2	41.5	2.53	5	2.46	42.4	2.58	103.1	5	0.02	1	29.13	0.55	273.9	657.0	823	637	547	1.12	1.2				35.4	0.02
22.10	21.99	37.6	0.87	-0.53	37.5	2.32	6	121	1.28	0.91	39.8	38.3	2.41	5	2.48	39.4	2.63	99.4	5	0.03	1	29.61	0.55	273.9	636.8	766	598	507	1.02	1.1				35.0	0.02
22.20	22.13	26.4	0.55	-0.60	26.3	2.07	6	117	1.29	0.91	27.3	26.5	2.19	4	2.57	27.8	3.14	86.2	5	0.04	1	33.98	0.58	274.0	561.7	574	465	349	0.91	0.7				33.2	0.01
22.30	22.27	16.6	0.33	-0.62	16.5	1.97	5	112	1.30	0.92	16.6	16.2	2.16	4	2.73	17.6	0.00	17.6	4	0.07	1	42.31	0.61	274.1	486.3	412		213	5.07	5.4	3.3	1.09	1.16	30.9	1.09
22.50	22.40	11.7	0.23	-0.62	11.6	1.93	5	108	1.31	0.92	11.2	11.0	2.20	4	2.88	12.4	0.00	12.4	4	0.10	1	50.81	0.64	274.2	439.1	325		113	3.44	3.7	3.2	0.74	0.79	29.1	0.74
22.60	22.53	8.8	0.20	-0.61	8.7	2.27	4	107	1.31	0.92	7.9	7.9	2.70	3	3.05	9.2	0.00	9.2	3	0.14	1	62.25	0.66	274.2	413.6	283		58	2.45	2.6	2.6	0.52	0.56	27.5	0.52
22.70	22.66	8.0	0.20	-0.60	7.9	2.54	4	107	1.32	0.93	7.2	7.1	3.08	3	3.12	8.4	0.00	8.4	3	0.15	1	67.22	0.67	274.3	410.5	279		47	2.21	2.4	2.3	0.47	0.51	27.0	0.47
22.90	22.78	8.0	0.22	-0.59	7.9	2.79	4	107	1.33	0.93	7.1	7.0	3.40	3	3.15	8.3	0.00	8.3	3	0.15	1	69.38	0.67	274.3	415.7	288		46	2.18	2.3	2.1	0.47	0.50	26.9	0.47
23.00	22.92	14.7	0.25	-0.58	14.6	2.45	5	112	1.33	0.93	14.3	14.0	1.88	4	2.76	15.4	0.00	15.4	4	0.07	1	43.47	0.62	274.1	460.9	371		186	4.44	4.7	3.8	0.95	1.00	30.2	0.95
23.10	23.07	20.0	0.32	-0.58	19.9	2.58	5	116	1.34	0.94	19.9	19.4	1.75	4	2.62	20.8	0.00	20.8	4	0.05	1	36.25	0.60	274.1	499.3	449		260	6.20	6.5	4.1	1.33	1.38	31.8	1.33
23.20	23.18	12.4	0.39	-0.58	12.3	3.13	4	113	1.35	0.94	11.6	11.5	3.54	3	2.99	12.8	0.00	12.8	3	0.09	1	57.53	0.64	274.2	482.6	407		125	3.63	3.8	2.0	0.78	0.82	29.3	0.78
23.40	23.30	11.2	0.40	-0.56	11.1	3.60	4	113	1.36	0.94	10.3	10.3	4.13	3	3.07	11.6	0.00	11.6	3	0.10	1	63.04	0.65	274.2	479.7	403		100	3.24	3.4	1.7	0.70	0.73	28.7	0.70
23.50	23.45	13.8	0.40	-0.56	13.7	2.89	5	113	1.36	0.95	13.1	12.9	3.23	3	2.92	14.2	0.00	14.2	4	0.08	1	53.32	0.63	274.1	492.9	427		159	4.12	4.3	2.2	0.88	0.92	29.8	0.88
23.60	23.58	14.3	0.39	-0.55	14.3	2.75	5	113	1.37	0.95	13.6	13.4	3.06	3	2.89	14.8	0.00	14.8	4	0.08	1	51.60	0.63	274.1	494.8	430		173	4.29	4.5	2.3	0.92	0.96	30.0	0.92
23.80	23.70	14.7	0.37	-0.55	14.6	2.48	5	113	1.38	0.95	13.9	13.7	2.76	4	2.86	15.1	0.00	15.1	4	0.07	1	49.42	0.62	274.1	490.8	421		182	4.42	4.6	2.6	0.95	0.98	30.1	0.95
23.90	23.83	14.8	0.34	-0.54	14.7	2.30	5	112	1.39	0.95	13.9	13.7	2.55	4	2.84	15.1	0.00	15.1	4	0.07	1	48.24	0.62	274.1	485.6	410		183	4.43	4.6	2.8	0.95	0.98	30.1	0.95
24.00	23.96	14.5	0.34	-0.54	14.4	2.34	5	112	1.39	0.96	13.6	13.4	2.61	4	2.85	14.8	0.00	14.8	4	0.07	1	49.15	0.63	274.1	484.7	409		174	4.34	4.5	2.7	0.93	0.96	30.0	0.93
24.20	24.10	14.2	0.34	-0.54	14.1	2.41	5	112	1.40	0.96	13.2	13.0	2.69	4	2.87	14.5	0.00	14.5	4	0.08	1	50.18	0.63	274.1	484.3	408		166	4.23	4.3	2.6	0.91	0.93	29.9	0.91
24.30	24.23	13.8	0.35	-0.54	13.7	2.52	5	112	1.41	0.96	12.8	12.6	2.82	3	2.89	14.0	0.00	14.0	4	0.08	1	51.68	0.63	274.1	484.0	408		155	4.10	4.2	2.5	0.88	0.90	29.7	0.88
24.40	24.35	13.3	0.36	-0.53	13.2	2.72	5	112	1.42	0.97	12.2	12.1	3.06	3	2.93	13.5	0.00	13.5	4	0.08	1	53.95	0.63	274.2	485.3	411		143	3.94	4.0	2.3	0.84	0.86	29.5	0.84
24.50	24.48	13.2	0.38	-0.53	13.1	2.86	5	113	1.42	0.97	12.0	11.9	3.23	3	2.95	13.3	0.00	13.3	3	0.08	1	55.19	0.63	274.2	488.1	416		139	3.89	4.0	2.2	0.83	0.85	29.4	0.83
24.70	24.62	13.0	0.38	-0.53	12.9	2.89	5	112	1.43	0.97	11.8	11.7	3.28	3	2.96	13.1	0.00	13.1	3	0.09	1	55.92	0.64	274.2	487.1	415		134	3.82	3.9	2.2	0.82	0.83	29.3	0.82
24.80	24.75	12.9	0.37	-0.53	12.8	2.84	5	112	1.44	0.98	11.7	11.6	3.22	3	2.96	13.0	0.00	13.0	3	0.09	1	55.81	0.64	274.2	485.5	411		132	3.80	3.9	2.2	0.81	0.83	29.3	0.81
25.00	24.88	12.8	0.38	-0.53	12.7	2.94	4	112	1.45	0.98	11.5	11.4	3.34	3	2.97	12.9	0.00	12.9	3	0.09	1	56.69	0.64	274.2	487.5	415		129	3.77	3.8	2.1	0.81	0.82	29.2	0.81
25.10	25.01	12.9	0.40	-0.53	12.8	3.06	4	113	1.45	0.98	11.6	11.5	3.47	3	2.98	12.9	0.00	12.9	3	0.09	1	57.25	0.64	274.2	492.0	424		131	3.80	3.8	2.0	0.81	0.82	29.3	0.81
25.20	25.14	13.1	0.39	-0.53	13.0	3.01	4	113	1.46	0.99	11.7	11.6	3.41	3	2.97	13.1	0.00	13.1	3	0.09	1	56.65	0.63	274.2	493.2	427		135	3.86	3.9	2.1	0.83	0.83	29.3	0.83
25.30	25.28	12.8	0.38	-0.53	12.7	2.99	4	113	1.47	0.99	11.3	11.3	3.41	3	2.98	12.7	0.00	12.7	3	0.09	1	57.43	0.64	274.2	489.3	419		126	3.74	3.8	2.1	0.80	0.80	29.2	0.80
25.50	25.42	12.3	0.36	-0.53	12.2	2.93	4	112	1.48	0.99	10.7	10.7	3.36	3	3.00	12.2	0.00	12.2	3	0.09	1	58.46	0.64	274.2	482.0	404		114	3.56	3.6	2.1	0.76	0.76	28.9	0.76
25.60	25.55	12.1	0.37	-0.53	12.0	3.02	4	112	1.48	1.00	10.6	10.5	3.47	3	3.01	12.0	0.00	12.0	3	0.10	1	59.42	0.64	274.2	482.9	406		111	3.51	3.5	2.0	0.75	0.75	28.8	0.75
25.70	25.66	12.8	0.39	-0.53	12.7	3.06	4	113	1.49	1.00	11.2	11.2	3.49	3	2.99	12.7	0.00	12.7	3	0.09	1	58.03	0.64	274.2	492.7	425		126	3.75	3.7	2.0	0.80	0.80	29.1	0.80
25.90	25.80	13.9	0.43	-0.53	13.8	3.09	4	114	1.50	1.00	12.3	12.2	3.49	3	2.96	13.7	0.00	13.7	3	0.08	1	56.03	0.63	274.1	505.6	451		150	4.11	4.1	2.0	0.88	0.87	29.6	0.88
26.00	25.93	15.9	0.55	-0.53	15.8	3.48	4	116	1.50	1.01	14.2	14.1	3.86	3	2.94	15.6	0.00	15.6	4	0.07	1	54.46	0.62	274.1	536.6	519		200	4.77	4.7	1.8	1.02	1.01	30.2	1.02
26.10	26.06	27.1	0.60	-0.53	27.0	3.17	5	121	1.51	1.01	25.2	25.0	2.36	4	2.61	26.5	0.00	26.5	4	0.04	1	35.86	0.58	274.0	581.8	634		357	8.50	8.3	3.0	1.82	1.78	33.0	1.82
26.30	26.20	26.5	0.48	-0.53	26.4	2.84	5	119	1.52	1.02	24.5	24.3	1.91	4	2.55	25.8	3.03	83.4	5	0.04	1	33.06	0.58	274.0	554.1	570	453	349	1.02	0.6				32.8	0.01
26.40	26.34	12.6	0.38	-0.53	12.5	3.06	4	113	1.53	1.02	10.8	10.7	3.49	3	3.01	12.3	0.00	12.3	3	0.09	1	59.08	0.64	274.2	491.2	422		118	3.66	3.6	2.0	0.78	0.77	28.9	0.78
26.50	26.47	11.7	0.35	-0.53	11.6	2.97	4	112	1.54	1.02	9.8	9.8	3.45	3	3.04	11.3	0.00	11.3	3	0.10	1	61.07	0.65	274.2	478.6	397		98	3.35	3.3	2.1	0.72	0.70	28.5	0.72
26.70	26.60	11.4	0.32	-0.52	11.3	2.80	4	111	1.54	1.03	9.6	9.5	3.27	3	3.03	11.1	0.00	11.1	3	0.11	1	60.83	0.65	274.2	471.6	383		93	3.26	3.2	2.2	0.70	0.68	28.4	0.70
26.80	26.73	11.1	0.31	-0.52	11.0	2.80	4	111	1.55	1.03	9.2	9.2	3.28	3	3.05	10.8	0.00	10.8	3	0.11	1	61.72	0.65	274.2	468.2	377		87	3.17	3.1	2.2	0.68	0.66	28.2	0.68
26.90	26.87	11.0	0.30	-0.52	10.9	2.72	4	110	1.56	1.03	9.1	9.0	3.20	3	3.05	10.6	0.00	10.6	3	0.11	1	61.80	0.65	274.2	464.8	370		84	3.11	3.0	2.2	0.67	0.65	28.1	0.67
27.00	26.99	11.0	0.29	-0.52	11.0	2.62	5	110	1.56	1.03	9.1	9.1	3.08	3	3.04	10.6	0.00	10.6	3	0.11	1	61.09	0.65	274.2	462.9	366		85	3.13	3.0	2.3	0.67	0.65	28.1	0.67
27.20	27.10	11.3	0.29	-0.52	11.2	2.54	5	110	1.57	1.04	9.3	9.3	2.97	3	3.02	10.8	0.00	10.8	3	0.11	1	59.95	0.65	274.2	463.7	368		89	3.21	3.1	2.4	0.69	0.66	28.2	0.69

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Z_b (ft)	Z_m (ft)	q_c (tsf)	f_s (tsf)	u_2 (tsf)	q_t (tsf)	R_f	SBT	γ (pcf)	σ_{v0} (tsf)	σ_{v0}' (tsf)	Q_t	Q_{tn}	F_R	SBT_n	I_c	q_{c1N}	K_c	$Q_{tn,cs}$	$(SBT)_{Ic}$	B_q	$(SBT)_{Bq}$	F_C (%)	c	R	V_s (ft/s)	G_0 (tsf)	E' (tsf)	M (tsf)	σ_p' (tsf)	OCR	S_t	S_u (tsf)	S_u/σ_{v0}'	φ (°)	c' (tsf)
27.30	27.24	12.1	0.28	-0.52	12.0	2.30	5	110	1.58	1.04	10.0	10.0	2.67	3	2.97	11.5	0.00	11.5	3	0.10	1	56.41	0.65	274.2	466.1	371		104	3.46	3.3	2.7	0.74	0.71	28.6	0.74
27.40	27.37	12.6	0.26	-0.51	12.5	2.09	5	110	1.59	1.04	10.5	10.4	2.41	3	2.93	12.0	0.00	12.0	4	0.10	1	53.72	0.64	274.2	465.4	369		114	3.64	3.5	3.0	0.78	0.75	28.8	0.78
27.60	27.51	12.7	0.25	-0.51	12.7	1.99	5	109	1.59	1.05	10.6	10.6	2.30	4	2.91	12.1	0.00	12.1	4	0.10	1	52.79	0.64	274.2	464.0	366		117	3.69	3.5	3.1	0.79	0.75	28.9	0.79
27.70	27.65	12.8	0.25	-0.51	12.8	1.98	5	109	1.60	1.05	10.6	10.6	2.28	4	2.91	12.2	0.00	12.2	4	0.10	1	52.58	0.64	274.2	465.0	368		118	3.72	3.5	3.1	0.80	0.76	28.9	0.80
27.80	27.78	13.1	0.25	-0.51	13.0	1.89	5	109	1.61	1.05	10.8	10.8	2.17	4	2.89	12.4	0.00	12.4	4	0.09	1	51.42	0.64	274.2	464.3	366		123	3.80	3.6	3.3	0.81	0.77	29.0	0.81
28.00	27.90	13.2	0.28	-0.51	13.1	2.15	5	110	1.61	1.06	10.9	10.9	2.47	3	2.92	12.5	0.00	12.5	4	0.09	1	53.26	0.64	274.2	474.9	387		125	3.82	3.6	2.9	0.82	0.78	29.0	0.82
28.10	28.03	15.2	0.32	-0.51	15.1	2.09	5	112	1.62	1.06	12.8	12.8	2.34	4	2.85	14.4	0.00	14.4	4	0.08	1	48.88	0.63	274.1	492.7	421		172	4.50	4.3	3.0	0.97	0.91	29.8	0.97
28.20	28.16	15.6	0.32	-0.51	15.5	2.02	5	112	1.63	1.06	13.1	13.1	2.27	4	2.83	14.7	0.00	14.7	4	0.08	1	47.90	0.63	274.1	494.3	424		182	4.63	4.4	3.1	0.99	0.93	29.9	0.99
28.40	28.30	15.4	0.35	-0.51	15.3	2.27	5	112	1.64	1.07	12.8	12.8	2.55	4	2.87	14.4	0.00	14.4	4	0.08	1	50.09	0.63	274.1	501.3	439		175	4.55	4.3	2.8	0.97	0.91	29.8	0.97
28.50	28.43	15.4	0.37	-0.51	15.3	2.42	5	113	1.64	1.07	12.8	12.8	2.73	4	2.89	14.4	0.00	14.4	4	0.08	1	51.09	0.63	274.1	507.3	451		175	4.56	4.3	2.6	0.98	0.91	29.8	0.98
28.60	28.56	15.2	0.35	-0.51	15.1	2.30	5	112	1.65	1.07	12.6	12.6	2.60	4	2.88	14.2	0.00	14.2	4	0.08	1	50.75	0.63	274.1	501.8	439		170	4.49	4.2	2.7	0.96	0.90	29.7	0.96
28.70	28.68	13.7	0.34	-0.51	13.6	2.49	5	112	1.66	1.08	11.1	11.1	2.86	3	2.95	12.8	0.00	12.8	4	0.09	1	54.95	0.64	274.2	493.1	423		133	3.99	3.7	2.5	0.85	0.80	29.1	0.85
28.90	28.81	12.2	0.32	-0.51	12.1	2.65	5	111	1.67	1.08	9.6	9.7	3.10	3	3.02	11.3	0.00	11.3	3	0.11	1	59.69	0.65	274.2	481.0	400		100	3.47	3.2	2.3	0.74	0.69	28.4	0.74
29.00	28.94	11.5	0.29	-0.51	11.4	2.49	5	110	1.67	1.08	9.0	9.0	2.94	3	3.03	10.7	0.00	10.7	3	0.11	1	60.59	0.65	274.2	468.8	376		87	3.24	3.0	2.4	0.69	0.64	28.1	0.69
29.20	29.08	10.9	0.27	-0.51	10.9	2.49	5	110	1.68	1.09	8.5	8.5	2.97	3	3.06	10.1	0.00	10.1	3	0.12	1	62.27	0.66	274.2	462.5	364		78	3.06	2.8	2.4	0.66	0.60	27.8	0.66
29.30	29.22	10.8	0.26	-0.51	10.7	2.37	5	109	1.69	1.09	8.3	8.3	2.84	3	3.05	10.0	0.00	10.0	3	0.12	1	62.07	0.66	274.2	457.2	354		75	3.00	2.8	2.5	0.64	0.59	27.7	0.64
29.40	29.34	10.5	0.25	-0.51	10.4	2.36	5	109	1.69	1.09	8.0	8.0	2.84	3	3.06	9.7	0.00	9.7	3	0.13	1	62.95	0.66	274.2	453.8	348		70	2.91	2.7	2.5	0.62	0.57	27.5	0.62
29.50	29.48	10.7	0.23	-0.50	10.6	2.11	5	108	1.70	1.09	8.1	8.2	2.54	3	3.03	9.8	0.00	9.8	3	0.12	1	60.60	0.66	274.2	449.0	339		73	2.97	2.7	2.8	0.64	0.58	27.6	0.64
29.70	29.62	10.9	0.21	-0.50	10.9	1.92	5	108	1.71	1.10	8.3	8.4	2.29	3	3.00	10.0	0.00	10.0	3	0.12	1	58.45	0.66	274.2	445.8	332		76	3.05	2.8	3.1	0.65	0.60	27.7	0.65
29.80	29.75	11.7	0.20	-0.50	11.6	1.69	5	107	1.72	1.10	9.0	9.1	1.99	3	2.94	10.7	0.00	10.7	4	0.11	1	54.45	0.65	274.2	446.7	333		90	3.31	3.0	3.6	0.71	0.65	28.1	0.71
29.90	29.87	12.6	0.19	-0.50	12.6	1.48	5	107	1.72	1.10	9.8	9.9	1.72	4	2.87	11.6	0.00	11.6	4	0.10	1	50.41	0.64	274.2	448.2	334		107	3.61	3.3	4.1	0.77	0.71	28.5	0.77
30.10	29.99	12.7	0.18	-0.50	12.7	1.45	6	107	1.73	1.11	9.9	9.9	1.69	4	2.87	11.6	0.00	11.6	4	0.10	1	50.02	0.64	274.2	448.3	334		109	3.64	3.3	4.2	0.78	0.71	28.6	0.78
30.20	30.12	12.8	0.20	-0.50	12.8	1.59	5	108	1.74	1.11	9.9	10.0	1.85	4	2.89	11.7	0.00	11.7	4	0.10	1	51.13	0.64	274.2	455.4	348		110	3.67	3.3	3.8	0.79	0.71	28.6	0.79
30.30	30.26	13.6	0.21	-0.49	13.5	1.52	6	108	1.74	1.11	10.6	10.6	1.76	4	2.85	12.3	0.00	12.3	4	0.10	1	49.01	0.64	274.2	459.9	355		125	3.91	3.5	4.0	0.84	0.76	28.9	0.84
30.50	30.40	14.4	0.21	-0.49	14.4	1.46	6	108	1.75	1.12	11.3	11.4	1.68	4	2.82	13.1	0.00	13.1	4	0.09	1	46.90	0.63	274.2	465.9	366		144	4.20	3.8	4.2	0.90	0.81	29.2	0.90
30.60	30.52	14.0	0.22	-0.50	13.9	1.54	6	108	1.76	1.12	10.9	11.0	1.77	4	2.84	12.7	0.00	12.7	4	0.09	1	48.48	0.64	274.2	465.3	365		133	4.05	3.7	4.0	0.87	0.78	29.0	0.87
30.70	30.65	12.6	0.22	-0.50	12.6	1.78	5	109	1.77	1.12	9.6	9.7	2.08	4	2.92	11.4	0.00	11.4	4	0.11	1	53.52	0.65	274.2	461.7	360		105	3.60	3.2	3.4	0.77	0.69	28.4	0.77
30.90	30.79	12.8	0.23	-0.49	12.7	1.82	5	109	1.77	1.12	9.7	9.8	2.13	4	2.93	11.5	0.00	11.5	4	0.10	1	53.60	0.64	274.2	465.0	366		107	3.64	3.3	3.3	0.78	0.70	28.5	0.78
31.00	30.93	12.9	0.24	-0.49	12.8	1.89	5	109	1.78	1.13	9.8	9.9	2.21	3	2.93	11.6	0.00	11.6	4	0.10	1	53.91	0.64	274.2	469.4	374		109	3.69	3.3	3.2	0.79	0.71	28.5	0.79
31.10	31.05	13.1	0.25	-0.49	13.0	1.92	5	109	1.79	1.13	9.9	10.0	2.25	3	2.93	11.7	0.00	11.7	4	0.10	1	53.92	0.64	274.2	472.5	380		112	3.74	3.3	3.2	0.80	0.71	28.6	0.80
31.30	31.19	13.4	0.27	-0.49	13.3	2.03	5	110	1.79	1.13	10.1	10.2	2.37	3	2.93	12.0	0.00	12.0	4	0.10	1	54.19	0.64	274.2	479.8	394		117	3.83	3.4	3.0	0.82	0.73	28.7	0.82
31.40	31.31	13.8	0.29	-0.49	13.7	2.08	5	111	1.80	1.14	10.5	10.6	2.41	3	2.93	12.3	0.00	12.3	4	0.10	1	53.68	0.64	274.2	486.1	406		126	3.97	3.5	2.9	0.85	0.76	28.9	0.85
31.50	31.44	14.4	0.31	-0.49	14.3	2.14	5	111	1.81	1.14	11.0	11.1	2.47	3	2.92	12.8	0.00	12.8	4	0.09	1	52.99	0.64	274.2	494.4	423		138	4.17	3.7	2.9	0.89	0.79	29.1	0.89
31.60	31.58	15.0	0.33	-0.49	14.9	2.18	5	112	1.82	1.14	11.4	11.5	2.49	4	2.90	13.3	0.00	13.3	4	0.09	1	52.21	0.63	274.2	501.6	437		151	4.36	3.8	2.8	0.93	0.82	29.3	0.93
31.80	31.71	15.9	0.34	-0.49	15.8	2.15	5	112	1.82	1.15	12.2	12.3	2.45	4	2.88	14.1	0.00	14.1	4	0.08	1	50.48	0.63	274.1	509.8	454		173	4.66	4.1	2.9	1.00	0.88	29.6	1.00
31.90	31.83	17.5	0.35	-0.49	17.4	2.01	6	113	1.83	1.15	13.6	13.7	2.26	4	2.82	15.5	0.00	15.5	4	0.07	1	47.04	0.62	274.1	518.9	472		214	5.20	4.6	3.1	1.11	0.98	30.1	1.11
32.10	31.98	18.5	0.38	-0.49	18.4	2.08	6	114	1.84	1.15	14.4	14.5	2.32	4	2.80	16.3	0.00	16.3	4	0.07	1	46.23	0.62	274.1	530.1	496		232	5.52	4.8	3.1	1.18	1.04	30.4	1.18
32.20	32.12	19.9	0.45	-0.49	19.8	2.29	5	115	1.85	1.16	15.5	15.7	2.53	4	2.80	17.5	0.00	17.5	4	0.07	1	45.89	0.61	274.1	549.9	540		251	5.99	5.2	2.8	1.28	1.12	30.8	1.28
32.30	32.24	21.1	0.45	-0.49	21.0	2.14	6	115	1.85	1.16	16.5	16.7	2.36	4	2.76	18.5	0.00	18.5	4	0.06	1	43.67	0.61	274.1	553.6	548		268	6.37	5.6	3.0	1.37	1.20	31.1	1.37
32.40	32.36	23.4	0.42	-0.48	23.4	1.79	6	115	1.86	1.16	18.5	18.8	1.94	4	2.67	20.6	0.00	20.6	4	0.05	1	38.87	0.60	274.1	554.7	549		301	7.16	6.3	3.7	1.54	1.34	31.6	1.54
32.60	32.49	24.5	0.41	-0.48	24.4	1.69	6	115	1.87	1.17	19.3	19.7	1.84	4	2.64	21.4	0.00	21.4	4	0.05	1	37.41	0.60	274.0	557.6	555		315	7.50	6.6	3.9	1.61	1.41	31.8	1.61
32.70	32.62	24.6	0.42	-0.47	24.5	1.73	6	115	1.88	1.17	19.3	19.7	1.87	4	2.65	21.5	0.00	21.5	4	0.05	1	37.63	0.59	274.0	560.1	561		316	7.53	6.6	3.8	1.61	1.41	31.8	1.61
32.80	32.76	28.2	0.50	-0.47	28.1	1.77	6	117	1.88	1.17	22.4	22.9	1.90	4	2.55	24.6	3.04	81.9	5	0.05	1	33.13	0.58	274.0	569.4	587	478	367	1.17	0.5				32.6	0.01
33.00	32.89	31.9	0.59	-0.47	31.8	1.86	6	118	1.89	1.18	25.4	26.1	1.99	4	2.52	27.9	2.87	85.5	5	0.04	1	31.71	0.58	274.0	596.4	653	524	419	1.18	0.6				33.2	0.01
33.10	33.02	30.1	0.62	-0.47	30.0	2.05	6	118	1.90	1.18	23.8	24.4	2.20	4	2.61	26.2	0.00	26.2	4	0.04	1	35.94	0.58	274.0	611.6	688		394	9.37	8.1	3.2	2.01	1.74	32.9	2.01
33.20	33.15	24.9	0.56	-0.47	24.8	2.27	6	117	1.91	1.18	19.3	19.7	2.45	4	2.71	21.5	0.00	21.5	4	0.05	1	41.14	0.59	274.0	587.9	629		320	7.62	6.6	2.9	1.63	1.41	31.8	1.63
33.40	33.29	20.4	0.52	-0.47	20.3	2.56	5	116	1.91	1.19	15.5	15.8	2.83	4	2.83	17.6	0.00	17.6	4	0.07	1	47.58	0.61	274.1	567.4	581		258	6.14	5.3	2.5	1.32	1.13	30.8	1.32
33.50	33.41	18.5	0.48	-0.47	18.4	2.59	5	115	1.92	1.19	13.8	14.0	2.90	4	2.87	15.9	0.00	15.9	4	0.07	1	50.37	0.62	274.1	552.6	547		231	5.49	4.7	2.4	1.18	1.00	30.2	1.18
33.60	33.54	18.6	0.47	-0.47	18.5	2.53	5	115	1.93	1.19	13.9	14.1	2.84	4	2.87	16.0	0.00	16.0	4	0.07	1	49.98	0.62	274.1	551.8	545		232	5.52	4.7	2.5	1.18	1.01	30.2	1.18
33.70	33.67	18.2	0.48	-0.47	18.1	2.63	5	115	1.94	1.20	13.5	13.7	2.95	3	2.89	15.6	0.00	15.6	4	0.07	1	51.16	0.62	274.1	551.9	545		222	5.39	4.6	2.4	1.15	0.98	30.1	1.15
33.90	33.79	17.5	0.47	-0.47	17.4	2.71	5	115	1.94	1.20	12.9	13.1	3.07	3	2.91	15.0	0.00	15.0	4	0.08	1	52.78	0.62	274.1	548.9	538		202	5.16	4.4	2.3	1.11	0.93	29.9	1.11
34.00	33.93	17.5	0.49	-0.47	17.4	2.78	5	115	1.95	1.21	12.8	13.0	3.15	3	2.92	14.9	0.00	14.9	4	0.08	1	53.28	0.62	274.1	551.5	544		202	5.16	4.3	2.3	1.10	0.93	29.9	1.10
34.10	34.08	17.5	0.50	-0.47	17.4	2.88	5	115	1.96	1.21	12.8	13.0	3.26	3	2.93	14.9	0.00	14.9	4	0.08	1	53.96	0.62	274.1	555.1	553		201	5.15	4.3	2.2	1.10	0.93	29.8	1.10
34.30	34.20	17.9	0.52	-0.46	17.9	2.90	5	116	1.97	1.21	13.1	13.3	3.27	3	2.92	15.2	0.00	15.2	4	0.08	1	53.44	0.62	274.1	560.0	564		212	5.30	4.4	2.2	1.14	0.95	30.0	1.14
34.40	34.32	19.4	0.54	-0.46	19.3	2.78	5	116	1.97	1.22	14.3	14.5	3.11	3	2.88	16.5	0.00	16.5	4	0.07	1	50.78	0.62	274.1	569.4	586		243	5.78	4.8	2.3	1.24	1.04	30.4	1.24
34.50	34.47	20.4	0.58	-0.46	20.3	2.84	5	117	1.98	1.22	15.1	15.3	3.16	4	2.87	17.3	0.00	17.3	4	0.07	1	49.86	0.61	274.1	580.3	612		257	6.12	5.1	2.3	1.31	1.10	30.6	1.31
34.60	34.60	20.7	0.61	-0.46	20.6	2.95	5	117	1.99	1.22	15.2	15.5	3.28	3	2.87	17.4	0.00	17.4	4	0.07	1	50.26	0.61	274.1	586.4	627		260	6.20	5.2	2.2	1.33	1.11	30.7	1.33
34.80	34.72	21.4	0.63	-0.46	21.4	2.95	5	118	2.00	1.23	15.8	16.1	3.27	4	2.86	18.1	0.00	18.1	4	0.06	1	49.42	0.61	274.1	593.2	644		271	6.46	5.4	2.2	1.38	1.15	30.9	1.38
34.90	34.85	22.4	0.62	-0.46	22.3	2.78	5	118	2.01	1.23	16.5	16.8	3.07	4	2.83	18.8	0.00	18.8	4	0.06	1	47.53	0.60	274.1	595.0	647		284	6.76	5.6	2.3	1.45	1.20	31.1	1.45
35.10	34.98	22.6	0.63	-0.46	22.5	2.77	5	118	2.01	1.23	16.6	17.0	3.06	4	2.82	18.9	0.00	18.9	4	0.06	1	47.34	0.60	274.1	596.5	651		287	6.82	5.7	2.3	1.46	1.21	31.1	1.46
35.20	35.11	22.1	0.61	-0.46	22.0	2.74	5	117	2.02	1.24	16.1	16.5	3.03	4	2.83	18.5	0.00	18.5	4	0.06	1	47.78	0.61	274.1	592.1	640		280	6.66	5.5	2.3	1.43	1.18	31.0	1.43
35.30	35.24	21.1	0.57	-0.46	21.0	2.70	5	117	2.03	1.24	15.3	15.6	3.00	4	2.85	17.6	0.00	17.6	4	0.07	1	48.71	0.61	274.1	582.8	617		266	6.32	5.2	2.4	1.36	1.12	30.7	1.36
35.40	35.38	20.5	0.58	-0.46	20.4	2.83	5	117	2.04	1.24	14.8	15.1	3.16	3	2.87	17.1	0.00	17.1	4	0.07	1	50.26	0.61	274.1	583.3	618		258	6.13	5.0	2.2	1.31	1.08	30.6	1.31
35.60	35.50	20.8	0.63	-0.46	20.7	3.00	5	117	2.04	1.25	15.0	15.3	3.35	3	2.88	17.3	0.00	17.3	4	0.07	1	50.91	0.61	274.1	591.8	640		262	6.23	5.1	2.1	1.33	1.09	30.6	1.33
35.70	35.65	21.2	0.63	-0.46	21.1	2.99	5	118	2.05	1.25	15.2	15.6	3.33	3	2.88	17.6	0.00	17.6	4	0.07	1	50.46	0.61	274.1	595.1	647		267	6.36	5.2	2.1	1.36	1.11	30.7	1.36
35.80	35.78	20.9	0.68	-0.46	20.8	3.24	5	118	2.06	1.26	14.9	15.3	3.60	3	2.90	17.3	0.00	17.3	4	0.07	1	52.17	0.61	274.1	600.8	662		263	6.26	5.1	2.0	1.34	1.09	30.6	1.34
36.00	35.90	20.7	0.73	-0.45	20.6	3.51	5	119	2.07	1.26	14.7	15.0	3.91	3	2.93	17.1	0.00	17.1	4	0.07	1	53.85	0.61	274.1	607.6	681		260	6.19	5.0	1.8	1.33	1.07	30.5	1.33
36.10	36.04	22.2	0.75	-0.45	22.1	3.38	5	119	2.08	1.26	15.9	16.2	3.75	3	2.89	18.2	0.00	18.2	4	0.06	1	51.56	0.61	274.1	616.7	703		280	6.67	5.4	1.9	1.43	1.16	30.9	1.43
36.20	36.17	24.6	0.83	-0.45	24.5	3.37	5	120	2.08	1.27	17.7	18.1	3.70	3	2.85	20.2	0.00	20.2	4	0.06	1	49.08	0.60	274.1	635.6	754		313	7.46	6.0	1.9	1.60	1.29	31.4	1.60

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Z_b (ft)	Z_m (ft)	q_c (tsf)	f_s (tsf)	u_2 (tsf)	q_t (tsf)	R_f	SBT	γ (pcf)	σ_{v0} (tsf)	σ_{v0}' (tsf)	Q_t	Q_{tn}	F_R	SBT_n	I_c	q_{c1N}	K_c	$Q_{tn,cs}$	$(SBT)_{Ic}$	B_q	$(SBT)_{Bq}$	F_C (%)	c	R	V_s (ft/s)	G_0 (tsf)	E' (tsf)	M (tsf)	σ_p' (tsf)	OCR	S_t	S_u (tsf)	S_u/σ_{v0}'	φ (°)	c' (tsf)
36.40	36.30	25.4	0.94	-0.45	25.4	3.70	5	121	2.09	1.27	18.3	18.8	4.05	3	2.87	20.8	0.00	20.8	4	0.05	1	49.87	0.60	274.1	653.2	803		326	7.75	6.3	1.8	1.66	1.34	31.6	1.66
36.50	36.44	26.5	0.94	-0.45	26.4	3.54	5	121	2.10	1.27	19.1	19.6	3.86	3	2.84	21.7	0.00	21.7	4	0.05	1	48.23	0.59	274.0	656.5	812		341	8.11	6.5	1.8	1.74	1.40	31.8	1.74
36.60	36.57	26.3	0.86	-0.45	26.2	3.27	5	121	2.11	1.28	18.9	19.4	3.57	4	2.82	21.5	0.00	21.5	4	0.05	1	47.21	0.59	274.0	646.7	783		338	8.04	6.5	2.0	1.72	1.39	31.8	1.72
36.80	36.69	24.1	0.82	-0.45	24.0	3.42	5	120	2.11	1.28	17.1	17.5	3.76	3	2.87	19.6	0.00	19.6	4	0.06	1	50.07	0.60	274.1	634.8	751		306	7.29	5.8	1.9	1.56	1.25	31.3	1.56
36.90	36.83	23.5	1.01	-0.45	23.5	4.30	4	121	2.12	1.29	16.6	16.9	4.75	3	2.94	19.1	0.00	19.1	4	0.06	1	54.72	0.60	274.1	656.9	814		299	7.11	5.6	1.5	1.52	1.21	31.1	1.52
37.00	36.96	27.1	1.37	-0.45	27.1	5.04	3	124	2.13	1.29	19.3	19.8	5.50	3	2.93	22.0	0.00	22.0	4	0.05	1	54.19	0.59	274.0	706.5	962		349	8.31	6.6	1.3	1.78	1.41	31.9	1.78
37.20	37.08	43.7	2.01	-0.44	43.6	4.63	4	128	2.14	1.29	32.0	33.2	4.84	4	2.74	35.9	0.00	35.9	4	0.03	1	42.42	0.56	273.9	803.5	1,286		580	13.82	11.1	1.5	2.96	2.37	34.3	2.96
37.30	37.22	73.6	2.18	-0.44	73.5	3.00	6	130	2.15	1.30	55.0	58.1	3.06	5	2.39	61.5	2.25	125.5	5	0.02	1	25.95	0.52	273.8	845.8	1,447	1,055	999	1.98	1.5				37.0	0.04
37.40	37.36	106.7	2.31	-0.43	106.7	2.19	7	132	2.16	1.30	80.2	86.1	2.21	5	2.18	90.5	1.60	151.8	5	0.01	1	18.19	0.49	273.8	894.5	1,636	1,180	2,360	2.92	2.2				38.9	0.06
37.50	37.48	142.3	2.34	-0.43	142.2	1.65	8	132	2.16	1.31	107.2	116.4	1.67	6	2.00	122.2	1.29	169.9	6	0.01	1	13.01	0.47	273.7	927.9	1,770	1,269	2,539	3.82	2.9				40.3	0.08
37.70	37.61	145.1	2.42	-0.44	145.0	1.67	8	133	2.17	1.31	108.9	118.5	1.69	6	2.00	124.5	1.29	172.3	6	0.01	1	12.96	0.47	273.7	935.9	1,805	1,292	2,583	3.88	3.0				40.4	0.08
37.80	37.76	124.6	2.49	-0.46	124.5	2.01	7	132	2.18	1.32	92.9	100.5	2.03	5	2.10	105.9	1.45	164.5	5	0.01	1	15.94	0.48	273.7	925.3	1,762	1,262	2,525	3.38	2.6				39.6	0.07
37.90	37.88	92.3	2.06	-0.51	92.2	2.23	7	130	2.19	1.32	68.1	73.2	2.29	5	2.23	77.1	1.74	138.8	5	0.02	1	20.12	0.50	273.8	861.0	1,500	1,093	1,260	2.52	1.9				38.1	0.05
38.10	38.00	54.8	1.22	-0.55	54.7	2.23	6	125	2.20	1.32	39.6	42.1	2.33	5	2.40	44.6	2.31	104.4	5	0.03	1	26.56	0.54	273.9	732.2	1,041	791	734	1.39	1.1				35.5	0.03
38.20	38.13	31.3	1.15	-0.55	31.2	3.71	5	123	2.21	1.33	21.8	22.6	3.97	4	2.80	24.9	0.00	24.9	4	0.05	1	46.13	0.58	274.0	700.4	939		406	9.66	7.5	1.8	2.07	1.61	32.5	2.07
38.30	38.27	27.6	1.12	-0.53	27.5	4.12	4	123	2.22	1.33	18.9	19.5	4.42	3	2.88	21.8	0.00	21.8	4	0.06	1	50.68	0.59	274.0	686.4	898		354	8.42	6.5	1.6	1.80	1.39	31.8	1.80
38.50	38.40	42.8	1.26	-0.52	42.8	3.01	6	125	2.22	1.34	30.3	31.8	3.10	4	2.62	34.3	0.00	34.3	4	0.03	1	36.51	0.56	273.9	739.6	1,061		567	13.51	10.6	2.3	2.89	2.27	34.1	2.89
38.60	38.53	76.9	1.46	-0.51	76.8	2.01	7	128	2.23	1.34	55.6	59.9	1.96	5	2.25	63.1	1.77	122.0	5	0.02	1	20.56	0.52	273.8	789.8	1,237	920	1,044	2.07	1.5				37.2	0.04
38.70	38.66	80.3	1.51	-0.52	80.2	2.10	7	128	2.24	1.35	57.9	62.6	1.94	5	2.23	65.9	1.73	124.7	5	0.02	1	20.00	0.51	273.8	799.3	1,275	942	1,091	2.17	1.6				37.4	0.04
38.90	38.79	56.6	1.39	-0.52	56.5	2.96	6	127	2.25	1.35	40.2	42.8	2.56	5	2.42	45.6	2.40	106.2	5	0.03	1	27.42	0.54	273.9	754.2	1,127	839	759	1.44	1.1				35.6	0.03
39.00	38.92	48.4	0.90	-0.53	48.3	2.43	6	124	2.26	1.35	34.0	36.4	1.96	5	2.40	38.6	2.30	96.7	5	0.03	1	26.43	0.55	273.9	684.8	906	691	645	1.35	0.9				34.8	0.02
39.10	39.07	38.5	0.68	-0.53	38.4	2.56	6	122	2.27	1.36	26.6	28.3	1.87	5	2.47	30.3	2.59	87.6	5	0.04	1	29.24	0.57	274.0	632.4	761	590	505	1.36	0.6				33.6	0.02
39.30	39.20	33.4	0.68	-0.52	33.3	3.32	5	123	2.27	1.36	22.7	24.0	2.18	4	2.63	26.1	0.00	26.1	4	0.05	1	36.65	0.58	274.0	648.0	803		434	10.33	8.0	3.3	2.21	1.71	32.8	2.21
39.40	39.33	19.4	0.93	-0.52	19.3	4.76	3	120	2.28	1.37	12.5	12.7	5.44	3	3.08	15.0	0.00	15.0	3	0.08	1	63.76	0.62	274.1	638.7	762		216	5.68	4.2	1.3	1.22	0.91	29.7	1.22
39.50	39.47	28.6	1.41	-0.52	28.5	5.04	3	125	2.29	1.37	19.1	19.7	5.37	3	2.93	22.1	0.00	22.1	4	0.05	1	53.97	0.59	274.0	722.8	1,012		367	8.74	6.6	1.3	1.87	1.41	31.8	1.87
39.60	39.59	50.7	1.72	-0.51	50.6	3.43	5	127	2.30	1.37	35.1	37.1	3.56	4	2.62	40.1	0.00	40.1	4	0.03	1	36.11	0.55	273.9	803.2	1,278		676	16.09	12.4	2.0	3.45	2.65	34.9	3.45
39.80	39.71	122.9	1.78	-0.50	122.8	1.51	8	130	2.31	1.38	87.4	96.8	1.48	6	2.02	101.9	1.32	148.8	6	0.01	1	13.44	0.48	273.7	869.2	1,528	1,114	2,228	3.33	2.4				39.4	0.07
39.90	39.84	230.1	1.96	-0.50	230.0	0.86	9	132	2.31	1.38	164.7	188.0	0.86	6	1.66	199.0	1.01	199.0	6	0.01	1	5.37	0.44	273.6	952.1	1,863	1,337	2,673	5.76	4.2				42.6	0.12
40.00	39.97	292.3	2.18	-0.50	292.2	0.75	9	134	2.32	1.39	208.9	239.3	0.75	6	1.54	257.2	1.00	257.2	6	0.00	1	3.48	0.42	273.6	998.9	2,071	1,471	2,942	6.94	5.0				43.8	0.14
40.20	40.11	304.8	2.30	-0.50	304.7	0.75	9	134	2.33	1.39	217.1	249.1	0.76	6	1.54	267.9	1.00	267.9	6	0.00	1	3.35	0.42	273.5	1,014.4	2,144	1,517	3,035	7.17	5.1				44.0	0.14
40.30	40.25	310.7	2.43	-0.50	310.6	0.78	9	135	2.34	1.40	220.6	253.5	0.79	6	1.54	272.8	1.00	272.8	6	0.00	1	3.45	0.41	273.5	1,028.5	2,212	1,560	3,120	7.28	5.2				44.0	0.15
40.40	40.37	305.0	2.59	-0.50	304.9	0.85	9	135	2.35	1.40	215.8	248.4	0.86	6	1.57	267.6	1.00	267.6	6	0.00	1	3.93	0.42	273.5	1,039.4	2,266	1,593	3,186	7.18	5.1				43.9	0.14
40.60	40.50	296.5	2.57	-0.50	296.4	0.87	9	135	2.36	1.41	209.0	241.0	0.87	6	1.59	259.9	1.00	259.9	6	0.00	1	4.18	0.42	273.6	1,034.9	2,244	1,579	3,158	7.03	5.0				43.8	0.14
40.70	40.63	299.7	2.83	-0.50	299.6	0.94	9	136	2.37	1.41	210.6	243.2	0.95	6	1.61	262.5	1.00	262.5	6	0.00	1	4.59	0.42	273.5	1,056.9	2,353	1,647	3,294	7.09	5.0				43.8	0.14
40.80	40.75	315.9	3.33	-0.51	315.8	1.05	9	137	2.38	1.42	221.4	256.1	1.06	6	1.63	276.5	1.00	276.5	6	0.00	1	4.95	0.41	273.5	1,100.0	2,575	1,784	3,569	7.38	5.2				44.1	0.15
41.00	40.89	322.0	3.60	-0.56	321.9	1.12	9	138	2.38	1.42	224.9	260.4	1.13	6	1.65	281.5	1.00	281.5	6	0.00	1	5.21	0.41	273.5	1,121.2	2,688	1,854	3,707	7.49	5.3				44.2	0.15
41.10	41.03	296.5	2.28	-0.61	296.4	0.76	9	134	2.39	1.43	206.1	239.3	0.77	6	1.55	258.9	1.00	258.9	6	0.01	1	3.62	0.42	273.6	1,011.7	2,129	1,509	3,018	7.05	4.9				43.8	0.14
41.20	41.16	265.2	1.70	-0.64	265.1	0.64	9	131	2.40	1.43	183.6	213.5	0.65	6	1.54	229.5	1.00	229.5	6	0.01	1	3.35	0.43	273.6	945.5	1,826	1,318	2,636	6.47	4.5				43.2	0.13
41.40	41.29	234.7	1.72	-0.66	234.6	0.73	9	131	2.41	1.44	161.8	188.4	0.74	6	1.61	200.7	1.00	200.7	6	0.01	1	4.60	0.44	273.6	934.4	1,781	1,287	2,575	5.88	4.1				42.6	0.12
41.50	41.42	211.0	1.85	-0.66	210.9	0.88	9	132	2.42	1.44	144.8	168.0	0.89	6	1.70	178.5	1.03	178.5	6	0.01	1	6.15	0.44	273.6	935.8	1,790	1,291	2,583	5.39	3.7				42.1	0.11
41.60	41.55	201.5	2.47	-0.68	201.4	1.23	9	134	2.43	1.44	137.7	158.3	1.24	6	1.82	169.5	1.12	174.8	6	0.01	1	8.54	0.45	273.6	985.1	2,014	1,431	2,862	5.17	3.6				41.8	0.10
41.80	41.69	193.7	3.19	-0.69	193.6	1.65	8	135	2.44	1.45	131.9	150.2	1.67	6	1.93	162.2	1.21	198.0	6	0.01	1	11.02	0.45	273.6	1,032.7	2,244	1,573	3,145	5.00	3.4				41.5	0.10
41.90	41.82	191.0	3.76	-0.70	190.9	1.97	8	137	2.45	1.45	129.6	146.9	2.00	6	1.99	159.5	1.28	210.6	6	0.01	1	12.66	0.45	273.6	1,067.5	2,419	1,680	3,360	4.93	3.4				41.4	0.10
42.00	41.93	205.3	3.90	-0.72	205.2	1.90	8	137	2.45	1.46	139.0	158.3	1.92	6	1.96	172.4	1.24	217.8	6	0.01	1	11.82	0.45	273.6	1,085.0	2,508	1,736	3,472	5.24	3.6				41.8	0.10
42.10	42.07	231.0	3.22	-0.78	230.9	1.40	8	136	2.46	1.46	156.1	180.3	1.41	6	1.82	195.8	1.12	201.9	6	0.01	1	8.58	0.44	273.6	1,056.6	2,358	1,646	3,293	5.79	4.0				42.4	0.12
42.30	42.20	249.1	2.53	-0.79	249.0	1.02	9	134	2.47	1.47	167.9	196.6	1.03	6	1.70	212.4	1.03	212.4	6	0.01	1	6.08	0.43	273.6	1,015.3	2,151	1,520	3,040	6.17	4.2				42.8	0.12
42.40	42.34	268.2	2.29	-0.80	268.1	0.85	9	134	2.48	1.47	180.3	212.7	0.86	6	1.62	230.2	1.00	230.2	6	0.01	1	4.72	0.43	273.6	1,004.2	2,095	1,487	2,974	6.55	4.4				43.2	0.13
42.50	42.47	263.8	2.17	-0.80	263.6	0.82	9	133	2.49	1.48	176.7	208.8	0.83	6	1.62	225.8	1.00	225.8	6	0.01	1	4.62	0.43	273.6	991.9	2,037	1,451	2,901	6.47	4.4				43.1	0.13
42.70	42.60	246.2	1.88	-0.80	246.1	0.76	9	132	2.50	1.48	164.3	194.5	0.77	6	1.62	209.1	1.00	209.1	6	0.01	1	4.61	0.43	273.6	957.7	1,882	1,352	2,705	6.13	4.1				42.8	0.12
42.80	42.73	227.2	1.62	-0.80	227.0	0.71	9	131	2.51	1.49	151.0	179.0	0.72	6	1.62	191.1	1.00	191.1	6	0.01	1	4.74	0.44	273.6	923.9	1,734	1,259	2,517	5.75	3.9				42.4	0.11
42.90	42.86	219.4	1.63	-0.80	219.3	0.74	9	131	2.52	1.49	145.4	172.5	0.75	6	1.65	183.8	1.00	183.8	6	0.01	1	5.14	0.44	273.6	921.3	1,723	1,251	2,503	5.59	3.7				42.2	0.11
43.10	43.00	211.6	1.81	-0.80	211.4	0.86	9	131	2.53	1.50	139.6	165.0	0.87	6	1.70	176.3	1.03	176.3	6	0.01	1	6.12	0.44	273.6	935.9	1,788	1,291	2,583	5.42	3.6				42.0	0.11
43.20	43.13	203.9	2.06	-0.80	203.8	1.01	9	132	2.53	1.50	134.1	157.7	1.03	6	1.76	169.1	1.07	169.2	6	0.01	1	7.34	0.45	273.6	955.6	1,877	1,346	2,693	5.25	3.5				41.8	0.10
43.30	43.26	202.9	2.66	-0.79	202.7	1.31	8	134	2.54	1.51	133.0	155.2	1.33	6	1.84	167.9	1.13	179.4	6	0.01	1	9.09	0.45	273.6	1,003.7	2,100	1,485	2,971	5.21	3.5				41.7	0.10
43.50	43.40	209.2	2.97	-0.79	209.0	1.42	8	135	2.55	1.51	136.7	159.5	1.44	6	1.86	173.5	1.15	190.5	6	0.01	1	9.49	0.45	273.6	1,030.7	2,230	1,567	3,133	5.35	3.5				41.8	0.11
43.60	43.52	219.2	3.10	-0.80	219.1	1.41	8	135	2.56	1.51	142.9	167.3	1.43	6	1.85	182.5	1.14	195.1	6	0.01	1	9.14	0.44	273.6	1,045.3	2,300	1,611	3,222	5.56	3.7				42.1	0.11
43.70	43.65	222.2	2.90	-0.80	222.1	1.30	9	135	2.57	1.52	144.5	169.8	1.32	6	1.82	185.0	1.11	189.9	6	0.01	1	8.49	0.44	273.6	1,032.9	2,239	1,573	3,147	5.63	3.7				42.1	0.11
43.90	43.78	226.6	2.41	-0.81	226.5	1.07	9	134	2.58	1.52	146.9	174.3	1.08	6	1.75	188.9	1.06	188.9	6	0.01	1	7.04	0.44	273.6	998.6	2,072	1,470	2,941	5.73	3.8				42.3	0.11
44.00	43.91	223.1	2.25	-0.81	222.9	1.01	9	133	2.59	1.53	144.1	171.4	1.02	6	1.74	185.4	1.06	185.4	6	0.01	1	6.81	0.44	273.6	983.4	2,001	1,426	2,852	5.66	3.7				42.2	0.11
44.10	44.03	223.8	2.16	-0.81	223.7	0.97	9	133	2.59	1.53	144.2	172.0	0.98	6	1.72	185.9	1.05	185.9	6	0.01	1	6.54	0.44	273.6	976.4	1,968	1,406	2,811	5.68	3.7				42.2	0.11
44.20	44.16	227.0	2.04	-0.81	226.8	0.90	9	132	2.60	1.54	145.8	174.7	0.91	6	1.70	188.5	1.03	188.5	6	0.01	1	6.05	0.44	273.6	967.4	1,926	1,380	2,760	5.75	3.7				42.3	0.12
44.40	44.30	231.8	2.62	-0.80	231.6	1.13	9	134	2.61	1.54	148.5	176.8	1.14	6	1.76	192.7	1.07	192.8	6	0.01	1	7.31	0.44	273.6	1,018.3	2,165	1,529	3,058	5.84	3.8				42.3	0.12
44.50	44.44	231.3	2.66	-0.81	231.2	1.15	9	134	2.62	1.55	147.7	176.0	1.17	6	1.77	192.1	1.08	192.1	6	0.01	1	7.46	0.44	273.6	1,022.1	2,183	1,540	3,081	5.83	3.8				42.3	0.12
44.60	44.58	239.5	2.69	-0.80	239.3	1.12	9	135	2.63	1.55	152.5	182.3	1.14	6	1.75	199.4	1.07	199.4	6	0.01	1	7.10	0.44	273.6	1,028.6	2,214	1,560	3,120	6.01	3.9				42.5	0.12
44.80	44.70	253.5	2.81	-0.80	253.4	1.11	9	135	2.64	1.56	161.0	193.3	1.12	6	1.73	212.2	1.05	212.2	6	0.01	1	6.68	0.43	273.6	1,044.5	2,291	1,609	3,217	6.29	4.0				42.7	0.13
44.90	44.83	282.5	2.60	-0.80	282.3	0.92	9	135	2.65	1.56	179.1	217.6	0.93	6	1.64	239.3	1.00	239.3	6	0.01	1	5.01	0.43	273.6	1,041.3	2,272	1,599	3,198	6.87	4.4				43.3	0.14
45.00	44.98	298.1	2.25	-0.80	298.0	0.76	9	134	2.66	1.57	188.4	229.3	0.76	6	1.56	254.0	1.00	254.0	6	0.01	1	3.74	0.42	273.6	1,019.0	2,160	1,531	3,062	7.17	4.6				43.6	0.14
45.20	45.10	289.5	1.97	-0.80	289.4	0.68	9	133	2.67	1.57	182.5	222.3	0.69	6	1.54	245.5	1.00	245.5	6	0.01	1	3.41	0.42	273.6	990.5	2,024	1,447	2,893	7.01	4.5				43.4	0.14
45.30	45.22	278.9	1.85	-0.80	278.8	0.66	9	132	2.67	1.58	175.2	213.8	0.67	6	1.54	235.3	1.00	235.3	6	0.01	1	3.49	0.43	273.6	975.2	1,954	1,402	2,804	6.81	4.3				43.2	0.14

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Z_b (ft)	Z_m (ft)	q_c (tsf)	f_s (tsf)	u_2 (tsf)	q_t (tsf)	R_f	SBT	γ (pcf)	σ_{v0} (tsf)	σ_{v0}' (tsf)	Q_t	Q_{tn}	F_R	SBT_n	I_c	q_{c1N}	K_c	$Q_{tn,cs}$	$(SBT)_{Ic}$	B_q	$(SBT)_{Bq}$	F_C (%)	c	R	V_s (ft/s)	G_0 (tsf)	E' (tsf)	M (tsf)	σ_p' (tsf)	OCR	S_t	S_u (tsf)	S_u/σ_{v0}'	φ (°)	c' (tsf)
45.40	45.35	273.8	1.79	-0.80	273.7	0.65	9	132	2.68	1.58	171.5	209.6	0.66	6	1.55	230.2	1.00	230.2	6	0.01	1	3.51	0.43	273.6	966.8	1,916	1,378	2,756	6.72	4.3				43.1	0.13
45.50	45.48	250.9	1.83	-0.80	250.8	0.73	9	132	2.69	1.58	156.6	191.6	0.74	6	1.61	208.5	1.00	208.5	6	0.01	1	4.49	0.43	273.6	961.9	1,896	1,364	2,729	6.27	4.0				42.7	0.13
45.70	45.62	235.8	2.10	-0.80	235.6	0.89	9	133	2.70	1.59	146.5	178.6	0.90	6	1.69	194.2	1.02	194.2	6	0.01	1	5.87	0.44	273.6	980.0	1,981	1,416	2,832	5.95	3.7				42.4	0.12
45.80	45.76	235.0	2.46	-0.80	234.9	1.05	9	134	2.71	1.59	145.6	176.6	1.06	6	1.74	193.3	1.06	193.3	6	0.01	1	6.85	0.44	273.6	1,010.4	2,125	1,505	3,011	5.93	3.7				42.3	0.12
45.90	45.88	234.4	2.78	-0.80	234.3	1.18	9	135	2.72	1.60	144.8	175.0	1.20	6	1.78	192.6	1.09	192.9	6	0.01	1	7.66	0.44	273.6	1,035.2	2,245	1,580	3,160	5.91	3.7				42.3	0.12
46.10	46.00	235.5	2.99	-0.80	235.4	1.27	9	135	2.73	1.60	145.1	175.1	1.29	6	1.80	193.4	1.10	195.4	6	0.01	1	8.11	0.44	273.6	1,051.7	2,328	1,631	3,262	5.93	3.7				42.3	0.12
46.20	46.14	246.1	3.45	-0.80	245.9	1.40	8	137	2.74	1.61	151.2	182.3	1.42	6	1.82	202.9	1.11	208.6	6	0.01	1	8.53	0.44	273.6	1,088.8	2,516	1,748	3,496	6.15	3.8				42.5	0.12
46.30	46.28	267.2	3.48	-0.80	267.0	1.30	9	137	2.75	1.61	163.8	198.9	1.32	6	1.77	222.4	1.08	222.5	6	0.01	1	7.53	0.43	273.6	1,101.5	2,580	1,789	3,578	6.58	4.1				42.9	0.13
46.50	46.40	287.5	4.14	-0.80	287.3	1.44	9	138	2.75	1.62	175.9	213.5	1.45	6	1.78	241.4	1.09	242.1	6	0.01	1	7.79	0.42	273.6	1,152.2	2,854	1,958	3,915	6.97	4.3				43.2	0.14
46.60	46.54	297.6	5.05	-0.80	297.5	1.70	8	140	2.76	1.62	181.5	219.4	1.71	6	1.83	250.8	1.12	260.8	6	0.01	1	8.80	0.42	273.6	1,207.9	3,173	2,152	4,303	7.15	4.4				43.4	0.14
46.70	46.67	303.3	5.23	-0.80	303.2	1.73	8	140	2.77	1.63	184.5	223.2	1.74	6	1.83	255.8	1.13	266.3	6	0.01	1	8.84	0.42	273.6	1,220.6	3,247	2,197	4,394	7.26	4.5				43.4	0.15
46.90	46.80	281.6	5.41	-0.80	281.4	1.93	8	140	2.78	1.63	170.6	205.2	1.94	6	1.89	235.0	1.17	265.7	6	0.01	1	10.15	0.43	273.6	1,219.0	3,241	2,191	4,382	6.84	4.2				43.0	0.14
47.00	46.94	266.3	4.72	-0.80	266.2	1.77	8	139	2.79	1.64	160.7	193.9	1.79	6	1.88	220.4	1.16	245.5	6	0.01	1	9.86	0.43	273.6	1,176.0	2,990	2,039	4,078	6.55	4.0				42.8	0.13
47.10	47.06	274.3	2.94	-0.79	274.2	1.07	9	136	2.80	1.64	165.1	204.1	1.08	6	1.70	227.7	1.04	227.7	6	0.01	1	6.18	0.43	273.6	1,069.0	2,409	1,685	3,370	6.74	4.1				43.0	0.13
47.30	47.19	323.6	2.88	-0.78	323.5	0.89	9	136	2.81	1.65	194.6	242.8	0.90	6	1.60	272.1	1.00	272.1	6	0.01	1	4.29	0.42	273.5	1,085.2	2,488	1,736	3,473	7.69	4.7				43.8	0.15
47.40	47.32	356.8	2.80	-0.78	356.7	0.78	10	136	2.82	1.65	214.1	267.6	0.79	6	1.53	299.8	1.00	299.8	6	0.01	1	3.22	0.41	273.5	1,091.3	2,516	1,756	3,512	8.29	5.0				44.3	0.17
47.50	47.44	383.7	2.50	-0.78	383.6	0.66	10	135	2.83	1.66	229.7	287.5	0.66	6	1.45	322.1	1.00	322.1	6	0.01	1	2.12	0.40	273.5	1,076.4	2,437	1,709	3,417	8.75	5.3				44.6	0.18
47.60	47.58	432.3	2.18	-0.78	432.2	0.50	10	135	2.83	1.66	258.3	323.7	0.51	7	1.33	362.6	1.00	362.6	6	0.00	1	0.73	0.40	273.5	1,062.2	2,359	1,664	3,327	9.56	5.8				45.2	0.19
47.80	47.72	466.8	2.39	-0.78	466.7	0.51	10	135	2.84	1.67	278.2	349.2	0.52	7	1.31	391.3	1.00	391.3	6	0.00	1	0.54	0.39	273.5	1,091.3	2,506	1,756	3,512	10.11	6.1				45.6	0.20
47.90	47.85	457.4	2.62	-0.77	457.3	0.57	10	136	2.85	1.67	271.8	341.6	0.58	6	1.35	383.1	1.00	383.1	6	0.00	1	0.98	0.39	273.5	1,108.6	2,599	1,812	3,624	9.97	6.0				45.5	0.20
48.00	47.98	431.5	2.58	-0.77	431.4	0.60	10	136	2.86	1.68	255.5	321.7	0.60	6	1.39	361.1	1.00	361.1	6	0.00	1	1.35	0.40	273.5	1,098.2	2,545	1,778	3,557	9.56	5.7				45.2	0.19
48.20	48.11	398.0	2.49	-0.77	397.9	0.63	10	135	2.87	1.68	234.9	296.1	0.63	6	1.43	332.9	1.00	332.9	6	0.00	1	1.84	0.40	273.5	1,081.4	2,460	1,724	3,449	9.02	5.4				44.8	0.18
48.30	48.25	374.1	2.65	-0.77	373.9	0.71	10	136	2.88	1.69	220.0	277.7	0.71	6	1.48	312.6	1.00	312.6	6	0.01	1	2.60	0.41	273.5	1,087.3	2,493	1,743	3,487	8.61	5.1				44.5	0.17
48.40	48.37	366.9	3.24	-0.77	366.8	0.88	9	137	2.89	1.69	215.1	272.0	0.89	6	1.56	306.4	1.00	306.4	6	0.01	1	3.72	0.41	273.5	1,129.9	2,720	1,882	3,765	8.49	5.0				44.4	0.17
48.60	48.49	355.9	3.29	-0.77	355.8	0.92	9	137	2.90	1.70	208.1	263.4	0.93	6	1.58	297.0	1.00	297.0	6	0.01	1	4.10	0.41	273.5	1,129.9	2,721	1,883	3,765	8.30	4.9				44.2	0.17
48.70	48.62	325.2	3.44	-0.77	325.1	1.06	9	137	2.91	1.70	189.4	239.7	1.07	6	1.65	271.2	1.00	271.2	6	0.01	1	5.29	0.42	273.5	1,129.3	2,721	1,880	3,761	7.75	4.6				43.8	0.16
48.80	48.76	287.1	4.09	-0.77	286.9	1.43	9	138	2.92	1.71	166.5	206.9	1.44	6	1.79	236.9	1.09	238.0	6	0.01	1	7.89	0.43	273.6	1,154.6	2,864	1,966	3,931	7.00	4.1				43.1	0.14
49.00	48.90	271.2	4.36	-0.77	271.0	1.61	8	139	2.93	1.71	156.7	193.4	1.63	6	1.85	221.6	1.14	235.5	6	0.01	1	9.13	0.43	273.6	1,162.8	2,912	1,994	3,987	6.68	3.9				42.8	0.13
49.10	49.02	260.9	4.14	-0.77	260.8	1.59	8	138	2.93	1.72	150.3	185.5	1.61	6	1.85	211.8	1.14	227.7	6	0.01	1	9.29	0.43	273.6	1,145.5	2,817	1,935	3,870	6.47	3.8				42.6	0.13
49.20	49.15	258.1	3.87	-0.77	258.0	1.50	8	138	2.94	1.72	148.2	183.7	1.52	6	1.84	209.0	1.13	219.7	6	0.01	1	8.93	0.43	273.6	1,127.9	2,720	1,876	3,752	6.42	3.7				42.5	0.13
49.40	49.28	322.4	3.53	-0.76	322.2	1.09	9	137	2.95	1.73	185.0	235.2	1.10	6	1.67	267.8	1.01	267.8	6	0.01	1	5.56	0.42	273.6	1,135.2	2,752	1,900	3,800	7.71	4.5				43.7	0.15
49.50	49.42	286.3	3.08	-0.76	286.2	1.08	9	136	2.96	1.73	163.6	207.4	1.09	6	1.70	235.0	1.03	235.0	6	0.01	1	6.12	0.43	273.6	1,089.5	2,511	1,750	3,501	7.02	4.1				43.1	0.14
49.60	49.55	269.8	2.55	-0.76	269.7	0.94	9	135	2.97	1.74	153.7	195.7	0.95	6	1.68	219.2	1.02	219.2	6	0.01	1	5.68	0.43	273.6	1,041.8	2,269	1,600	3,201	6.70	3.9				42.8	0.13
49.70	49.68	246.2	2.19	-0.76	246.1	0.89	9	133	2.98	1.74	139.7	177.9	0.90	6	1.69	197.1	1.02	197.1	6	0.01	1	5.88	0.44	273.6	1,001.4	2,075	1,479	2,958	6.22	3.6				42.4	0.12
49.90	49.81	260.4	2.08	-0.76	260.3	0.80	9	133	2.99	1.74	147.5	189.4	0.81	6	1.64	210.1	1.00	210.1	6	0.01	1	4.99	0.43	273.6	998.0	2,057	1,469	2,937	6.53	3.7				42.7	0.13
50.00	49.92	271.3	2.41	-0.77	271.2	0.89	9	134	2.99	1.75	153.4	196.6	0.90	6	1.66	220.1	1.00	220.1	6	0.01	1	5.35	0.43	273.6	1,032.4	2,222	1,572	3,143	6.74	3.9				42.8	0.13

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Z_b (ft)	Z_m (ft)	$C_c/(1+e_0)$(%)	$C_r/(1+e_0)$(%)	μ_{FC}	μ_{LL}	μ_{PI}	K_0	D_R (%)	$N_{60L\&B}$	$(N_{60})_{1c}$	$(N_1)_{60l\&B}$	C_N	$(N_1)_{60csL\&R}$	$(N_1)_{60cs1c}$	$(N_1)_{60cs1\&B}$	$(N_1)_{60qc1ncs}$	r_d	MSF	K_σ	K_α	$CSR_{7.5}$	$CRR_{7.5}$	FS	τ_{av} (tsf)	p'(tsf)	γ_{max} (%)	G/G_0	ε_v (%)	ΔS_i	ΣS_i (in)
0.10	0.07	0.77	0.26	0.0	7.1	2.1	0.97	68.4	17.8	11.0	11.9	1.70	32.9	20.9	14.0	23.4	1.00	1.17	1.10	1.00	0.33	0.19		0.00	0.00	0.000	0.93	0.00	0.00	0.25
0.30	0.21	0.38	0.13	0.0	6.4	1.9	1.33	82.5	22.8	20.8	33.8	1.70	38.8	35.3	33.8	35.3	1.00	1.45	1.10	1.00	0.26	1.30		0.01	0.02	0.001	0.93	0.00	0.00	0.25
0.40	0.34	0.36	0.12	0.0	6.6	1.9	1.39	86.1	31.8	23.6	38.3	1.70	54.3	40.2	38.4	40.8	1.00	1.45	1.10	1.00	0.26	1.30		0.01	0.03	0.001	0.94	0.00	0.00	0.25
0.50	0.47	0.55	0.18	0.0	7.1	2.1	1.33	83.1	28.2	22.0	33.3	1.70	49.1	38.3	33.9	41.7	1.00	1.45	1.10	1.00	0.26	1.30		0.01	0.04	0.001	0.93	0.00	0.00	0.25
0.70	0.60	0.55	0.18	0.0	7.7	2.3	1.25	83.6	32.4	19.7	27.9	1.70	57.8	35.5	29.4	40.2	1.00	1.45	1.10	1.00	0.26	1.30		0.02	0.04	0.002	0.92	0.00	0.00	0.25
0.80	0.73	0.69	0.23	6.3	8.6	2.6	1.11	80.7	24.6	15.8	19.3	1.70	46.3	30.6	22.6	37.6	1.00	1.43	1.10	1.00	0.27	0.87		0.02	0.05	0.002	0.89	0.00	0.00	0.25
0.90	0.86	0.77	0.26	13.0	9.6	2.9	0.99	75.8	22.6	12.6	13.1	1.70	44.4	26.2	17.2	34.5	1.00	1.29	1.10	1.00	0.30	0.36		0.02	0.05	0.003	0.85	0.00	0.00	0.25
1.10	1.00	0.22	0.07	19.3	10.7	3.3	0.89	70.6	17.6	10.1	8.6	1.70	36.1	22.2	13.1	29.9	1.00	1.19	1.10	1.00	0.32	0.22		0.03	0.06	0.005	0.77	0.01	0.00	0.25
1.20	1.14	0.27	0.09	24.4	11.6	3.6	0.81	66.7	14.5	8.4	5.9	1.70	30.7	19.4	10.5	26.1	1.00	1.15	1.10	1.00	0.33	0.17		0.03	0.06	0.007	0.66	0.01	0.00	0.25
1.30	1.27	0.29	0.10	27.5	12.2	3.8	0.77	65.4	13.1	7.9	4.7	1.70	28.9	19.0	9.7	27.5	1.00	1.13	1.10	1.00	0.34	0.16		0.03	0.07	0.009	0.63	0.01	0.00	0.25
1.50	1.40	0.30	0.10	29.0	12.5	4.0	0.76	65.3	12.8	7.8	4.4	1.70	28.8	19.4	9.5	30.3	1.00	1.13	1.10	1.00	0.34	0.16		0.04	0.07	0.009	0.63	0.01	0.00	0.25
1.60	1.52	0.32	0.11	31.1	12.9	4.1	0.74	64.8	15.0	7.7	3.8	1.70	34.3	19.9	9.2	35.9	1.00	1.13	1.10	1.00	0.34	0.16		0.04	0.08		0.00		0.00	0.25
1.70	1.64	0.35	0.12	33.5	13.4	4.3	11.06		18.5	7.5	3.1	1.70	42.7	20.4	8.6	12.8	1.00	1.04	1.10	1.00	0.37	1.30		0.04	0.79		0.00		0.00	0.25
1.80	1.78	0.37	0.12	35.4	13.9	4.5	10.49		26.3	7.4	2.7	1.70	58.7	20.2	8.2	12.6	1.00	1.04	1.10	1.00	0.37	1.30		0.05	0.81		0.00		0.00	0.25
2.00	1.91	0.37	0.12	36.4	14.1	4.5	10.37		26.1	7.4	2.6	1.70	58.1	20.2	8.2	12.7	1.00	1.04	1.10	1.00	0.37	1.30		0.05	0.86		0.00		0.00	0.25
2.10	2.04	0.37	0.12	37.0	14.3	4.6	10.38		26.1	7.4	2.6	1.70	58.2	20.2	8.2	12.6	1.00	1.04	1.10	1.00	0.37	1.30		0.05	0.92		0.00		0.00	0.25
2.20	2.18	0.37	0.12	37.5	14.4	4.6	10.51		26.4	7.5	2.7	1.70	58.9	20.3	8.3	12.7	0.99	1.04	1.10	1.00	0.37	1.30		0.06	1.00		0.00		0.00	0.25
2.40	2.31	0.36	0.12	38.0	14.5	4.7	10.60		26.7	7.6	2.8	1.70	59.4	20.4	8.3	12.8	0.99	1.04	1.10	1.00	0.37	1.30		0.06	1.07		0.00		0.00	0.25
2.50	2.44	0.36	0.12	38.4	14.6	4.7	10.69		26.9	7.6	2.8	1.70	59.8	20.5	8.4	12.9	0.99	1.04	1.10	1.00	0.37	1.30		0.06	1.14		0.00		0.00	0.25
2.70	2.58	0.36	0.12	39.1	14.8	4.8	10.61		26.7	7.6	2.8	1.70	59.5	20.5	8.4	12.9	0.99	1.04	1.10	1.00	0.37	1.30		0.07	1.19		0.00		0.00	0.25
2.80	2.72	0.36	0.12	39.5	14.8	4.8	10.72		27.0	7.6	2.9	1.70	60.0	20.6	8.4	13.0	0.99	1.04	1.10	1.00	0.37	1.30		0.07	1.27		0.00		0.00	0.25
2.90	2.84	0.36	0.12	40.0	15.0	4.8	10.70		26.9	7.6	2.8	1.70	59.9	20.6	8.4	13.0	0.99	1.04	1.10	1.00	0.37	1.30		0.07	1.33		0.00		0.00	0.25
3.00	2.96	0.36	0.12	40.4	15.1	4.9	10.74		27.0	7.7	2.9	1.70	60.1	20.6	8.4	13.0	0.99	1.04	1.10	1.00	0.37	1.30		0.08	1.39		0.00		0.00	0.25
3.20	3.09	0.36	0.12	41.1	15.2	4.9	10.64		26.8	7.6	2.8	1.70	59.6	20.5	8.4	12.9	0.99	1.04	1.10	1.00	0.37	1.30		0.08	1.44		0.00		0.00	0.25
3.30	3.23	0.36	0.12	41.4	15.3	5.0	10.73		27.0	7.6	2.9	1.70	60.1	20.5	8.4	12.9	0.99	1.04	1.10	1.00	0.36	1.30		0.08	1.51		0.00		0.00	0.25
3.40	3.36	0.36	0.12	41.7	15.4	5.0	10.78		27.2	7.6	2.9	1.70	60.4	20.5	8.5	12.9	0.99	1.04	1.10	1.00	0.36	1.30		0.09	1.58		0.00		0.00	0.25
3.60	3.50	0.36	0.12	42.1	15.5	5.0	10.83		27.3	7.6	3.0	1.70	60.7	20.5	8.5	12.9	0.99	1.04	1.10	1.00	0.36	1.30		0.09	1.65		0.00		0.00	0.25
3.70	3.63	0.36	0.12	42.4	15.6	5.1	10.85		27.3	7.6	3.0	1.70	60.8	20.5	8.5	12.9	0.99	1.04	1.10	1.00	0.36	1.30		0.09	1.72		0.00		0.00	0.25
3.80	3.76	0.36	0.12	43.0	15.7	5.1	10.79		27.2	7.6	2.9	1.70	60.5	20.4	8.5	12.8	0.99	1.04	1.10	1.00	0.36	1.30		0.10	1.77		0.00		0.00	0.25
4.00	3.90	0.36	0.12	43.7	15.9	5.2	10.62		26.8	7.5	2.8	1.70	59.7	20.3	8.4	12.7	0.99	1.04	1.10	1.00	0.36	1.30		0.10	1.81		0.00		0.00	0.25
4.10	4.03	0.37	0.12	44.2	16.0	5.2	10.56		26.7	7.5	2.8	1.70	59.4	20.2	8.3	12.7	0.99	1.04	1.10	1.00	0.36	1.30		0.10	1.86		0.00		0.00	0.25
4.20	4.15	0.36	0.12	44.5	16.1	5.3	10.60		26.7	7.5	2.8	1.70	59.6	20.3	8.4	12.7	0.99	1.04	1.10	1.00	0.36	1.30		0.11	1.92		0.00		0.00	0.25
4.30	4.27	0.36	0.12	44.7	16.2	5.3	10.56		26.9	7.5	2.8	1.70	59.9	20.4	8.4	12.8	0.99	1.04	1.10	1.00	0.36	1.30		0.11	1.97		0.00		0.00	0.25
4.50	4.40	0.36	0.12	44.7	16.2	5.3	10.37		27.3	7.6	2.9	1.70	60.6	20.5	8.5	12.9	0.99	1.04	1.10	1.00	0.36	1.30		0.11	2.00		0.00		0.00	0.25
4.60	4.54	0.36	0.12	45.1	16.3	5.3	10.07		27.3	7.6	3.0	1.70	60.7	20.5	8.5	12.9	0.99	1.04	1.10	1.00	0.36	1.30		0.12	2.00		0.00		0.00	0.25
4.70	4.67	0.36	0.12	45.3	16.3	5.3	9.82		27.4	7.6	3.0	1.70	60.9	20.5	8.5	12.9	0.99	1.04	1.10	1.00	0.36	1.30		0.12	2.01		0.00		0.00	0.25
4.90	4.80	0.35	0.12	45.1	16.3	5.3	9.79		28.1	7.7	3.2	1.70	62.3	20.8	8.7	13.2	0.98	1.04	1.10	1.00	0.36	1.30		0.12	2.06		0.00		0.00	0.25
5.00	4.93	0.34	0.11	45.0	16.2	5.3	9.72		28.6	7.9	3.4	1.70	63.4	21.1	8.9	13.4	0.98	1.04	1.10	1.00	0.36	1.30		0.13	2.10		0.00		0.00	0.25
5.10	5.06	0.34	0.11	45.3	16.3	5.3	9.45		28.6	7.9	3.3	1.70	63.3	21.1	8.9	13.4	0.98	1.04	1.10	1.00	0.36	1.30		0.13	2.10		0.00		0.00	0.25
5.30	5.19	0.34	0.11	45.5	16.4	5.4	9.27		28.8	8.0	3.4	1.70	63.7	21.2	8.9	13.5	0.98	1.04	1.09	1.00	0.36	1.30		0.13	2.12		0.00		0.00	0.25
5.40	5.33	0.34	0.11	46.1	16.6	5.4	8.89		28.4	7.9	3.3	1.70	62.8	21.1	8.8	13.4	0.98	1.04	1.09	1.00	0.36	1.30		0.14	2.09		0.00		0.00	0.25
5.50	5.47	0.35	0.12	47.0	16.8	5.5	8.46		27.7	7.7	3.1	1.70	61.5	20.8	8.6	13.1	0.98	1.04	1.09	1.00	0.37	1.30		0.14	2.05		0.00		0.00	0.25
5.60	5.60	0.36	0.12	47.7	17.0	5.6	8.10		27.2	7.6	2.9	1.70	60.4	20.5	8.5	12.9	0.98	1.04	1.09	1.00	0.37	1.30		0.14	2.01		0.00		0.00	0.25
5.80	5.72	0.37	0.12	48.8	17.3	5.7	7.64		26.2	7.4	2.6	1.70	58.4	20.0	8.2	12.5	0.98	1.04	1.08	1.00	0.37	1.30		0.15	1.94		0.00		0.00	0.25
5.90	5.85	0.38	0.13	49.5	17.5	5.8	7.32		25.7	7.2	2.5	1.70	57.4	19.8	8.1	12.3	0.98	1.04	1.08	1.00	0.37	1.30		0.15	1.91		0.00		0.00	0.25
6.00	5.98	0.39	0.13	50.2	17.7	5.8	7.03		25.2	7.1	2.4	1.68	55.9	19.3	7.9	12.1	0.98	1.04	1.08	1.00	0.37	1.30		0.15	1.88		0.00		0.00	0.25
6.20	6.12	0.39	0.13	50.6	17.8	5.9	6.83		25.1	7.0	2.3	1.66	55.0	19.0	7.9	11.9	0.98	1.04	1.08	1.00	0.37	1.30		0.16	1.87		0.00		0.00	0.25
6.30	6.25	0.38	0.13	50.3	17.7	5.9	6.85		25.7	7.1	2.5	1.65	55.7	19.1	8.0	12.1	0.98	1.04	1.07	1.00	0.37	1.30		0.16	1.92		0.00		0.00	0.25
6.40	6.38	0.37	0.12	50.0	17.6	5.8	6.88		26.3	7.3	2.7	1.63	56.5	19.2	8.2	12.3	0.98	1.04	1.07	1.00	0.37	1.30		0.16	1.96		0.00		0.00	0.25
6.60	6.51	0.37	0.12	50.1	17.7	5.8	6.80		26.6	7.3	2.7	1.61	56.4	19.2	8.3	12.4	0.98	1.04	1.07	1.00	0.37	1.30		0.17	1.98		0.00		0.00	0.25
6.70	6.65	0.38	0.13	50.8	17.9	5.9	6.53		26.1	7.2	2.6	1.60	54.9	18.8	8.1	12.3	0.98	1.04	1.07	1.00	0.37	1.30		0.17	1.95		0.00		0.00	0.25
6.90	6.79	0.40	0.13	52.2	18.3	6.1	6.06		24.7	7.0	2.2	1.58	51.8	18.2	7.8	11.8	0.98	1.04	1.07	1.00	0.37	1.30		0.17	1.86		0.00		0.00	0.25
7.00	6.91	0.41	0.14	53.0	18.5	6.2	5.81		24.1	6.8	2.1	1.57	50.3	17.8	7.6	11.6	0.98	1.04	1.07	1.00	0.37	1.30		0.18	1.82		0.00		0.00	0.25
7.10	7.03	0.42	0.14	54.1	18.9	6.3	5.50		23.3	6.3	3.3	1.55	48.3	16.7	8.8	14.9	0.98	1.04	1.06	1.00	0.37	1.30		0.18	1.76		0.00		0.00	0.25
7.20	7.16	0.44	0.15	55.1	19.2	6.4	5.23		22.5	6.1	2.9	1.54	46.6	16.3	8.5	14.3	0.97	1.04	1.06	1.00	0.37	1.30		0.18	1.71		0.00		0.00	0.25
7.40	7.29	0.44	0.15	55.7	19.4	6.5	5.05		22.2	6.1	2.7	1.52	45.5	16.1	8.3	13.8	0.97	1.04	1.06	1.00	0.37	1.30		0.19	1.68		0.00		0.00	0.25
7.50	7.42	0.45	0.15	56.1	19.5	6.5	4.92		22.0	6.0	2.6	1.51	44.8	15.9	8.2	13.5	0.97	1.04	1.06	1.00	0.37	1.30		0.19	1.67		0.00		0.00	0.25
7.60	7.56	0.46	0.15	57.1	19.8	6.6	4.67		21.3	5.9	2.3	1.50	43.2	15.6	7.9	12.9	0.97	1.04	1.06	1.00	0.37	1.30		0.19	1.63		0.00		0.00	0.25
7.80	7.69	0.50	0.17	58.8	20.4	6.8	4.30		19.9	5.6	1.9	1.49	40.5	15.0	7.4	12.1	0.97	1.04	1.05	1.00	0.38	1.30		0.20	1.54		0.00		0.00	0.25
7.90	7.82	0.55	0.18	61.3	21.2	7.2	3.83		18.1	5.2	1.3	1.47	37.0	14.1	6.9	10.9	0.97	1.04	1.05	1.00	0.38	1.30		0.20	1.41		0.00		0.00	0.25
8.00	7.95	0.61	0.20	63.9	22.2	7.5	3.39		16.4	4.8	0.8	1.46	33.7	13.5	6.4	10.0	0.97	1.03	1.05	1.00	0.38	1.30		0.20	1.29		0.00		0.00	0.25
8.20	8.09	0.68	0.23	66.7	23.2	7.9	2.99		14.7	4.5	0.5	1.45	30.6	12.8	6.1	9.1	0.97	1.03	1.04	1.00	0.38	1.30		0.21	1.17		0.00		0.00	0.25
8.30	8.22	0.75	0.25	69.3	24.2	8.3	2.66		13.3	4.2	0.4	1.44	28.0	12.2	6.0	8.3	0.97	1.03	1.04	1.00	0.38	1.30		0.21	1.08		0.00		0.00	0.25
8.40	8.35	0.76	0.25	69.8	24.4	8.4	2.58		13.1	4.1	0.4	1.43	27.5	12.0	6.0	8.1	0.97	1.03	1.04	1.00	0.38	1.30		0.21	1.07		0.00		0.00	0.25
8.50	8.48	0.81	0.27	71.3	25.0	8.6	2.40		12.5	3.9	0.3	1.42	26.2	11.7	6.0	7.6	0.97	1.03	1.04	1.00	0.38	1.30		0.22	1.02		0.00		0.00	0.25
8.70	8.61	0.87	0.29	73.2	25.8	8.9	2.20		11.6	3.7	0.3	1.41	24.6	11.3	5.9	7.1	0.97	1.03	1.04	1.00	0.38	1.26		0.22	0.96		0.00		0.00	0.25
8.80	8.75	0.97	0.32	75.8	27.0	9.4	1.95		10.5	3.5	0.3	1.40	22.6	10.9	5.9	6.5	0.97	1.03	1.04	1.00	0.38	1.30		0.22	0.89		0.00		0.00	0.25
9.00	8.88	1.03	0.34	77.5	27.7	9.7	1.81		9.9	3.4	0.3	1.39	21.5	10.6	5.9	6.1	0.97	1.03	1.04	1.00	0.38	1.30		0.22	0.85		0.00		0.00	0.25
9.10	9.00	1.02	0.34	77.5	27.7	9.6	1.80		10.0	3.4	0.3	1.38	21.6	10.6	5.9	6.1	0.97	1.03	1.04	1.00	0.38	1.30		0.23	0.85		0.00		0.00	0.25

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Z_b (ft)	Z_m (ft)	$C_c/(1+e_0)$(%)	$C_r/(1+e_0)$(%)	μ_{FC}	μ_{LL}	μ_{PI}	K_0	D_R (%)	$N_{60L\&B}$	$(N_{60})_{1c}$	$(N_1)_{60l\&B}$	C_N	$(N_1)_{60csL\&R}$	$(N_1)_{60cs1c}$	$(N_1)_{60csl\&B}$	$(N_1)_{60qc1ncs}$	r_d	MSF	K_σ	K_α	$CSR_{7.5}$	$CRR_{7.5}$	FS	τ_{av} (tsf)	p'(tsf)	γ_{max} (%)	G/G_0	ε_v (%)	ΔS_i	ΣS_i (in)
9.20	9.14	0.96	0.32	76.2	27.1	9.4	1.89		10.7	3.5	0.3	1.37	22.5	10.8	5.9	6.2	0.97	1.03	1.03	1.00	0.38	1.30		0.23	0.90		0.00		0.00	0.25
9.30	9.27	0.90	0.30	74.9	26.6	9.2	1.98		11.3	3.6	0.3	1.36	23.4	10.9	5.9	6.4	0.97	1.03	1.03	1.00	0.38	1.13		0.23	0.95		0.00		0.00	0.25
9.50	9.39	0.87	0.29	74.3	26.3	9.1	2.03		11.7	3.7	0.3	1.35	23.9	11.0	5.9	6.5	0.96	1.03	1.03	1.00	0.38	1.16		0.24	0.98		0.00		0.00	0.25
9.60	9.52	0.87	0.29	74.1	26.2	9.1	2.04		11.9	3.8	0.3	1.34	24.2	11.1	5.9	6.5	0.96	1.03	1.03	1.00	0.38	1.17		0.24	1.00		0.00		0.00	0.25
9.70	9.66	0.85	0.28	73.6	26.0	9.0	2.07		12.2	3.8	0.3	1.33	24.6	11.2	5.9	6.5	0.96	1.03	1.03	1.00	0.38	1.18		0.24	1.02		0.00		0.00	0.25
9.90	9.79	0.86	0.29	73.6	26.0	9.0	2.06		12.3	3.9	0.3	1.32	24.6	11.2	5.9	6.5	0.96	1.03	1.03	1.00	0.38	1.18		0.24	1.03		0.00		0.00	0.25
10.00	9.93	0.86	0.29	73.6	26.0	9.0	2.05		12.4	3.9	0.3	1.32	24.6	11.2	5.9	6.5	0.96	1.03	1.03	1.00	0.38	1.17		0.25	1.04		0.00		0.00	0.25
10.10	10.06	0.84	0.28	72.8	25.7	8.9	2.11		12.9	4.0	0.3	1.31	25.3	11.3	5.9	6.6	0.96	1.03	1.03	1.00	0.38	1.21	2.00	0.25	1.07				0.00	0.25
10.30	10.19	0.82	0.27	72.4	25.5	8.8	2.15		13.2	4.1	0.3	1.31	25.7	11.4	5.9	6.6	0.96	1.03	1.03	1.00	0.38	1.23	2.00	0.25	1.09				0.00	0.25
10.40	10.32	0.81	0.27	71.8	25.3	8.7	2.19		13.6	4.2	0.3	1.30	26.2	11.5	5.9	6.7	0.96	1.03	1.03	1.00	0.39	1.25	2.00	0.26	1.12				0.00	0.25
10.50	10.47	0.84	0.28	72.9	25.7	8.9	2.09		13.1	4.1	0.3	1.30	25.3	11.3	5.9	6.5	0.96	1.03	1.03	1.00	0.39	1.20	2.00	0.26	1.09				0.00	0.25
10.60	10.59	0.86	0.29	73.5	25.9	9.0	2.04		12.8	4.0	0.3	1.29	24.9	11.2	5.9	6.4	0.96	1.03	1.03	1.00	0.39	1.16	2.00	0.26	1.07				0.00	0.25
10.80	10.71	0.86	0.29	73.4	25.9	8.9	2.04		12.9	4.0	0.3	1.29	24.9	11.2	5.9	6.4	0.96	1.03	1.03	1.00	0.39	1.17	2.00	0.27	1.07				0.00	0.25
10.90	10.84	0.86	0.29	73.2	25.8	8.9	2.05		13.0	4.0	0.3	1.29	25.1	11.2	5.9	6.3	0.96	1.03	1.03	1.00	0.40	1.17	2.00	0.27	1.09				0.00	0.25
11.00	10.97	0.88	0.29	73.7	26.1	9.0	2.00		12.8	4.0	0.3	1.28	24.7	11.1	5.9	6.2	0.96	1.03	1.03	1.00	0.40	1.14	2.00	0.27	1.07				0.00	0.25
11.20	11.11	0.90	0.30	74.3	26.3	9.1	1.94		12.5	3.9	0.3	1.28	24.2	11.0	5.9	6.1	0.96	1.03	1.03	1.00	0.40	1.11	2.00	0.27	1.05				0.00	0.25
11.30	11.25	0.93	0.31	75.3	26.7	9.3	1.86		12.1	3.9	0.3	1.28	23.5	10.9	5.9	5.9	0.96	1.03	1.03	1.00	0.40	1.07	2.00	0.28	1.02				0.00	0.25
11.40	11.38	0.93	0.31	75.2	26.7	9.3	1.87		12.2	3.9	0.3	1.27	23.6	10.9	5.9	6.0	0.96	1.03	1.03	1.00	0.40	1.07	2.00	0.28	1.03				0.00	0.25
11.60	11.50	0.94	0.31	75.3	26.8	9.3	1.85		12.1	3.9	0.3	1.27	23.5	10.9	5.9	5.9	0.95	1.03	1.03	1.00	0.41	1.06	2.00	0.28	1.03				0.00	0.25
11.70	11.63	0.94	0.31	75.2	26.7	9.2	1.86		12.3	3.9	0.3	1.27	23.7	10.9	5.9	5.9	0.95	1.03	1.03	1.00	0.41	1.06	2.00	0.29	1.04				0.00	0.25
11.80	11.76	0.92	0.31	74.7	26.5	9.2	1.90		12.5	3.9	0.3	1.26	24.0	11.0	5.9	6.0	0.95	1.03	1.03	1.00	0.41	1.08	2.00	0.29	1.06				0.00	0.25
11.90	11.88	0.99	0.33	76.6	27.3	9.5	1.75		11.7	3.7	0.3	1.26	22.7	10.7	5.9	5.6	0.95	1.03	1.03	1.00	0.41	1.00	2.00	0.29	1.00				0.00	0.25
12.10	12.01	1.16	0.39	80.5	29.1	10.2	1.47		10.0	3.4	0.2	1.26	20.1	10.1	5.8	5.0	0.95	1.03	1.03	1.00	0.41	1.30		0.29	0.88				0.00	0.25
12.20	12.14	1.19	0.40	80.9	29.3	10.3	1.44		9.9	3.4	0.2	1.25	19.9	10.1	5.8	5.0	0.95	1.03	1.03	1.00	0.42	1.30		0.30	0.87				0.00	0.25
12.30	12.28	1.10	0.37	79.0	28.4	9.9	1.56		10.7	3.6	0.2	1.25	21.1	10.4	5.8	5.3	0.95	1.03	1.02	1.00	0.42	1.30		0.30	0.93				0.00	0.25
12.50	12.42	0.94	0.31	75.2	26.7	9.2	1.84		12.5	4.0	0.3	1.25	23.8	11.0	5.9	5.9	0.95	1.03	1.02	1.00	0.42	1.05	2.00	0.30	1.06				0.00	0.25
12.60	12.55	0.88	0.29	73.4	25.9	9.0	1.98		13.5	4.2	0.3	1.24	25.2	11.3	5.9	6.1	0.95	1.03	1.02	1.00	0.42	1.13	2.00	0.31	1.13				0.00	0.25
12.70	12.68	0.91	0.30	74.1	26.2	9.1	1.92		13.2	4.1	0.3	1.24	24.6	11.2	5.9	6.0	0.95	1.03	1.02	1.00	0.42	1.10	2.00	0.31	1.11				0.00	0.25
12.90	12.80	1.03	0.34	77.3	27.6	9.6	1.67		11.6	3.9	0.3	1.24	22.3	10.7	5.9	5.5	0.95	1.03	1.02	1.00	0.43	1.30		0.31	1.00				0.00	0.25
13.00	12.95	1.12	0.37	79.4	28.6	10.0	1.52		10.8	3.7	0.2	1.23	20.9	10.5	5.8	5.2	0.95	1.03	1.02	1.00	0.43	1.30		0.31	0.94				0.00	0.25
13.10	13.08	1.13	0.38	79.7	28.7	10.1	1.50		10.7	3.7	0.2	1.23	20.8	10.4	5.8	5.2	0.95	1.03	1.02	1.00	0.43	1.30		0.32	0.93				0.00	0.25
13.30	13.21	1.06	0.35	78.0	27.9	9.7	1.61		11.4	3.8	0.3	1.23	21.9	10.6	5.9	5.4	0.95	1.03	1.02	1.00	0.43	1.30		0.32	0.99				0.00	0.25
13.40	13.34	1.00	0.33	76.3	27.2	9.4	1.73		12.3	4.0	0.3	1.23	23.0	10.8	5.9	5.6	0.95	1.03	1.02	1.00	0.43	0.99	2.00	0.32	1.05				0.00	0.25
13.50	13.46	0.96	0.32	75.3	26.7	9.3	1.80		12.8	4.1	0.3	1.22	23.8	11.0	5.9	5.7	0.94	1.03	1.02	1.00	0.43	1.03	2.00	0.32	1.09				0.00	0.25
13.70	13.60	0.95	0.32	75.0	26.6	9.2	1.82		13.0	4.1	0.3	1.22	24.0	11.0	5.9	5.8	0.94	1.03	1.02	1.00	0.44	1.04	2.00	0.33	1.10				0.00	0.25
13.80	13.73	0.96	0.32	75.2	26.7	9.3	1.80		13.0	4.1	0.3	1.22	23.9	11.0	5.9	5.7	0.94	1.03	1.02	1.00	0.44	1.03	2.00	0.33	1.10				0.00	0.25
13.90	13.86	0.95	0.32	75.1	26.6	9.2	1.81		13.1	4.1	0.3	1.21	24.0	11.0	5.9	5.7	0.94	1.03	1.02	1.00	0.44	1.03	2.00	0.33	1.10				0.00	0.25
14.10	13.99	0.91	0.30	73.9	26.1	9.0	1.90		9.2	4.3	0.3	1.21	18.3	11.2	5.9	5.9	0.94	1.03	1.02	1.00	0.44	1.08	2.00	0.34	1.15				0.00	0.25
14.20	14.14	0.89	0.30	73.2	25.8	8.9	1.95		9.4	4.4	0.3	1.21	18.7	11.4	5.9	6.0	0.94	1.03	1.02	1.00	0.44	1.11	2.00	0.34	1.18				0.00	0.25
14.30	14.26	0.85	0.28	72.1	25.3	8.7	2.04		9.9	4.6	0.3	1.20	19.4	11.6	5.9	6.3	0.94	1.03	1.02	1.00	0.44	1.17	2.00	0.34	1.24				0.00	0.25
14.40	14.37	0.83	0.28	71.7	25.2	8.7	2.07		10.1	4.7	0.3	1.20	19.6	11.7	5.9	6.4	0.94	1.03	1.02	1.00	0.44	1.18	2.00	0.34	1.26				0.00	0.25
14.60	14.50	0.78	0.26	69.9	24.5	8.4	2.23		10.9	4.9	0.3	1.20	20.7	12.1	6.0	6.7	0.94	1.03	1.02	1.00	0.45	1.27	2.00	0.35	1.34				0.00	0.25
14.70	14.65	0.79	0.26	70.3	24.6	8.5	2.19		10.8	4.9	0.3	1.20	20.4	12.0	5.9	6.6	0.94	1.03	1.02	1.00	0.45	1.25	2.00	0.35	1.33				0.00	0.25
14.80	14.78	0.82	0.27	71.0	24.9	8.6	2.12		10.5	4.8	0.3	1.19	20.0	11.8	5.9	6.4	0.94	1.03	1.02	1.00	0.45	1.21	2.00	0.35	1.30				0.00	0.25
15.00	14.90	0.84	0.28	71.8	25.2	8.7	2.05		10.2	4.7	0.3	1.19	19.6	11.7	5.9	6.3	0.94	1.03	1.02	1.00	0.45	1.17	2.00	0.36	1.27				0.00	0.25
15.10	15.04	0.87	0.29	72.4	25.5	8.8	1.99		10.0	4.6	0.3	1.19	19.2	11.5	5.9	6.1	0.94	1.03	1.02	1.00	0.45	1.14	2.00	0.36	1.25				0.00	0.25
15.20	15.17	0.92	0.31	74.0	26.2	9.1	1.86		9.4	4.4	0.3	1.18	18.4	11.2	5.9	5.8	0.94	1.03	1.02	1.00	0.45	1.06	2.00	0.36	1.19				0.00	0.25
15.40	15.30	1.02	0.34	76.3	27.2	9.4	1.68		12.9	4.1	0.3	1.18	23.3	10.8	5.9	5.4	0.94	1.03	1.02	1.00	0.46	0.96	2.00	0.36	1.10				0.00	0.25
15.50	15.44	1.08	0.36	77.8	27.9	9.7	1.58		12.2	3.9	0.3	1.18	22.3	10.6	5.9	5.1	0.93	1.03	1.02	1.00	0.46	0.90	1.97	0.37	1.05				0.00	0.25
15.60	15.56	1.10	0.37	78.1	28.0	9.8	1.56		8.1	3.8	0.2	1.18	16.4	10.4	5.9	4.9	0.93	1.03	1.02	1.00	0.46	0.89	1.94	0.37	1.05				0.00	0.25
15.80	15.69	1.25	0.42	80.4	29.1	10.2	1.41		7.4	3.6	0.2	1.17	15.4	10.0	5.8	4.5	0.93	1.03	1.02	1.00	0.46	0.80	1.75	0.37	0.98				0.00	0.25
15.90	15.83	1.36	0.45	81.3	29.5	10.4	1.35		7.2	3.4	0.2	1.17	15.1	9.8	5.8	4.3	0.93	1.03	1.02	1.00	0.46	0.77	1.67	0.37	0.95				0.00	0.25
16.00	15.96	1.56	0.52	83.0	30.3	10.7	1.26		6.7	3.3	0.2	1.17	14.5	9.6	5.8	4.1	0.93	1.03	1.02	1.00	0.46	0.72	1.55	0.38	0.91				0.00	0.25
16.20	16.09	1.81	0.60	84.8	31.2	11.0	1.16		6.3	3.2	0.2	1.17	13.8	9.4	5.8	3.9	0.93	1.03	1.02	1.00	0.46	1.30		0.38	0.86				0.00	0.25
16.30	16.22	2.02	0.67	86.2	32.0	11.3	1.09		6.0	3.1	0.2	1.16	13.4	9.3	5.8	3.7	0.93	1.03	1.02	1.00	0.47	1.30		0.38	0.83				0.00	0.25
16.40	16.34	2.28	0.76	87.6	32.7	11.6	1.03		8.5	3.0	0.2	1.16	16.9	9.1	5.8	3.6	0.93	1.03	1.02	1.00	0.47	1.30		0.38	0.80				0.00	0.25
16.50	16.48	2.31	0.77	87.7	32.8	11.7	1.02		5.7	3.0	0.2	1.16	12.9	9.1	5.8	3.5	0.93	1.03	1.02	1.00	0.47	1.30		0.39	0.80				0.00	0.25
16.70	16.61	2.41	0.80	88.2	33.1	11.8	1.00		5.6	2.9	0.2	1.16	12.8	9.1	5.8	3.5	0.93	1.03	1.02	1.00	0.47	1.30		0.39	0.79				0.00	0.25
16.80	16.74	2.85	0.95	90.3	34.2	12.2	0.91		7.8	2.8	0.2	1.16	15.8	8.9	5.7	3.3	0.93	1.03	1.02	1.00	0.47	1.30		0.39	0.75				0.00	0.25
16.90	16.87	3.24	1.08	91.8	35.1	12.6	0.86		7.4	2.7	0.1	1.15	15.2	8.7	5.7	3.1	0.93	1.03	1.02	1.00	0.47	1.30		0.39	0.72				0.00	0.25
17.10	17.01	3.84	1.28	93.9	36.3	13.1	0.78		6.9	2.6	0.1	1.15	14.5	8.6	5.7	2.9	0.93	1.03	1.02	1.00	0.47	1.30		0.40	0.68				0.00	0.25
17.20	17.16	4.05	1.35	94.5	36.7	13.2	0.76		6.8	2.5	0.1	1.15	14.3	8.5	5.7	2.9	0.92	1.03	1.02	1.00	0.47	1.30		0.40	0.68				0.00	0.25
17.30	17.29	4.16	1.39	94.8	36.8	13.3	0.75		6.7	2.5	0.1	1.15	14.2	8.5	5.7	2.8	0.92	1.03	1.02	1.00	0.48	1.30		0.40	0.67				0.00	0.25
17.50	17.40	4.54	1.51	95.8	37.5	13.5	0.72		6.5	2.5	0.1	1.14	13.9	8.4	5.7	2.7	0.92	1.03	1.01	1.00	0.48	1.30		0.40	0.66				0.00	0.25
17.60	17.53	5.23	1.74	97.6	38.5	14.0	0.67		6.1	2.4	0.1	1.14	13.4	8.3	5.7	2.6	0.92	1.03	1.01	1.00	0.48	1.30		0.41	0.63				0.00	0.25
17.70	17.67	5.90	1.97	99.0	39.5	14.3	0.63		5.8	2.3	0.1	1.14	13.0	8.1	5.7	2.5	0.92	1.03	1.01	1.00	0.48	1.30		0.41	0.61				0.00	0.25
17.90	17.80	6.18	2.06	99.5	39.8	14.5	0.61		5.7	2.3	0.1	1.14	12.8	8.1	5.7	2.4	0.92	1.03	1.01	1.00	0.48	1.30		0.41	0.61				0.00	0.25
18.00	17.92	7.30	2.43	100.0	41.2	15.0	0.56		5.4	2.2	0.1	1.14	12.3	8.0	5.7	2.3	0.92	1.03	1.01	1.00	0.48	1.30		0.41	0.58				0.00	0.25
18.10	18.05	9.36	3.12	100.0	43.2	15.9	0.50		4.9	2.1	0.1	1.13	11.6	7.8	5.6	2.1	0.92	1.03	1.01	1.00	0.48	1.30		0.42	0.55				0.00	0.25

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Z_b (ft)	Z_m (ft)	$C_c/(1+e_0)$(%)	$C_r/(1+e_0)$(%)	μ_{FC}	μ_{LL}	μ_{PI}	K_0	D_R (%)	$N_{60L\&B}$	$(N_{60})_{1c}$	$(N_1)_{60l\&B}$	C_N	$(N_1)_{60csL\&R}$	$(N_1)_{60cs1c}$	$(N_1)_{60cs1\&B}$	$(N_1)_{60qc1ncs}$	r_d	MSF	K_σ	K_α	$CSR_{7.5}$	$CRR_{7.5}$	FS	τ_{av} (tsf)	p'(tsf)	γ_{max} (%)	G/G_0	ε_v (%)	ΔS_i	ΣS_i (in)
18.30	18.19	9.95	3.32	100.0	43.7	16.1	0.48		4.8	2.1	0.1	1.13	11.5	7.8	5.6	2.1	0.92	1.03	1.01	1.00	0.48	1.30		0.42	0.54				0.00	0.25
18.40	18.32	7.83	2.61	100.0	41.7	15.2	0.54		5.3	2.2	0.1	1.13	12.2	7.9	5.6	2.2	0.92	1.03	1.01	1.00	0.49	1.30		0.42	0.58				0.00	0.25
18.50	18.45	5.02	1.67	96.7	38.0	13.8	0.69		4.3	2.3	0.1	1.13	10.8	8.1	5.7	2.5	0.92	1.03	1.01	1.00	0.49	1.30		0.42	0.66				0.00	0.25
18.70	18.59	1.61	0.54	82.5	30.1	10.6	1.25		5.4	3.1	0.2	1.13	12.4	9.2	5.8	3.6	0.92	1.03	1.01	1.00	0.49	0.71	1.46	0.43	0.97				0.00	0.25
18.80	18.71	6.45	2.15	99.7	39.9	14.5	0.61		3.9	2.1	0.1	1.13	10.3	7.9	5.7	2.2	0.92	1.03	1.01	1.00	0.49	1.30		0.43	0.62				0.00	0.25
18.90	18.85	8.82	2.94	100.0	42.5	15.6	0.52		3.4	1.9	0.1	1.12	9.6	7.6	5.7	2.0	0.92	1.03	1.01	1.00	0.49	1.30		0.43	0.57				0.00	0.25
19.10	18.99	10.96	3.65	100.0	44.4	16.3	0.46		3.2	1.9	0.1	1.12	9.2	7.5	5.6	1.8	0.91	1.03	1.01	1.00	0.49	1.30		0.43	0.54				0.00	0.25
19.20	19.11	11.90	3.97	100.0	45.1	16.6	0.44		3.1	1.8	0.1	1.12	9.1	7.5	5.6	1.8	0.91	1.03	1.01	1.00	0.49	1.30		0.43	0.53				0.00	0.25
19.30	19.23	12.00	4.00	100.0	45.1	16.7	0.44		2.3	1.8	0.1	1.12	8.1	7.4	5.6	1.7	0.91	1.03	1.01	1.00	0.49	1.30		0.44	0.53				0.00	0.25
19.40	19.36	11.50	3.83	100.0	44.7	16.5	0.45		2.3	1.8	0.1	1.12	8.1	7.5	5.6	1.8	0.91	1.03	1.01	1.00	0.49	1.30		0.44	0.54				0.00	0.25
19.60	19.49	11.31	3.77	100.0	44.6	16.4	0.45		2.4	1.9	0.1	1.12	8.2	7.5	5.6	1.8	0.91	1.03	1.01	1.00	0.49	1.30		0.44	0.54				0.00	0.25
19.70	19.63	9.33	3.11	100.0	42.8	15.7	0.50		2.6	1.9	0.1	1.11	8.4	7.5	5.7	1.8	0.91	1.03	1.01	1.00	0.50	1.30		0.44	0.57				0.00	0.25
19.80	19.76	9.61	3.20	100.0	43.1	15.8	0.49		2.5	1.9	0.1	1.11	8.4	7.5	5.7	1.8	0.91	1.03	1.01	1.00	0.50	1.30		0.44	0.57				0.00	0.25
20.00	19.89	11.06	3.69	100.0	44.3	16.3	0.46		2.4	1.9	0.1	1.11	8.2	7.5	5.7	1.8	0.91	1.03	1.01	1.00	0.50	1.30		0.45	0.55				0.00	0.25
20.10	20.03	10.79	3.60	100.0	44.2	16.3	0.46		4.9	2.0	0.1	1.11	11.5	7.7	5.6	1.9	0.91	1.03	1.01	1.00	0.50	1.30		0.45	0.55				0.00	0.25
20.20	20.17	7.35	2.45	100.0	40.9	14.9	0.56		5.7	2.3	0.1	1.11	12.6	8.0	5.7	2.2	0.91	1.03	1.01	1.00	0.50	1.30		0.45	0.61				0.00	0.25
20.40	20.29	3.95	1.32	93.6	36.1	13.0	0.77		5.0	2.7	0.1	1.11	11.6	8.5	5.7	2.8	0.91	1.03	1.01	1.00	0.50	1.30		0.45	0.73				0.00	0.25
20.50	20.42	2.67	0.89	88.7	33.3	11.9	0.95		4.5	3.0	0.2	1.10	10.9	8.9	5.8	3.2	0.91	1.03	1.01	1.00	0.50	1.30		0.46	0.84				0.00	0.25
20.60	20.56	2.72	0.91	89.0	33.5	11.9	0.94		4.4	3.0	0.2	1.10	10.9	8.9	5.8	3.1	0.91	1.03	1.01	1.00	0.50	1.30		0.46	0.83				0.00	0.25
20.80	20.69	2.91	0.97	89.8	33.9	12.1	0.90		4.3	2.9	0.2	1.10	10.7	8.8	5.8	3.1	0.90	1.03	1.01	1.00	0.50	1.30		0.46	0.82				0.00	0.25
20.90	20.82	2.16	0.72	86.0	31.9	11.3	1.06		5.0	3.2	0.2	1.10	11.5	9.2	5.8	3.4	0.90	1.03	1.01	1.00	0.50	0.60	1.19	0.46	0.91				0.00	0.25
21.00	20.96	1.56	0.52	82.1	29.9	10.5	1.24		5.8	3.6	0.2	1.10	12.6	9.8	5.8	3.9	0.90	1.03	1.01	1.00	0.51	0.71	1.41	0.47	1.02				0.00	0.25
21.20	21.09	1.19	0.40	78.9	28.4	9.9	1.42		6.5	4.1	0.2	1.09	13.6	10.4	5.9	4.5	0.90	1.03	1.01	1.00	0.51	0.81	1.60	0.47	1.13				0.00	0.25
21.30	21.22	1.02	0.34	75.2	26.7	9.3	1.66		7.5	4.6	0.3	1.09	14.9	11.0	5.9	5.0	0.90	1.03	1.01	1.00	0.51	0.95	1.86	0.47	1.28				0.00	0.25
21.40	21.33	0.92	0.31	72.7	25.6	8.8	1.83		8.3	5.0	0.3	1.09	15.9	11.6	5.9	5.6	0.90	1.03	1.01	1.00	0.51	1.05	2.00	0.47	1.39				0.00	0.25
21.50	21.46	0.79	0.26	69.1	24.2	8.3	2.13		9.6	5.7	0.3	1.09	17.5	12.4	6.0	6.3	0.90	1.03	1.01	1.00	0.51	1.22	2.00	0.47	1.57				0.00	0.25
21.70	21.60	0.54	0.18	59.9	20.8	7.0	3.13		13.9	7.5	0.7	1.09	23.1	14.8	6.2	8.5	0.90	1.04	1.01	1.00	0.51	1.30	2.00	0.48	2.17				0.00	0.25
21.80	21.73	0.42	0.14	53.4	18.7	6.2	0.46	60.4	14.5	9.2	1.8	1.08	22.7	16.2	7.2	26.3	0.90	1.10	1.02	1.00	0.48	0.14	2.00	0.48	0.58				0.00	0.25
21.90	21.86	0.40	0.13	52.1	18.3	6.1	0.48	61.2	15.3	9.7	2.1	1.08	23.6	16.6	7.5	27.0	0.90	1.10	1.02	1.00	0.47	0.14	0.30	0.48	0.59	28.917		1.92	0.02	0.23
22.10	21.99	0.43	0.14	54.0	18.8	6.3	0.45	60.0	14.2	9.0	1.7	1.08	22.3	15.9	7.0	25.6	0.90	1.10	1.02	1.00	0.48	0.14	0.29	0.48	0.58	31.475		1.97	0.05	0.18
22.20	22.13	0.62	0.06	63.0	21.8	7.4	0.37	55.2	10.0	6.6	0.4	1.08	17.7	13.4	5.9	22.4	0.90	1.07	1.02	1.00	0.49	0.12	2.00	0.49	0.53				0.00	0.18
22.30	22.27	1.01	0.34	74.8	26.5	9.2	1.66		7.9	4.5	0.3	1.07	15.1	10.8	5.9	4.8	0.90	1.03	1.01	1.00	0.51	0.95	2.00	0.49	1.32				0.00	0.18
22.50	22.40	1.90	0.63	84.2	31.0	10.9	1.12		5.5	3.5	0.2	1.07	12.1	9.4	5.8	3.5	0.89	1.03	1.01	1.00	0.51	0.64	2.00	0.49	0.99				0.00	0.18
22.60	22.53	3.72	1.24	92.4	35.4	12.7	0.79		5.5	2.9	0.1	1.07	12.1	8.7	5.7	2.8	0.89	1.03	1.01	1.00	0.51	1.30		0.49	0.80				0.00	0.18
22.70	22.66	4.56	1.52	94.9	36.9	13.3	0.72		5.1	2.8	0.1	1.07	11.5	8.5	5.7	2.6	0.89	1.03	1.01	1.00	0.52	1.30		0.50	0.75				0.00	0.18
22.90	22.78	4.68	1.56	95.2	37.1	13.4	0.71		5.0	2.8	0.1	1.07	11.4	8.6	5.7	2.6	0.89	1.03	1.01	1.00	0.52	1.30		0.50	0.75				0.00	0.18
23.00	22.92	1.18	0.39	78.3	28.1	9.8	1.43		7.0	4.1	0.2	1.07	13.9	10.2	5.8	4.2	0.89	1.03	1.01	1.00	0.52	0.82	1.58	0.50	1.20				0.00	0.18
23.10	23.07	0.85	0.28	70.4	24.7	8.5	1.99		9.5	5.1	0.3	1.06	17.1	11.6	5.9	5.4	0.89	1.03	1.01	1.00	0.52	1.14	2.00	0.50	1.55				0.00	0.18
23.20	23.18	1.74	0.58	83.2	30.4	10.7	1.16		7.8	3.9	0.2	1.06	14.9	9.9	5.8	3.9	0.89	1.03	1.01	1.00	0.52	1.30		0.51	1.04				0.00	0.18
23.40	23.30	2.19	0.73	85.9	31.9	11.3	1.03		7.0	3.7	0.2	1.06	14.0	9.7	5.8	3.6	0.89	1.03	1.01	1.00	0.52	1.30		0.51	0.96				0.00	0.18
23.50	23.45	1.38	0.46	80.3	29.0	10.2	1.31		6.5	4.2	0.2	1.06	13.3	10.3	5.8	4.2	0.89	1.03	1.01	1.00	0.52	0.75	1.44	0.51	1.14				0.00	0.18
23.60	23.58	1.28	0.43	79.4	28.6	10.0	1.36		6.8	4.3	0.2	1.06	13.6	10.4	5.8	4.3	0.89	1.03	1.01	1.00	0.52	0.78	1.49	0.51	1.17				0.00	0.18
23.80	23.70	1.22	0.41	78.7	28.3	9.9	1.39		7.0	4.3	0.2	1.05	13.8	10.4	5.9	4.3	0.89	1.03	1.01	1.00	0.52	0.80	1.53	0.52	1.20				0.00	0.18
23.90	23.83	1.22	0.41	78.7	28.3	9.9	1.39		7.0	4.3	0.2	1.05	13.8	10.4	5.9	4.3	0.89	1.03	1.01	1.00	0.52	0.80	1.53	0.52	1.21				0.00	0.18
24.00	23.96	1.28	0.43	79.3	28.5	10.0	1.36		6.8	4.2	0.2	1.05	13.6	10.3	5.8	4.2	0.89	1.03	1.01	1.00	0.52	0.78	1.49	0.52	1.19				0.00	0.18
24.20	24.10	1.35	0.45	79.9	28.8	10.1	1.32		6.7	4.2	0.2	1.05	13.4	10.3	5.8	4.1	0.88	1.03	1.01	1.00	0.52	0.75	1.44	0.52	1.17				0.00	0.18
24.30	24.23	1.45	0.48	80.7	29.2	10.2	1.28		6.5	4.1	0.2	1.05	13.2	10.2	5.8	4.0	0.88	1.03	1.01	1.00	0.52	0.73	1.39	0.52	1.14				0.00	0.18
24.40	24.35	1.57	0.52	81.7	29.7	10.4	1.22		6.3	4.1	0.2	1.05	12.9	10.1	5.8	4.0	0.88	1.03	1.00	1.00	0.52	0.70	1.33	0.53	1.11				0.00	0.18
24.50	24.48	1.62	0.54	82.1	29.9	10.5	1.20		6.2	4.1	0.2	1.04	12.8	10.1	5.8	3.9	0.88	1.03	1.00	1.00	0.52	1.30		0.53	1.10				0.00	0.18
24.70	24.62	1.69	0.56	82.6	30.1	10.6	1.18		6.1	4.0	0.2	1.04	12.7	10.0	5.8	3.9	0.88	1.03	1.00	1.00	0.52	1.30		0.53	1.09				0.00	0.18
24.80	24.75	1.72	0.57	82.7	30.2	10.6	1.17		6.1	4.0	0.2	1.04	12.6	10.0	5.8	3.8	0.88	1.03	1.00	1.00	0.53	1.30		0.53	1.09				0.00	0.18
25.00	24.88	1.76	0.59	83.0	30.3	10.7	1.15		8.1	4.0	0.2	1.04	15.1	10.0	5.8	3.8	0.88	1.03	1.00	1.00	0.53	1.30		0.54	1.08				0.00	0.18
25.10	25.01	1.74	0.58	82.9	30.3	10.7	1.16		8.1	4.1	0.2	1.04	15.1	10.1	5.8	3.9	0.88	1.03	1.00	1.00	0.53	1.30		0.54	1.09				0.00	0.18
25.20	25.14	1.70	0.57	82.5	30.1	10.6	1.17		8.3	4.1	0.2	1.04	15.3	10.1	5.8	3.9	0.88	1.03	1.00	1.00	0.53	1.30		0.54	1.10				0.00	0.18
25.30	25.28	1.81	0.60	83.3	30.5	10.7	1.13		8.1	4.0	0.2	1.03	15.0	10.0	5.8	3.8	0.88	1.03	1.00	1.00	0.53	1.30		0.54	1.08				0.00	0.18
25.50	25.42	2.01	0.67	84.5	31.1	11.0	1.07		7.7	3.9	0.2	1.03	14.6	9.8	5.8	3.6	0.88	1.03	1.00	1.00	0.53	1.30		0.54	1.04				0.00	0.18
25.60	25.55	2.08	0.69	84.9	31.3	11.1	1.06		7.6	3.9	0.2	1.03	14.4	9.8	5.8	3.6	0.88	1.03	1.00	1.00	0.53	1.30		0.55	1.04				0.00	0.18
25.70	25.66	1.84	0.61	83.4	30.5	10.8	1.12		8.1	4.1	0.2	1.03	15.0	10.0	5.8	3.8	0.87	1.03	1.00	1.00	0.53	1.30		0.55	1.08				0.00	0.18
25.90	25.80	1.54	0.51	81.3	29.5	10.4	1.23		8.8	4.3	0.2	1.03	15.8	10.3	5.8	4.1	0.87	1.03	1.00	1.00	0.53	1.30		0.55	1.16				0.00	0.18
26.00	25.93	1.16	0.39	77.7	27.8	9.7	1.42		10.0	4.9	0.2	1.02	17.3	11.0	5.9	4.6	0.87	1.03	1.00	1.00	0.53	0.81	1.53	0.55	1.29				0.00	0.18
26.10	26.06	0.66	0.22	63.9	22.2	7.5	2.52		12.8	6.9	0.4	1.02	20.7	13.5	5.9	6.9	0.87	1.03	1.00	1.00	0.53	1.30	2.00	0.56	2.04				0.00	0.18
26.30	26.20	0.68	0.07	64.5	22.4	7.6	0.34	54.1	12.5	6.6	0.4	1.02	20.0	12.8	5.9	20.4	0.87	1.07	1.00	1.00	0.51	0.12	2.00	0.56	0.57				0.00	0.18
26.40	26.34	2.00	0.67	84.3	31.0	10.9	1.08		7.9	4.0	0.2	1.02	14.7	9.9	5.8	3.7	0.87	1.03	1.00	1.00	0.53	1.30	2.00	0.56	1.07				0.00	0.18
26.50	26.47	2.40	0.80	86.5	32.1	11.4	0.98		7.3	3.8	0.2	1.02	14.0	9.6	5.8	3.4	0.87	1.03	1.00	1.00	0.53	1.30	2.00	0.56	1.01				0.00	0.18
26.70	26.60	2.53	0.84	87.1	32.5	11.5	0.96		7.2	3.7	0.2	1.02	13.8	9.5	5.8	3.3	0.87	1.03	1.00	1.00	0.53	1.30		0.56	0.99				0.00	0.18
26.80	26.73	2.71	0.90	87.9	32.9	11.7	0.92		7.0	3.6	0.2	1.01	13.5	9.4	5.8	3.2	0.87	1.03	1.00	1.00	0.53	1.30		0.57	0.98				0.00	0.18
26.90	26.87	2.82	0.94	88.4	33.1	11.8	0.91		6.9	3.6	0.2	1.01	13.4	9.4	5.8	3.2	0.87	1.03	1.00	1.00	0.53	1.30		0.57	0.97				0.00	0.18
27.00	26.99	2.80	0.93	88.3	33.1	11.8	0.91		5.2	3.6	0.2	1.01	11.3	9.4	5.8	3.1	0.87	1.03	1.00	1.00	0.53	1.30		0.57	0.97				0.00	0.18
27.20	27.10	2.68	0.89	87.7	32.8	11.7	0.93		5.3	3.6	0.2	1.01	11.5	9.4	5.8	3.2	0.87	1.03	1.00	1.00	0.53	1.30		0.57	0.99				0.00	0.18

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Z_b (ft)	Z_m (ft)	$C_c/(1+e_0)$(%)	$C_r/(1+e_0)$(%)	μ_{FC}	μ_{LL}	μ_{PI}	K_0	D_R (%)	$N_{60L\&B}$	$(N_{60})_{1c}$	$(N_1)_{60l\&B}$	C_N	$(N_1)_{60csL\&R}$	$(N_1)_{60cs1c}$	$(N_1)_{60cs1\&B}$	$(N_1)_{60qc1ncs}$	r_d	MSF	K_σ	K_α	$CSR_{7.5}$	$CRR_{7.5}$	FS	τ_{av} (tsf)	p'(tsf)	γ_{max} (%)	G/G_0	ε_v (%)	ΔS_i	ΣS_i (in)
27.30	27.24	2.32	0.77	85.9	31.8	11.3	1.00		5.7	3.8	0.2	1.01	11.9	9.5	5.8	3.3	0.87	1.03	1.00	1.00	0.53	1.30		0.58	1.04				0.00	0.18
27.40	27.37	2.11	0.70	84.8	31.2	11.0	1.05		5.9	3.8	0.2	1.01	12.2	9.6	5.8	3.4	0.86	1.03	1.00	1.00	0.53	0.60	1.12	0.58	1.08				0.00	0.18
27.60	27.51	2.07	0.69	84.5	31.1	11.0	1.06		6.0	3.8	0.2	1.01	12.3	9.6	5.8	3.4	0.86	1.03	1.00	1.00	0.54	0.60	1.13	0.58	1.09				0.00	0.18
27.70	27.65	2.04	0.68	84.4	31.0	11.0	1.06		6.1	3.9	0.2	1.00	12.3	9.6	5.8	3.4	0.86	1.03	1.00	1.00	0.54	0.61	1.13	0.58	1.09				0.00	0.18
27.80	27.78	1.97	0.66	83.9	30.8	10.9	1.08		6.2	3.9	0.2	1.00	12.4	9.7	5.8	3.4	0.86	1.03	1.00	1.00	0.54	0.62	1.15	0.58	1.11				0.00	0.18
28.00	27.90	1.95	0.65	83.8	30.7	10.8	1.09		6.2	4.0	0.2	1.00	12.5	9.8	5.8	3.5	0.86	1.03	1.00	1.00	0.54	0.62	1.16	0.59	1.12				0.00	0.18
28.10	28.03	1.41	0.47	79.9	28.8	10.1	1.28		7.2	4.4	0.2	1.00	13.6	10.3	5.8	3.9	0.86	1.03	1.00	1.00	0.54	0.73	1.36	0.59	1.25				0.00	0.18
28.20	28.16	1.34	0.45	79.2	28.5	10.0	1.31		7.4	4.5	0.2	1.00	13.8	10.4	5.8	4.0	0.86	1.03	1.00	1.00	0.54	0.75	1.39	0.59	1.28				0.00	0.18
28.40	28.30	1.40	0.47	79.7	28.8	10.1	1.28		7.3	4.5	0.2	1.00	13.7	10.4	5.8	4.0	0.86	1.03	1.00	1.00	0.54	0.73	1.36	0.59	1.26				0.00	0.18
28.50	28.43	1.40	0.47	79.7	28.7	10.1	1.28		7.3	4.6	0.2	0.99	13.7	10.5	5.8	4.0	0.86	1.03	1.00	1.00	0.54	0.73	1.36	0.59	1.27				0.00	0.18
28.60	28.56	1.45	0.48	80.1	28.9	10.1	1.26		7.2	4.5	0.2	0.99	13.6	10.4	5.8	4.0	0.86	1.03	1.00	1.00	0.54	0.72	1.33	0.60	1.26				0.00	0.18
28.70	28.68	1.85	0.62	83.0	30.4	10.7	1.11		6.5	4.2	0.2	0.99	12.7	10.0	5.8	3.6	0.86	1.03	1.00	1.00	0.54	0.64	1.18	0.60	1.16				0.00	0.18
28.90	28.81	2.46	0.82	86.5	32.1	11.4	0.96		5.7	3.9	0.2	0.99	11.8	9.6	5.8	3.3	0.86	1.03	1.00	1.00	0.54	1.30		0.60	1.05				0.00	0.18
29.00	28.94	2.84	0.95	88.2	33.0	11.8	0.90		5.4	3.7	0.2	0.99	11.4	9.4	5.8	3.1	0.85	1.03	1.00	1.00	0.54	1.30		0.60	1.01				0.00	0.18
29.20	29.08	3.21	1.07	89.6	33.8	12.1	0.85		5.2	3.6	0.2	0.99	11.1	9.3	5.8	3.0	0.85	1.03	1.00	1.00	0.54	1.30		0.60	0.97				0.00	0.18
29.30	29.22	3.35	1.12	90.1	34.1	12.2	0.83		5.1	3.5	0.2	0.99	11.0	9.2	5.8	2.9	0.85	1.03	1.00	1.00	0.54	1.30		0.61	0.96				0.00	0.18
29.40	29.34	3.58	1.19	90.9	34.6	12.4	0.80		5.0	3.5	0.2	0.98	10.9	9.1	5.7	2.8	0.85	1.03	1.00	1.00	0.54	1.30		0.61	0.95				0.00	0.18
29.50	29.48	3.45	1.15	90.4	34.3	12.3	0.81		5.1	3.5	0.2	0.98	11.0	9.1	5.8	2.8	0.85	1.03	1.00	1.00	0.54	1.30		0.61	0.96				0.00	0.18
29.70	29.62	3.29	1.10	89.9	34.0	12.1	0.83		5.2	3.5	0.2	0.98	11.1	9.1	5.8	2.8	0.85	1.03	1.00	1.00	0.54	1.30		0.61	0.98				0.00	0.18
29.80	29.75	2.81	0.94	87.9	32.9	11.7	0.90		5.5	3.6	0.2	0.98	11.5	9.2	5.8	2.9	0.85	1.03	1.00	1.00	0.54	0.51	0.95	0.61	1.03				0.00	0.18
29.90	29.87	2.36	0.79	85.8	31.8	11.3	0.98		6.0	3.7	0.2	0.98	12.0	9.4	5.8	3.1	0.85	1.03	1.00	1.00	0.54	0.56	1.04	0.62	1.09				0.00	0.18
30.10	29.99	2.33	0.78	85.7	31.7	11.2	0.99		4.8	3.7	0.2	0.98	10.7	9.4	5.8	3.1	0.85	1.03	1.00	1.00	0.54	0.56	1.04	0.62	1.10				0.00	0.18
30.20	30.12	2.30	0.77	85.5	31.6	11.2	0.99		6.1	3.8	0.2	0.98	12.1	9.5	5.8	3.1	0.85	1.03	1.00	1.00	0.54	0.57	1.05	0.62	1.10				0.00	0.18
30.30	30.26	2.04	0.68	84.0	30.8	10.9	1.06		5.1	3.9	0.2	0.98	11.0	9.6	5.8	3.3	0.85	1.03	1.00	1.00	0.54	0.60	1.11	0.62	1.15				0.00	0.18
30.50	30.40	1.77	0.59	82.3	30.0	10.6	1.13		5.5	4.1	0.2	0.97	11.4	9.8	5.8	3.4	0.85	1.03	1.00	1.00	0.54	0.65	1.19	0.62	1.21				0.00	0.18
30.60	30.52	1.92	0.64	83.2	30.5	10.7	1.09		5.3	4.0	0.2	0.97	11.2	9.7	5.8	3.3	0.84	1.03	1.00	1.00	0.54	0.62	1.14	0.63	1.18				0.00	0.18
30.70	30.65	2.45	0.82	86.2	32.0	11.3	0.96		6.0	3.8	0.2	0.97	12.0	9.5	5.8	3.1	0.84	1.03	1.00	1.00	0.54	0.55	1.01	0.63	1.09				0.00	0.18
30.90	30.79	2.40	0.80	85.9	31.8	11.3	0.97		6.0	3.9	0.2	0.97	12.0	9.5	5.8	3.1	0.84	1.03	1.00	1.00	0.54	0.56	1.02	0.63	1.10				0.00	0.18
31.00	30.93	2.35	0.78	85.7	31.7	11.2	0.98		6.1	3.9	0.2	0.97	12.1	9.6	5.8	3.2	0.84	1.03	1.00	1.00	0.54	0.56	1.03	0.63	1.11				0.00	0.18
31.10	31.05	2.30	0.77	85.4	31.6	11.2	0.99		6.2	4.0	0.2	0.97	12.2	9.6	5.8	3.2	0.84	1.03	1.00	1.00	0.54	0.57	1.04	0.63	1.12				0.00	0.18
31.30	31.19	2.20	0.73	84.8	31.3	11.0	1.01		6.3	4.1	0.2	0.97	12.3	9.7	5.8	3.3	0.84	1.03	1.00	1.00	0.54	0.58	1.06	0.64	1.14				0.00	0.18
31.40	31.31	2.06	0.69	84.0	30.8	10.9	1.05		6.5	4.2	0.2	0.96	12.6	9.9	5.8	3.4	0.84	1.03	1.00	1.00	0.54	0.60	1.10	0.64	1.17				0.00	0.18
31.50	31.44	1.88	0.63	82.9	30.3	10.7	1.10		6.8	4.3	0.2	0.96	12.9	10.0	5.8	3.5	0.84	1.03	1.00	1.00	0.54	0.63	1.15	0.64	1.21				0.00	0.18
31.60	31.58	1.73	0.58	81.8	29.8	10.5	1.14		7.1	4.5	0.2	0.96	13.2	10.2	5.8	3.6	0.84	1.03	1.00	1.00	0.54	0.65	1.20	0.64	1.25				0.00	0.18
31.80	31.71	1.51	0.50	80.2	29.0	10.2	1.22		7.5	4.7	0.2	0.96	13.7	10.4	5.8	3.8	0.84	1.03	1.00	1.00	0.54	0.70	1.28	0.64	1.31				0.00	0.18
31.90	31.83	1.22	0.41	77.6	27.8	9.7	1.36		6.6	5.0	0.2	0.96	12.6	10.8	5.9	4.1	0.84	1.03	1.00	1.00	0.55	0.78	1.42	0.64	1.42				0.00	0.18
32.10	31.98	1.13	0.38	76.2	27.1	9.4	1.44		7.0	5.2	0.3	0.96	13.0	11.0	5.9	4.3	0.84	1.03	1.00	1.00	0.55	0.82	1.50	0.65	1.49				0.00	0.18
32.20	32.12	1.04	0.35	74.3	26.3	9.1	1.55		9.4	5.6	0.3	0.96	15.8	11.5	5.9	4.7	0.83	1.03	1.00	1.00	0.55	0.89	1.63	0.65	1.58				0.00	0.18
32.30	32.24	0.98	0.33	72.8	25.7	8.9	1.65		8.0	5.8	0.3	0.96	14.1	11.7	5.9	4.8	0.83	1.03	0.99	1.00	0.55	0.94	1.73	0.65	1.66				0.00	0.18
32.40	32.36	0.87	0.29	70.0	24.5	8.4	1.85		8.9	6.2	0.3	0.95	15.1	12.1	5.9	5.2	0.83	1.03	0.99	1.00	0.55	1.06	1.94	0.65	1.82				0.00	0.18
32.60	32.49	0.83	0.28	68.9	24.1	8.2	1.93		9.2	6.4	0.3	0.95	15.6	12.3	5.9	5.3	0.83	1.03	0.99	1.00	0.55	1.10	2.00	0.65	1.89				0.00	0.18
32.70	32.62	0.83	0.28	68.9	24.1	8.2	1.93		9.3	6.4	0.3	0.95	15.6	12.3	5.9	5.3	0.83	1.03	0.99	1.00	0.55	1.10	2.00	0.66	1.90				0.00	0.18
32.80	32.76	0.72	0.07	65.3	22.7	7.7	0.32	53.5	10.7	7.0	0.4	0.95	16.8	12.8	5.9	20.3	0.83	1.07	0.99	1.00	0.53	0.12	2.00	0.66	0.64				0.00	0.18
33.00	32.89	0.63	0.06	62.1	21.5	7.3	0.34	55.0	12.1	7.8	0.4	0.95	18.2	13.5	5.9	21.3	0.83	1.07	0.99	1.00	0.53	0.12	2.00	0.66	0.66				0.00	0.18
33.10	33.02	0.67	0.22	63.7	22.1	7.5	2.38		11.4	7.7	0.4	0.95	17.9	13.8	5.9	6.5	0.83	1.03	0.99	1.00	0.55	1.30	2.00	0.66	2.27				0.00	0.18
33.20	33.15	0.83	0.28	68.8	24.0	8.2	1.93		9.4	6.7	0.3	0.95	15.7	12.6	5.9	5.5	0.83	1.03	0.99	1.00	0.55	1.10	2.00	0.66	1.92				0.00	0.18
33.40	33.29	1.04	0.35	74.1	26.2	9.1	1.55		9.6	5.9	0.3	0.94	15.9	11.6	5.9	4.7	0.83	1.03	0.99	1.00	0.55	0.89	1.62	0.67	1.62				0.00	0.18
33.50	33.41	1.17	0.39	76.8	27.4	9.5	1.38		8.7	5.5	0.3	0.94	14.9	11.2	5.9	4.3	0.83	1.03	0.99	1.00	0.55	0.79	1.45	0.67	1.50				0.00	0.18
33.60	33.54	1.17	0.39	76.7	27.4	9.5	1.39		8.8	5.5	0.3	0.94	14.9	11.2	5.9	4.3	0.83	1.03	0.99	1.00	0.55	0.79	1.45	0.67	1.50				0.00	0.18
33.70	33.67	1.22	0.41	77.4	27.7	9.6	1.35		8.6	5.4	0.2	0.94	14.7	11.1	5.9	4.3	0.82	1.03	0.99	1.00	0.55	0.77	1.41	0.67	1.48				0.00	0.18
33.90	33.79	1.35	0.45	78.5	28.2	9.8	1.29		8.3	5.3	0.2	0.94	14.3	10.9	5.9	4.1	0.82	1.03	0.99	1.00	0.55	0.74	1.35	0.67	1.43				0.00	0.18
34.00	33.93	1.35	0.45	78.5	28.2	9.8	1.28		8.3	5.3	0.2	0.94	14.3	11.0	5.9	4.1	0.82	1.03	0.99	1.00	0.55	0.73	1.34	0.68	1.43				0.00	0.18
34.10	34.08	1.37	0.46	78.6	28.2	9.9	1.28		8.3	5.3	0.2	0.94	14.3	11.0	5.8	4.1	0.82	1.03	0.99	1.00	0.55	0.73	1.34	0.68	1.43				0.00	0.18
34.30	34.20	1.30	0.43	78.0	27.9	9.7	1.31		8.5	5.4	0.2	0.93	14.5	11.1	5.9	4.2	0.82	1.03	0.99	1.00	0.55	0.75	1.37	0.68	1.46				0.00	0.18
34.40	34.32	1.13	0.38	75.9	27.0	9.4	1.43		9.2	5.7	0.3	0.93	15.3	11.4	5.9	4.5	0.82	1.03	0.99	1.00	0.55	0.82	1.49	0.68	1.56				0.00	0.18
34.50	34.47	1.07	0.36	74.5	26.4	9.1	1.51		9.7	6.0	0.3	0.93	15.8	11.7	5.9	4.7	0.82	1.03	0.99	1.00	0.55	0.86	1.57	0.68	1.63				0.00	0.18
34.60	34.60	1.06	0.35	74.3	26.3	9.1	1.52		9.8	6.1	0.3	0.93	15.9	11.8	5.9	4.8	0.82	1.03	0.99	1.00	0.55	0.87	1.59	0.69	1.65				0.00	0.18
34.80	34.72	1.02	0.34	73.3	25.9	8.9	1.58		10.1	6.3	0.3	0.93	16.3	12.0	5.9	4.9	0.82	1.03	0.99	1.00	0.55	0.90	1.65	0.69	1.70				0.00	0.18
34.90	34.85	0.97	0.32	72.2	25.4	8.8	1.65		10.6	6.4	0.3	0.93	16.8	12.2	5.9	5.0	0.82	1.03	0.99	1.00	0.55	0.94	1.72	0.69	1.76				0.00	0.18
35.10	34.98	0.97	0.32	72.1	25.3	8.7	1.66		10.7	6.5	0.3	0.93	16.8	12.2	5.9	5.1	0.82	1.03	0.99	1.00	0.55	0.95	1.73	0.69	1.78				0.00	0.18
35.20	35.11	0.99	0.33	72.7	25.6	8.8	1.61		10.4	6.4	0.3	0.92	16.6	12.1	5.9	4.9	0.82	1.03	0.99	1.00	0.55	0.92	1.69	0.69	1.74				0.00	0.18
35.30	35.24	1.05	0.35	74.0	26.2	9.1	1.53		10.0	6.1	0.3	0.92	16.0	11.8	5.9	4.7	0.81	1.03	0.99	1.00	0.55	0.87	1.60	0.70	1.68				0.00	0.18
35.40	35.38	1.09	0.36	74.8	26.5	9.2	1.48		9.7	6.0	0.3	0.92	15.7	11.7	5.9	4.6	0.81	1.03	0.99	1.00	0.55	0.84	1.54	0.70	1.64				0.00	0.18
35.60	35.50	1.07	0.36	74.4	26.4	9.1	1.50		9.8	6.2	0.3	0.92	15.9	11.8	5.9	4.7	0.81	1.03	0.99	1.00	0.55	0.86	1.56	0.70	1.66				0.00	0.18
35.70	35.65	1.06	0.35	74.0	26.2	9.1	1.52		10.0	6.3	0.3	0.92	16.1	11.9	5.9	4.8	0.81	1.03	0.99	1.00	0.55	0.87	1.59	0.70	1.69				0.00	0.18
35.80	35.78	1.08	0.36	74.4	26.4	9.1	1.49		9.9	6.3	0.3	0.92	15.9	11.9	5.9	4.8	0.81	1.03	0.99	1.00	0.55	0.85	1.56	0.70	1.67				0.00	0.18
36.00	35.90	1.09	0.36	74.7	26.5	9.2	1.47		9.8	6.3	0.3	0.92	15.8	11.9	5.9	4.8	0.81	1.03	0.99	1.00	0.55	0.84	1.54	0.71	1.66				0.00	0.18
36.10	36.04	1.01	0.34	72.9	25.7	8.9	1.59		10.5	6.6	0.3	0.92	16.5	12.3	5.9	5.0	0.81	1.03	0.99	1.00	0.55	0.91	1.66	0.71	1.76				0.00	0.18
36.20	36.17	0.91	0.30	70.3	24.6	8.5	1.77		11.6	7.2	0.3	0.91	17.7	12.9	5.9	5.5	0.81	1.03	0.99	1.00	0.55	1.01	1.85	0.71	1.91				0.00	0.18

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Z_b (ft)	Z_m (ft)	$C_c/(1+e_0)$(%)	$C_r/(1+e_0)$(%)	μ_{FC}	μ_{LL}	μ_{PI}	K_0	D_R (%)	$N_{60L\&B}$	$(N_{60})_{1c}$	$(N_1)_{60l\&B}$	C_N	$(N_1)_{60csL\&R}$	$(N_1)_{60cs1c}$	$(N_1)_{60cs1\&B}$	$(N_1)_{60qc1ncs}$	r_d	MSF	K_σ	K_α	$CSR_{7.5}$	$CRR_{7.5}$	FS	τ_{av} (tsf)	p'(tsf)	γ_{max} (%)	G/G_0	ε_v (%)	ΔS_i	ΣS_i (in)
36.40	36.30	0.88	0.29	69.4	24.3	8.3	1.83		12.0	7.5	0.3	0.91	18.2	13.2	5.9	5.7	0.81	1.03	0.99	1.00	0.55	1.05	1.91	0.71	1.97				0.00	0.18
36.50	36.44	0.84	0.28	68.3	23.8	8.2	1.91		12.5	7.7	0.3	0.91	18.7	13.4	6.0	5.9	0.81	1.03	0.99	1.00	0.55	1.09	1.99	0.71	2.05				0.00	0.18
36.60	36.57	0.85	0.28	68.6	23.9	8.2	1.89		12.4	7.5	0.3	0.91	18.6	13.2	6.0	5.7	0.81	1.03	0.99	1.00	0.55	1.08	1.97	0.72	2.03				0.00	0.18
36.80	36.69	0.94	0.31	71.0	24.9	8.6	1.71		11.4	7.1	0.3	0.91	17.4	12.7	5.9	5.3	0.80	1.03	0.99	1.00	0.55	0.98	1.78	0.72	1.89				0.00	0.18
36.90	36.83	0.97	0.32	71.7	25.2	8.7	1.66		14.8	7.2	0.3	0.91	21.1	12.9	5.9	5.4	0.80	1.03	0.99	1.00	0.55	0.95	1.73	0.72	1.85				0.00	0.18
37.00	36.96	0.83	0.28	67.9	23.7	8.1	1.93		25.6	8.3	0.3	0.91	32.9	14.0	6.0	6.3	0.80	1.03	0.99	1.00	0.55	1.10	2.00	0.72	2.09				0.00	0.18
37.20	37.08	0.50	0.17	55.5	19.3	6.4	3.20		27.5	12.0	0.9	0.90	34.9	18.0	6.5	9.3	0.80	1.04	0.99	1.00	0.55	1.30	2.00	0.72	3.19				0.00	0.18
37.30	37.22	0.28	0.09	42.2	15.5	5.0	0.51	67.8	27.8	17.0	5.9	0.90	32.6	21.6	11.1	34.6	0.80	1.16	0.97	1.00	0.50	0.18	2.00	0.73	0.88				0.00	0.18
37.40	37.36	0.79	0.26	32.9	13.3	4.3	0.62	74.2	33.6	22.5	11.9	0.90	35.6	24.9	16.0	32.4	0.80	1.26	0.97	1.00	0.46	0.30	2.00	0.73	0.97				0.00	0.18
37.50	37.48	0.63	0.21	25.8	11.8	3.7	0.71	78.0	33.6	28.0	18.6	0.90	33.3	28.0	21.1	32.6	0.80	1.35	0.96	1.00	0.43	0.50	1.16	0.73	1.05	2.534		0.57	0.01	0.17
37.70	37.61	0.62	0.21	25.3	11.8	3.7	0.71	78.5	34.3	28.5	19.1	0.90	33.8	28.4	21.6	33.1	0.80	1.36	0.96	1.00	0.43	0.54	1.27	0.73	1.06	2.038		0.45	0.01	0.16
37.80	37.76	0.75	0.25	29.2	12.5	4.0	0.66	76.9	39.3	25.5	15.1	0.90	39.8	26.9	18.7	33.3	0.80	1.32	0.96	1.00	0.44	0.42	0.96	0.73	1.02	3.801		0.89	0.01	0.15
37.90	37.88	0.22	0.07	36.7	14.2	4.6	0.57	71.2	29.1	19.9	9.1	0.89	31.7	22.9	13.6	31.0	0.80	1.20	0.97	1.00	0.48	0.23	0.48	0.74	0.94	12.340		2.26	0.03	0.12
38.10	38.00	0.39	0.13	50.0	17.6	5.8	0.43	61.7	20.7	12.7	2.8	0.89	25.3	17.3	8.0	26.3	0.80	1.11	0.97	1.00	0.52	0.14	2.00	0.74	0.82				0.00	0.12
38.20	38.13	0.73	0.24	64.6	22.4	7.6	2.18		14.8	8.9	0.4	0.89	20.8	14.5	6.0	6.6	0.80	1.03	0.99	1.00	0.55	1.25	2.00	0.74	2.37				0.00	0.12
38.30	38.27	0.84	0.28	68.0	23.7	8.1	1.89		17.4	8.2	0.3	0.89	23.6	13.7	6.0	6.0	0.79	1.03	0.99	1.00	0.55	1.08	2.00	0.74	2.13				0.00	0.12
38.50	38.40	0.52	0.17	56.5	19.6	6.6	3.03		16.2	11.1	0.7	0.89	22.3	16.8	6.2	8.3	0.79	1.04	0.98	1.00	0.55	1.30	2.00	0.74	3.15				0.00	0.12
38.60	38.53	0.27	0.09	41.6	15.4	5.0	0.51	66.9	24.2	16.7	6.3	0.89	27.0	19.8	10.8	26.3	0.79	1.15	0.97	1.00	0.50	0.18	2.00	0.75	0.91				0.00	0.12
38.70	38.66	0.26	0.09	40.5	15.1	4.9	0.53	67.6	25.3	17.3	6.8	0.89	27.8	20.2	11.3	26.6	0.79	1.16	0.97	1.00	0.50	0.18	0.37	0.75	0.92	17.416		2.55	0.03	0.09
38.90	38.79	0.38	0.13	49.5	17.5	5.8	0.43	62.2	21.4	13.3	3.0	0.89	26.0	17.8	8.2	28.2	0.79	1.11	0.97	1.00	0.52	0.15	0.28	0.75	0.84	26.924		1.93	0.05	0.05
39.00	38.92	0.45	0.05	53.5	18.7	6.2	0.40	59.1	18.3	11.2	1.9	0.88	22.6	15.6	7.0	22.8	0.79	1.09	0.97	1.00	0.52	0.13	0.25	0.75	0.81	33.518		2.17	0.03	0.02
39.10	39.07	0.58	0.06	59.5	20.6	6.9	0.34	55.8	14.5	9.2	0.7	0.88	19.4	14.0	6.1	21.1	0.79	1.08	0.97	1.00	0.53	0.12	2.00	0.75	0.77				0.00	0.02
39.30	39.20	0.69	0.23	63.3	22.0	7.4	2.27		15.8	8.6	0.4	0.88	21.7	14.1	5.9	6.2	0.79	1.03	0.98	1.00	0.54	1.30	2.00	0.76	2.52				0.00	0.02
39.40	39.33	1.43	0.48	78.1	28.0	9.8	1.25		18.3	6.5	0.2	0.88	24.4	11.8	5.8	4.4	0.79	1.03	0.99	1.00	0.54	1.30	2.00	0.76	1.59				0.00	0.02
39.50	39.47	0.83	0.28	67.5	23.5	8.0	1.91		27.0	8.7	0.4	0.88	33.5	14.2	6.0	6.2	0.79	1.03	0.98	1.00	0.54	1.09	2.00	0.76	2.20				0.00	0.02
39.60	39.59	0.44	0.15	52.6	18.4	6.1	3.51		23.9	13.0	1.3	0.88	30.2	18.7	6.9	9.6	0.79	1.04	0.98	1.00	0.54	1.30	2.00	0.76	3.68				0.00	0.02
39.80	39.71	0.70	0.23	30.1	12.7	4.0	0.64	73.6	29.0	24.3	14.3	0.88	28.5	24.2	16.9	28.0	0.79	1.24	0.96	1.00	0.46	0.28	2.00	0.76	1.05				0.00	0.02
39.90	39.84	0.38	0.13	14.5	9.8	3.0	0.85	83.3	43.5	40.0	34.6	0.87	38.1	35.1	34.6	35.2	0.78	1.45	0.94	1.00	0.41	1.30	2.00	0.76	1.24				0.00	0.02
40.00	39.97	0.23	0.08	8.6	8.9	2.7	0.94	91.9	55.3	48.9	46.2	0.87	48.2	42.7	46.2	42.7	0.78	1.45	0.92	1.00	0.42	1.30	2.00	0.77	1.33	0.000		0.00	0.00	0.02
40.20	40.11	0.23	0.08	7.6	8.8	2.7	0.95	93.3	57.6	50.8	48.4	0.87	50.2	44.3	48.4	44.3	0.78	1.45	0.92	1.00	0.42	1.30	2.00	0.77	1.35	0.000		0.00	0.00	0.02
40.30	40.25	0.23	0.08	7.1	8.7	2.6	0.96	93.9	58.7	51.9	49.3	0.87	51.1	45.2	49.3	45.2	0.78	1.45	0.92	1.00	0.42	1.30	2.00	0.77	1.36	0.000		0.00	0.00	0.02
40.40	40.37	0.23	0.08	7.6	8.8	2.7	0.95	93.3	57.6	51.5	48.3	0.87	50.1	44.8	48.3	44.8	0.78	1.45	0.92	1.00	0.42	1.30	2.00	0.77	1.36	0.000		0.00	0.00	0.02
40.60	40.50	0.23	0.08	8.4	8.9	2.7	0.94	92.3	56.0	50.3	46.8	0.87	48.6	43.7	46.8	43.7	0.78	1.45	0.91	1.00	0.42	1.30	2.00	0.78	1.35	0.000		0.00	0.00	0.02
40.70	40.63	0.33	0.11	8.1	8.9	2.7	0.94	92.6	56.6	51.3	47.3	0.87	49.0	44.4	47.3	44.4	0.78	1.45	0.91	1.00	0.42	1.30	2.00	0.78	1.36	0.000		0.00	0.00	0.02
40.80	40.75	0.32	0.11	6.9	8.7	2.6	0.96	94.4	59.7	54.5	50.0	0.86	51.6	47.1	50.0	47.1	0.78	1.45	0.91	1.00	0.42	1.30	2.00	0.78	1.38	0.000		0.00	0.00	0.02
41.00	40.89	0.32	0.11	6.4	8.6	2.6	0.97	95.0	60.9	55.8	50.9	0.86	52.6	48.3	50.9	48.1	0.78	1.45	0.91	1.00	0.42	1.30	2.00	0.78	1.39	0.000		0.00	0.00	0.02
41.10	41.03	0.23	0.08	8.5	8.9	2.7	0.93	92.2	56.0	49.7	46.6	0.86	48.3	42.8	46.6	42.8	0.78	1.45	0.91	1.00	0.42	1.30	2.00	0.78	1.36	0.000		0.00	0.00	0.02
41.20	41.16	0.25	0.08	11.3	9.3	2.9	0.89	88.1	50.1	44.2	40.7	0.86	43.1	38.0	40.7	38.0	0.78	1.45	0.92	1.00	0.41	1.30	2.00	0.79	1.32	0.000		0.00	0.00	0.02
41.40	41.29	0.38	0.13	14.4	9.8	3.0	0.84	83.6	44.4	40.2	34.8	0.86	38.1	34.5	34.9	34.5	0.78	1.45	0.93	1.00	0.41	1.30	2.00	0.79	1.28	0.000		0.00	0.00	0.02
41.50	41.42	0.40	0.13	17.1	10.3	3.2	0.80	79.7	39.9	37.2	30.3	0.86	34.4	32.1	30.3	33.0	0.77	1.40	0.94	1.00	0.42	0.68	1.64	0.79	1.25	0.827		0.18	0.00	0.02
41.60	41.55	0.62	0.21	18.3	10.5	3.2	0.78	79.0	38.1	37.0	28.4	0.86	33.5	32.6	29.0	35.4	0.77	1.37	0.94	1.00	0.42	0.60	1.40	0.79	1.23	1.536		0.33	0.00	0.02
41.80	41.69	0.55	0.18	19.3	10.7	3.3	0.77	83.2	45.8	37.0	26.9	0.85	41.4	33.7	28.5	38.2	0.77	1.45	0.93	1.00	0.41	1.30	2.00	0.79	1.22	0.000		0.00	0.00	0.02
41.90	41.82	0.52	0.17	19.7	10.7	3.3	0.76	85.2	45.1	37.4	26.4	0.85	41.6	34.8	28.7	40.8	0.77	1.45	0.92	1.00	0.41	1.30	2.00	0.80	1.22	0.000		0.00	0.00	0.02
42.00	41.93	0.50	0.17	17.9	10.4	3.2	0.78	86.4	48.5	39.7	29.0	0.85	44.1	36.4	31.0	42.0	0.77	1.45	0.92	1.00	0.41	1.30	2.00	0.80	1.25	0.000		0.00	0.00	0.02
42.10	42.07	0.54	0.18	15.0	9.9	3.1	0.82	83.8	54.6	42.5	33.8	0.85	47.6	37.1	34.4	40.3	0.77	1.45	0.93	1.00	0.41	1.30	2.00	0.80	1.29	0.000		0.00	0.00	0.02
42.30	42.20	0.37	0.12	13.2	9.6	3.0	0.85	85.5	47.1	43.9	37.2	0.85	40.2	37.5	37.3	38.4	0.77	1.45	0.92	1.00	0.41	1.30	2.00	0.80	1.32	0.000		0.00	0.00	0.02
42.40	42.34	0.35	0.12	11.4	9.3	2.9	0.88	88.2	50.7	46.0	40.8	0.85	43.0	39.0	40.8	39.0	0.77	1.45	0.91	1.00	0.41	1.30	2.00	0.80	1.35	0.000		0.00	0.00	0.02
42.50	42.47	0.36	0.12	11.8	9.4	2.9	0.87	87.6	49.9	45.2	39.9	0.85	42.2	38.2	39.9	38.2	0.77	1.45	0.91	1.00	0.41	1.30	2.00	0.81	1.35	0.000		0.00	0.00	0.02
42.70	42.60	0.37	0.12	13.6	9.7	3.0	0.84	85.0	46.5	42.2	36.5	0.84	39.3	35.6	36.5	35.6	0.77	1.45	0.92	1.00	0.41	1.30	2.00	0.81	1.33	0.000		0.00	0.00	0.02
42.80	42.73	0.39	0.13	15.6	10.0	3.1	0.81	82.0	42.9	39.0	32.9	0.84	36.2	32.9	32.9	32.9	0.77	1.45	0.93	1.00	0.41	1.19	2.00	0.81	1.30	0.000		0.00	0.00	0.02
42.90	42.86	0.40	0.13	16.5	10.2	3.1	0.80	80.7	41.5	38.0	31.4	0.84	35.0	32.0	31.4	31.9	0.77	1.43	0.93	1.00	0.41	0.85	2.00	0.81	1.29	0.000		0.00	0.00	0.02
43.10	43.00	0.41	0.14	17.5	10.3	3.2	0.78	79.2	40.0	37.3	29.8	0.84	33.8	31.6	29.8	32.4	0.76	1.38	0.93	1.00	0.42	0.63	1.49	0.81	1.28	1.245		0.27	0.01	0.01
43.20	43.13	0.42	0.14	18.4	10.5	3.3	0.77	77.9	38.5	36.7	28.3	0.84	32.9	31.3	28.5	33.1	0.76	1.34	0.94	1.00	0.43	0.49	1.13	0.82	1.27	2.701		0.61	0.01	0.00
43.30	43.26	0.60	0.20	18.6	10.5	3.3	0.76	79.8	47.9	37.6	28.1	0.84	41.5	32.7	28.8	35.8	0.76	1.40	0.93	1.00	0.42	0.71	1.71	0.82	1.27	0.650		0.14	0.00	0.00
43.50	43.40	0.57	0.19	17.8	10.4	3.2	0.77	81.9	49.4	39.0	29.2	0.84	42.9	34.0	30.1	37.5	0.76	1.45	0.92	1.00	0.41	1.15	2.00	0.82	1.28	0.000		0.00	0.00	0.00
43.60	43.52	0.56	0.19	16.7	10.2	3.2	0.79	82.7	51.8	40.7	31.1	0.84	44.6	35.2	31.8	38.6	0.76	1.45	0.92	1.00	0.41	1.30	2.00	0.82	1.30	0.000		0.00	0.00	0.00
43.70	43.65	0.57	0.19	16.4	10.2	3.1	0.79	81.8	42.0	40.8	31.6	0.83	36.0	35.0	32.1	37.9	0.76	1.45	0.92	1.00	0.41	1.12	2.00	0.82	1.31	0.000		0.00	0.00	0.00
43.90	43.78	0.39	0.13	15.9	10.1	3.1	0.80	81.6	42.8	40.6	32.4	0.83	36.1	34.3	32.5	36.0	0.76	1.45	0.92	1.00	0.40	1.07	2.00	0.82	1.32	0.000		0.00	0.00	0.00
44.00	43.91	0.39	0.13	16.4	10.1	3.1	0.79	80.9	42.2	39.8	31.7	0.83	35.5	33.5	31.8	35.0	0.76	1.44	0.92	1.00	0.41	0.91	2.00	0.83	1.32	0.000		0.00	0.00	0.00
44.10	44.03	0.39	0.13	16.3	10.1	3.1	0.79	81.0	42.3	39.8	31.8	0.83	35.5	33.3	31.8	34.6	0.76	1.44	0.92	1.00	0.41	0.93	2.00	0.83	1.32	0.000		0.00	0.00	0.00
44.20	44.16	0.39	0.13	16.0	10.1	3.1	0.80	81.5	42.9	40.0	32.3	0.83	35.8	33.3	32.3	34.2	0.76	1.45	0.92	1.00	0.40	1.05	2.00	0.83	1.33	0.000		0.00	0.00	0.00
44.40	44.30	0.39	0.13	15.5	10.0	3.1	0.80	82.3	43.8	41.7	33.2	0.83	36.8	35.1	33.3	37.1	0.76	1.45	0.92	1.00	0.41	1.29	2.00	0.83	1.34	0.000		0.00	0.00	0.00
44.50	44.44	0.39	0.13	15.6	10.0	3.1	0.80	82.1	43.7	41.8	33.0	0.83	36.7	35.1	33.2	37.2	0.76	1.45	0.92	1.00	0.41	1.25	2.00	0.83	1.34	0.000		0.00	0.00	0.00
44.60	44.58	0.38	0.13	14.8	9.9	3.0	0.81	83.4	45.3	43.0	34.5	0.83	37.8	35.9	34.7	37.8	0.75	1.45	0.91	1.00	0.41	1.30	2.00	0.84	1.36	0.000		0.00	0.00	0.00
44.80	44.70	0.37	0.12	13.4	9.7	3.0	0.83	85.5	47.9	45.1	37.1	0.82	39.9	37.6	37.2	39.2	0.75	1.45	0.91	1.00	0.41	1.30	2.00	0.84	1.38	0.000		0.00	0.00	0.00
44.90	44.83	0.35	0.12	10.7	9.2	2.8	0.87	89.5	53.4	48.8	42.5	0.82	44.0	40.2	42.5	40.1	0.75	1.45	0.89	1.00	0.42	1.30	2.00	0.84	1.42	0.000		0.00	0.00	0.00
45.00	44.98	0.24	0.08	9.4	9.0	2.8	0.89	91.5	56.3	50.1	45.5	0.82	46.3	41.2	45.5	41.2	0.75	1.45	0.88	1.00	0.42	1.30	2.00	0.84	1.45	0.000		0.00	0.00	0.00
45.20	45.10	0.24	0.08	10.1	9.2	2.8	0.87	90.4	54.7	48.4	43.8	0.82	44.9	39.7	43.8	39.7	0.75	1.45	0.88	1.00	0.42	1.30	2.00	0.84	1.44	0.000		0.00	0.00	0.00
45.30	45.22	0.25	0.08	11.1	9.3	2.8	0.86	88.9	52.7	46.7	41.7	0.82	43.2	38.2	41.7	38.2	0.75	1.45	0.89	1.00	0.42	1.30	2.00	0.85	1.43	0.000		0.00	0.00	0.00

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Z_b (ft)	Z_m (ft)	$C_c/(1+e_0)$(%)	$C_r/(1+e_0)$(%)	μ_{FC}	μ_{LL}	μ_{PI}	K_0	D_R (%)	$N_{60L\&B}$	$(N_{60})_{Ic}$	$(N_1)_{60I\&B}$	C_N	$(N_1)_{60csL\&R}$	$(N_1)_{60csIc}$	$(N_1)_{60csI\&B}$	$(N_1)_{60qcIncs}$	r_d	MSF	K_σ	K_α	$CSR_{7.5}$	$CRR_{7.5}$	FS	τ_{av} (tsf)	p'(tsf)	γ_{max} (%)	G/G_0	ε_v (%)	ΔS_i	ΣS_i (in)
45.40	45.35	0.25	0.08	11.6	9.4	2.9	0.85	88.2	51.8	45.8	40.7	0.82	42.4	37.5	40.7	37.5	0.75	1.45	0.89	1.00	0.42	1.30	2.00	0.85	1.42	0.000		0.00	0.00	0.00
45.50	45.48	0.27	0.09	13.8	9.7	3.0	0.82	84.9	47.4	42.9	36.3	0.82	38.8	35.0	36.3	35.0	0.75	1.45	0.90	1.00	0.41	1.30	2.00	0.85	1.39	0.000		0.00	0.00	0.00
45.70	45.62	0.38	0.13	15.4	10.0	3.1	0.79	82.5	44.6	41.4	33.4	0.82	36.5	33.9	33.4	34.6	0.75	1.45	0.91	1.00	0.41	1.30	2.00	0.85	1.37	0.000		0.00	0.00	0.00
45.80	45.76	0.39	0.13	15.5	10.0	3.1	0.79	82.3	44.4	42.0	33.2	0.81	36.6	34.6	33.3	36.2	0.75	1.45	0.91	1.00	0.41	1.30	2.00	0.85	1.37	0.000		0.00	0.00	0.00
45.90	45.88	0.39	0.13	15.6	10.0	3.1	0.79	82.3	44.3	42.5	33.1	0.81	36.7	35.2	33.3	37.5	0.75	1.45	0.91	1.00	0.41	1.29	2.00	0.85	1.37	0.000		0.00	0.00	0.00
46.10	46.00	0.38	0.13	15.5	10.0	3.1	0.79	82.7	44.5	43.0	33.2	0.81	37.0	35.7	33.6	38.4	0.75	1.45	0.91	1.00	0.41	1.30	2.00	0.86	1.38	0.000		0.00	0.00	0.00
46.20	46.14	0.53	0.18	14.5	9.8	3.0	0.80	84.9	58.1	45.2	35.2	0.81	48.3	37.7	35.7	40.9	0.74	1.45	0.90	1.00	0.41	1.30	2.00	0.86	1.40	0.000		0.00	0.00	0.00
46.30	46.28	0.36	0.12	12.4	9.5	2.9	0.83	87.1	50.5	48.3	39.1	0.81	41.5	39.7	39.4	42.3	0.74	1.45	0.89	1.00	0.41	1.30	2.00	0.86	1.43	0.000		0.00	0.00	0.00
46.50	46.40	0.34	0.11	10.6	9.2	2.8	0.86	89.9	54.3	52.2	42.9	0.81	44.7	43.0	43.2	46.0	0.74	1.45	0.87	1.00	0.42	1.30	2.00	0.86	1.46	0.000		0.00	0.00	0.00
46.60	46.54	0.41	0.14	9.8	9.1	2.8	0.87	92.4	70.3	55.0	44.8	0.81	58.2	45.6	45.4	49.9	0.74	1.45	0.87	1.00	0.42	1.30	2.00	0.86	1.48	0.000		0.00	0.00	0.00
46.70	46.67	0.40	0.13	9.4	9.0	2.8	0.87	93.1	71.7	56.0	45.8	0.81	59.2	46.4	46.4	50.8	0.74	1.45	0.87	1.00	0.42	1.30	2.00	0.87	1.49	0.000		0.00	0.00	0.00
46.90	46.80	0.40	0.13	11.3	9.3	2.9	0.84	93.0	66.5	53.1	41.6	0.80	55.7	44.6	42.9	50.1	0.74	1.45	0.87	1.00	0.42	1.30	2.00	0.87	1.46	0.000		0.00	0.00	0.00
47.00	46.94	0.44	0.15	12.7	9.6	2.9	0.82	90.4	62.9	50.0	38.7	0.80	52.4	41.9	39.8	46.7	0.74	1.45	0.87	1.00	0.42	1.30	2.00	0.87	1.44	0.000		0.00	0.00	0.00
47.10	47.06	0.35	0.12	12.0	9.4	2.9	0.83	87.8	51.9	48.4	40.2	0.80	41.9	39.1	40.2	40.2	0.74	1.45	0.88	1.00	0.42	1.30	2.00	0.87	1.46	0.000		0.00	0.00	0.00
47.30	47.19	0.23	0.08	7.9	8.8	2.7	0.89	93.8	61.2	55.1	49.0	0.80	49.0	44.1	49.0	44.1	0.74	1.45	0.87	1.00	0.42	1.30	2.00	0.87	1.53	0.000		0.00	0.00	0.00
47.40	47.32	0.21	0.07	5.4	8.5	2.6	0.93	97.1	56.2	59.4	54.2	0.80	45.0	47.5	54.2	47.5	0.74	1.45	0.87	1.00	0.42	1.30	2.00	0.87	1.58	0.000		0.00	0.00	0.00
47.50	47.44	0.20	0.07	3.6	8.2	2.5	0.96	99.5	60.4	62.2	58.2	0.80	48.3	49.7	58.2	49.7	0.74	1.45	0.87	1.00	0.42	1.30	2.00	0.88	1.61	0.000		0.00	0.00	0.00
47.60	47.58	0.20	0.07	0.7	7.8	2.3	1.00	100.0	68.1	67.6	65.5	0.80	54.3	53.9	65.5	53.9	0.74	1.45	0.86	1.00	0.42	1.30	2.00	0.88	1.67	0.000		0.00	0.00	0.00
47.80	47.72	0.20	0.07	0.0	7.6	2.3	1.04	100.0	73.5	72.6	70.7	0.80	58.6	57.8	70.7	57.8	0.73	1.45	0.86	1.00	0.42	1.30	2.00	0.88	1.71	0.000		0.00	0.00	0.00
47.90	47.85	0.20	0.07	0.0	7.7	2.3	1.03	100.0	72.1	72.1	69.2	0.80	57.3	57.3	69.2	57.3	0.73	1.45	0.86	1.00	0.42	1.30	2.00	0.88	1.70	0.000		0.00	0.00	0.00
48.00	47.98	0.20	0.07	0.8	7.9	2.4	1.00	100.0	68.0	68.6	65.3	0.79	54.0	54.5	65.3	54.5	0.73	1.45	0.86	1.00	0.42	1.30	2.00	0.88	1.68	0.000		0.00	0.00	0.00
48.20	48.11	0.20	0.07	2.9	8.1	2.4	0.96	100.0	62.7	64.1	60.2	0.79	49.7	50.8	60.2	50.8	0.73	1.45	0.86	1.00	0.42	1.30	2.00	0.89	1.64	0.000		0.00	0.00	0.00
48.30	48.25	0.21	0.07	4.5	8.3	2.5	0.94	98.5	58.9	61.4	56.5	0.79	46.7	48.6	56.5	48.6	0.73	1.45	0.86	1.00	0.42	1.30	2.00	0.89	1.62	0.000		0.00	0.00	0.00
48.40	48.37	0.21	0.07	5.0	8.4	2.5	0.93	97.8	69.4	61.7	55.4	0.79	54.9	48.8	55.4	48.8	0.73	1.45	0.86	1.00	0.42	1.30	2.00	0.89	1.61	0.000		0.00	0.00	0.00
48.60	48.49	0.21	0.07	5.8	8.5	2.6	0.92	96.8	67.3	60.3	53.7	0.79	53.1	47.7	53.7	47.7	0.73	1.45	0.86	1.00	0.42	1.30	2.00	0.89	1.60	0.000		0.00	0.00	0.00
48.70	48.62	0.33	0.11	8.1	8.9	2.7	0.88	93.7	61.5	56.5	48.8	0.79	48.6	44.6	48.8	44.6	0.73	1.45	0.86	1.00	0.42	1.30	2.00	0.89	1.56	0.000		0.00	0.00	0.00
48.80	48.76	0.35	0.12	11.2	9.3	2.9	0.83	89.3	54.3	52.2	41.9	0.79	43.5	41.9	42.3	44.9	0.73	1.45	0.86	1.00	0.42	1.30	2.00	0.89	1.51	0.000		0.00	0.00	0.00
49.00	48.90	0.47	0.16	12.7	9.6	2.9	0.81	89.0	64.1	50.3	38.9	0.79	51.9	40.9	39.7	44.9	0.73	1.45	0.86	1.00	0.42	1.30	2.00	0.90	1.49	0.000		0.00	0.00	0.00
49.10	49.02	0.48	0.16	13.7	9.7	3.0	0.79	87.8	61.6	48.6	36.9	0.79	49.9	39.5	37.7	43.5	0.73	1.45	0.87	1.00	0.42	1.30	2.00	0.90	1.48	0.000		0.00	0.00	0.00
49.20	49.15	0.50	0.17	14.0	9.8	3.0	0.79	86.6	61.0	47.8	36.3	0.78	49.2	38.6	37.0	42.3	0.73	1.45	0.88	1.00	0.41	1.30	2.00	0.90	1.48	0.000		0.00	0.00	0.00
49.40	49.28	0.33	0.11	8.4	8.9	2.7	0.87	93.3	60.9	56.2	48.1	0.78	47.9	44.2	48.1	44.6	0.73	1.45	0.85	1.00	0.42	1.30	2.00	0.90	1.58	0.000		0.00	0.00	0.00
49.50	49.42	0.35	0.12	11.5	9.4	2.9	0.82	88.9	54.1	50.5	41.6	0.78	42.6	39.7	41.6	40.8	0.72	1.45	0.86	1.00	0.42	1.30	2.00	0.90	1.53	0.000		0.00	0.00	0.00
49.60	49.55	0.36	0.12	13.0	9.6	2.9	0.80	86.6	51.0	47.2	38.4	0.78	40.0	37.0	38.4	37.5	0.72	1.45	0.87	1.00	0.41	1.30	2.00	0.91	1.51	0.000		0.00	0.00	0.00
49.70	49.68	0.38	0.13	15.3	10.0	3.1	0.77	83.0	46.5	43.2	33.9	0.78	36.5	33.9	33.9	34.5	0.72	1.45	0.89	1.00	0.40	1.30	2.00	0.91	1.47	0.000		0.00	0.00	0.00
49.90	49.81	0.37	0.12	14.0	9.8	3.0	0.79	85.1	49.2	44.9	36.5	0.78	38.3	35.0	36.5	35.0	0.72	1.45	0.88	1.00	0.41	1.30	2.00	0.91	1.50	0.000		0.00	0.00	0.00
50.00	49.92	0.36	0.12	12.9	9.6	2.9	0.80	86.7	51.3	47.1	38.5	0.78	40.0	36.8	38.5	36.8	0.72	1.45	0.87	1.00	0.41	1.30	2.00	0.91	1.52	0.000		0.00	0.00	0.00

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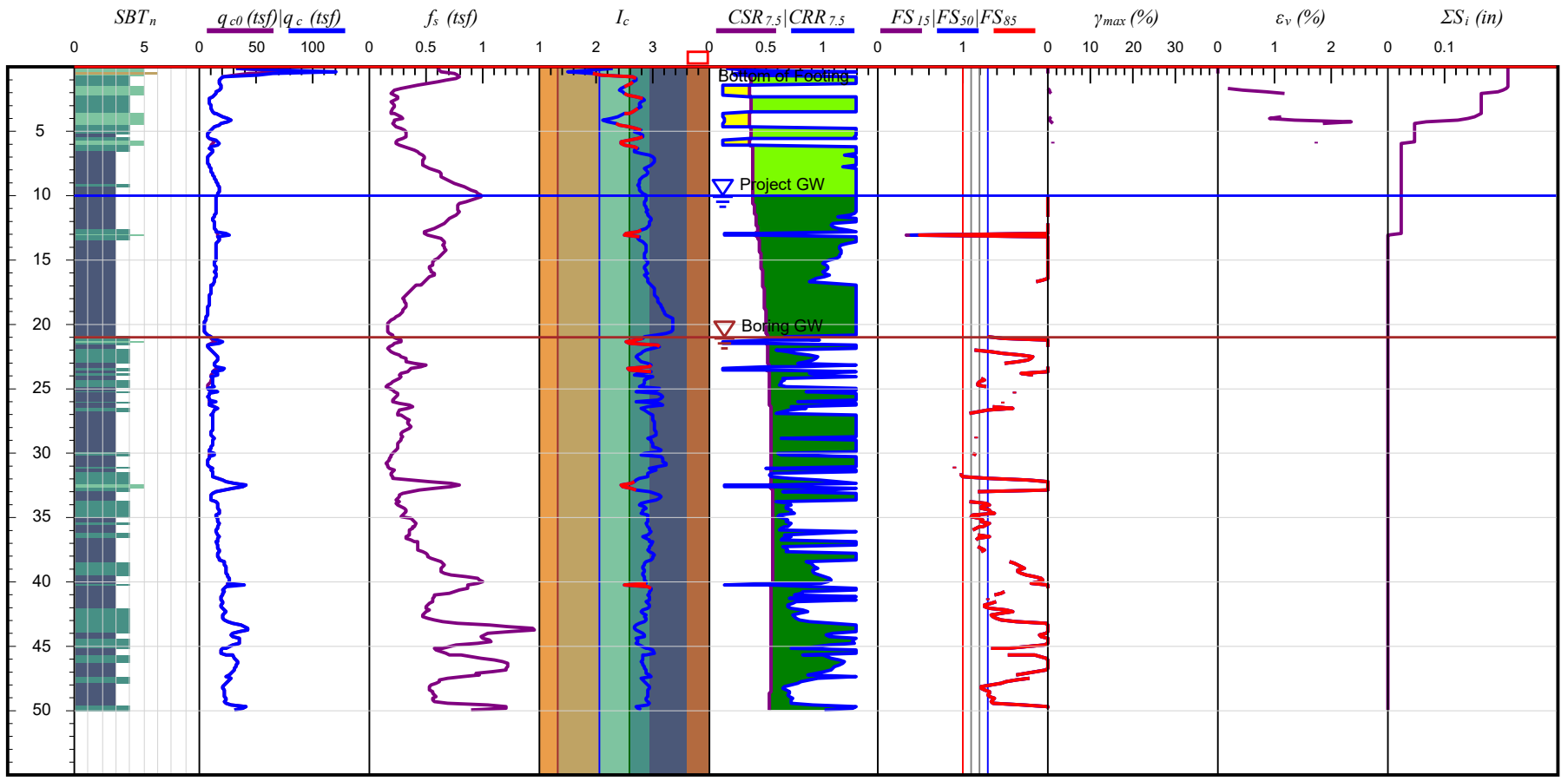

Sensitive fine grained
Organic soils - peats
Clay to silty clay
Silty clay to clayey silt
Sandy silt to silty sand
Silty sand to clean sand
Dense sand to gravelly sand
Clayey sand to very stiff sand
Very stiff fine grained *

* Overconsolidated or cemented

Silt Correction:
$K=(1-FC)^{0.75}$

Earthquake & Groundwater Information:
Magnitude = 6.51
Max. Acceleration = 0.648 g
Project GW = 10 ft
Maximum Settlement = 0.21 in
Settl. at Bottom of Footing = 0.21 in

Liquefaction: Boulanger & Idriss (2010-16)
Settl.: [dry] Pradel (1998); [sat] Idriss & Boulanger (2008)
Lateral spreading: Idriss & Boulanger (2008)
M correction: [Sand; Clay] Boulanger & Idriss(2004)
σv correction: Idriss & Boulanger (2008)
Stress reduction: Idriss & Boulanger (2008)

GORIAN & ASSOCIATES, INC

Seismic Settlement Potential - CPT Data

Project:	Canoga Park High School Modernization				
Location:	6850 Topanga Canyon Blvd.				
Project No.:	2880-83-3-100	CPT No.:	CPT-21	Figure:	5

X:\2880-0-0-LA Unified Sch Dist-Master File\2880-83 Canoga Park High Sch\2880-83-3 Comprensive Modernization\Seismic Settlement\GeoSuite_2880-83-3-100_CPT-21.csv

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Prepared at 1/14/2022 4:47:20 PM

Z_b (ft)	Z_m (ft)	q_c (tsf)	f_s (tsf)	u_2 (tsf)	q_t (tsf)	R_f	SBT	γ (pcf)	σ_{v0} (tsf)	σ_{v0}' (tsf)	Q_t	Q_{tn}	F_R	SBT_n	I_c	q_{c1N}	K_c	$Q_{tn,cs}$	$(SBT)_{Ic}$	B_q	$(SBT)_{Bq}$	F_C (%)	c	R	V_s (ft/s)	G_0 (tsf)	E' (tsf)	M (tsf)	σ_p' (tsf)	OCR	S_t	S_u (tsf)	S_u/σ_{v0}'	φ (°)	c' (tsf)
0.40	0.18	32.5	0.60	0.01	32.5	304.76	2	157	0.01	0.01	122.9	52.2	1.86	5	2.30	52.2	1.93	110.7	5	0.00	1	22.50	0.43	273.6	539.5	709	429	455	0.04	2.8				36.5	0.00
0.50	0.41	120.8	0.63	0.01	120.8	0.69	9	124	0.03	0.03	456.5	194.0	0.52	6	1.51	194.0	1.00	194.0	6	0.00	1	2.94	0.38	273.4	629.8	765	585	1,170	0.26	8.1				42.8	0.01
0.60	0.54	64.7	0.75	0.01	64.7	1.70	7	125	0.04	0.04	244.5	103.9	1.17	6	1.94	104.0	1.22	137.0	6	0.00	1	11.40	0.42	273.6	606.4	712	542	1,085	0.21	5.1				39.8	0.00
0.70	0.67	51.2	0.78	0.00	51.2	2.52	6	125	0.05	0.05	193.4	82.2	1.52	5	2.09	82.3	1.43	134.9	5	0.00	1	15.63	0.44	273.6	594.3	688	521	1,042	0.20	4.2				38.7	0.00
0.90	0.79	21.1	0.79	0.00	21.1	3.77	4	119	0.06	0.06	79.6	33.8	3.77	4	2.64	33.9	0.00	33.9	4	0.00	1	37.54	0.49	273.8	540.1	541		295	7.02	11.3	1.9	1.50	2.42	34.4	1.50
1.00	0.93	18.4	0.76	0.00	18.4	4.14	4	119	0.06	0.06	69.3	29.4	4.16	4	2.72	29.5	0.00	29.5	4	0.00	1	41.33	0.51	273.8	527.6	513		257	6.11	9.8	1.7	1.31	2.10	33.8	1.31
1.10	1.08	17.8	0.67	-0.02	17.8	3.78	4	118	0.07	0.07	66.9	28.5	3.79	4	2.70	28.6	0.00	28.6	4	0.00	1	40.46	0.51	273.8	513.3	482		248	5.90	9.5	1.9	1.26	2.03	33.6	1.26
1.20	1.20	18.3	0.61	-0.05	18.3	3.30	5	117	0.08	0.08	69.0	29.3	3.32	4	2.65	29.5	0.00	29.5	4	0.00	1	37.96	0.51	273.8	505.5	464		256	6.08	9.8	2.1	1.30	2.09	33.7	1.30
1.40	1.32	18.3	0.51	-0.02	18.3	2.80	5	116	0.09	0.09	69.0	29.3	2.81	4	2.61	29.5	0.00	29.5	4	0.00	1	35.63	0.51	273.8	490.7	433		255	6.08	9.8	2.5	1.30	2.09	33.7	1.30
1.50	1.45	18.5	0.42	-0.01	18.5	2.28	5	114	0.09	0.09	69.5	29.5	2.29	4	2.55	29.7	3.00	88.3	5	0.00	1	32.82	0.52	273.8	474.7	400	332	257	0.14	1.5				33.8	0.00
1.70	1.59	18.7	0.35	-0.02	18.7	1.89	6	113	0.10	0.10	70.4	29.9	1.90	5	2.49	30.1	2.71	87.8	5	0.00	1	30.33	0.52	273.8	461.4	374	314	261	0.16	1.5				33.8	0.00
1.80	1.72	18.5	0.28	-0.01	18.5	1.49	6	111	0.11	0.11	69.6	29.6	1.50	5	2.44	29.8	2.45	86.3	5	0.00	1	27.91	0.52	273.8	443.0	339	289	258	0.17	1.5				33.8	0.00
1.90	1.86	17.4	0.22	-0.01	17.4	1.26	6	109	0.12	0.12	65.2	27.7	1.27	5	2.42	27.9	2.37	83.5	5	0.00	1	27.15	0.53	273.9	423.8	305	265	242	0.16	1.4				33.5	0.00
2.00	1.99	15.1	0.20	-0.01	15.1	1.32	6	108	0.12	0.12	56.8	24.1	1.33	5	2.48	24.3	2.65	80.2	5	0.00	1	29.80	0.54	273.9	411.2	284	249	210	0.15	1.2				32.8	0.00
2.20	2.10	14.3	0.20	-0.01	14.3	1.38	6	108	0.13	0.13	53.6	22.8	1.39	5	2.51	23.0	2.81	79.1	5	0.00	1	31.16	0.54	273.9	407.4	278	245	199	0.14	1.1				32.5	0.00
2.30	2.24	13.4	0.21	-0.01	13.4	1.60	5	108	0.14	0.14	50.3	21.4	1.61	4	2.57	21.6	3.12	78.2	5	0.00	1	33.85	0.55	273.9	409.4	282	247	186	0.14	1.0				32.2	0.00
2.40	2.37	11.2	0.25	-0.01	11.2	2.21	5	109	0.14	0.14	41.8	17.8	2.23	4	2.71	18.0	0.00	18.0	4	0.00	1	41.16	0.56	274.0	409.1	283		155	3.69	5.9	3.2	0.79	1.27	31.3	0.79
2.60	2.50	9.3	0.25	-0.01	9.3	2.73	4	109	0.15	0.15	34.5	14.6	2.77	4	2.84	14.9	0.00	14.9	4	0.00	1	48.10	0.58	274.0	401.4	272		128	3.04	4.9	2.6	0.65	1.05	30.4	0.65
2.70	2.64	8.7	0.22	-0.03	8.7	2.51	4	107	0.16	0.16	32.2	13.7	2.56	4	2.84	14.0	0.00	14.0	4	0.00	1	48.28	0.58	274.0	388.9	252		117	2.84	4.6	2.8	0.61	0.98	30.1	0.61
2.80	2.77	8.8	0.19	-0.10	8.8	2.17	5	106	0.17	0.17	32.7	13.9	2.22	4	2.80	14.2	0.00	14.2	4	0.01	1	45.87	0.58	274.0	381.7	241		120	2.88	4.6	3.2	0.62	0.99	30.2	0.62
3.00	2.89	9.3	0.20	-0.06	9.3	2.17	5	107	0.17	0.17	34.5	14.7	2.22	4	2.78	15.0	0.00	15.0	4	0.01	1	44.77	0.58	274.0	387.4	250		128	3.04	4.9	3.2	0.65	1.05	30.4	0.65
3.10	3.02	9.9	0.23	-0.02	9.8	2.30	5	108	0.18	0.18	36.5	15.5	2.34	4	2.77	15.8	0.00	15.8	4	0.00	1	44.40	0.58	274.0	396.9	264		135	3.22	5.2	3.0	0.69	1.11	30.7	0.69
3.20	3.16	9.6	0.22	-0.02	9.6	2.31	5	108	0.19	0.19	35.6	15.1	2.35	4	2.78	15.4	0.00	15.4	4	0.00	1	44.96	0.58	274.0	394.3	260		132	3.14	5.0	3.0	0.67	1.08	30.6	0.67
3.40	3.29	9.9	0.20	-0.02	9.9	2.05	5	107	0.19	0.19	36.7	15.6	2.09	4	2.74	15.9	0.00	15.9	4	0.00	1	42.74	0.58	274.0	390.2	254		136	3.23	5.2	3.4	0.69	1.11	30.7	0.69
3.50	3.43	11.4	0.19	-0.03	11.4	1.66	5	107	0.20	0.20	42.3	18.0	1.69	4	2.64	18.3	0.00	18.3	4	0.00	1	37.31	0.57	274.0	392.8	257		157	3.73	6.0	4.2	0.80	1.29	31.4	0.80
3.60	3.56	12.7	0.19	-0.02	12.7	1.49	5	107	0.21	0.21	47.3	20.1	1.52	4	2.57	20.4	3.16	76.8	5	0.00	1	34.11	0.57	274.0	398.2	264	234	175	0.21	0.9				31.9	0.00
3.80	3.68	15.4	0.22	-0.01	15.4	1.40	6	109	0.22	0.22	57.5	24.4	1.42	5	2.49	24.8	2.69	81.0	5	0.00	1	30.16	0.56	273.9	416.0	293	255	213	0.26	1.2				32.9	0.01
3.90	3.82	20.2	0.27	-0.01	20.2	1.36	6	111	0.22	0.22	75.7	32.2	1.37	5	2.38	32.5	2.23	88.4	5	0.00	1	25.70	0.54	273.9	446.3	344	294	280	0.38	1.7				34.2	0.01
4.00	3.95	24.9	0.29	-0.01	24.8	1.18	6	112	0.23	0.23	93.1	39.6	1.18	5	2.27	39.9	1.85	94.2	5	0.00	1	21.50	0.53	273.9	461.5	372	314	345	0.49	2.1				35.2	0.01
4.10	4.08	28.3	0.22	-0.01	28.3	0.78	7	111	0.24	0.24	106.0	45.1	0.79	5	2.13	45.5	1.50	93.3	5	0.00	1	16.72	0.52	273.8	450.2	348	299	598	0.58	2.4				35.8	0.01
4.30	4.21	24.8	0.21	-0.01	24.7	0.87	7	110	0.24	0.24	92.6	39.4	0.87	5	2.20	39.8	1.66	90.7	5	0.00	1	19.06	0.53	273.9	440.5	331	286	343	0.52	2.1				35.1	0.01
4.40	4.34	19.0	0.21	-0.01	19.0	1.13	6	109	0.25	0.25	70.8	30.1	1.12	5	2.36	30.5	2.13	85.2	5	0.00	1	24.71	0.55	273.9	424.8	306	266	262	0.39	1.6				33.9	0.01
4.50	4.47	17.1	0.21	-0.01	17.1	1.25	6	109	0.26	0.26	63.6	27.0	1.27	5	2.43	27.4	2.40	83.0	5	0.00	1	27.45	0.56	273.9	420.4	299	261	236	0.36	1.4				33.4	0.01
4.70	4.61	13.5	0.23	-0.01	13.5	1.72	5	109	0.27	0.27	49.8	21.3	1.75	4	2.59	21.8	3.23	78.7	5	0.00	1	34.68	0.57	274.0	413.4	290	252	186	0.27	1.0				32.2	0.01
4.80	4.73	12.0	0.28	-0.01	12.0	2.29	5	110	0.27	0.27	43.1	18.9	2.34	4	2.70	19.3	0.00	19.3	4	0.00	1	40.51	0.58	274.0	418.6	299		165	3.92	6.3	3.0	0.84	1.35	31.6	0.84
4.90	4.86	10.6	0.31	-0.01	10.6	2.90	4	111	0.28	0.28	37.0	16.6	2.97	4	2.81	17.1	0.00	17.1	4	0.00	1	46.35	0.59	274.0	419.6	302		145	3.45	5.5	2.4	0.74	1.19	31.0	0.74
5.10	4.99	9.1	0.32	-0.01	9.1	3.51	3	110	0.29	0.29	30.8	14.2	3.61	4	2.66	14.7	0.00	14.7	4	0.00	1	38.48	0.60	274.1	354.0	215		124	2.95	4.7	2.0	0.63	1.01	30.3	0.63
5.20	5.12	7.8	0.32	-0.01	7.8	4.13	3	110	0.29	0.29	25.4	12.0	4.29	4	2.77	12.5	0.00	12.5	4	0.00	1	44.53	0.61	274.1	349.4	209		90	2.49	4.0	1.7	0.53	0.86	29.5	0.53
5.30	5.26	7.3	0.33	-0.01	7.3	4.48	3	110	0.30	0.30	23.2	11.3	4.67	3	2.83	11.8	0.00	11.8	4	0.00	1	47.62	0.62	274.1	350.4	210		79	2.34	3.8	1.5	0.50	0.81	29.2	0.50
5.50	5.40	7.3	0.32	-0.04	7.3	4.46	3	110	0.31	0.31	22.5	11.2	4.66	3	2.84	11.7	0.00	11.7	4	0.01	1	48.21	0.62	274.1	351.2	211		78	2.32	3.7	1.5	0.50	0.80	29.1	0.50
5.60	5.53	8.4	0.30	-0.05	8.3	3.58	3	110	0.32	0.32	25.3	12.9	3.71	4	2.73	13.4	0.00	13.4	4	0.01	1	42.24	0.61	274.1	352.8	212		103	2.68	4.3	1.9	0.57	0.92	29.8	0.57
5.70	5.65	14.0	0.25	-0.06	14.0	2.12	5	111	0.32	0.32	42.4	22.0	1.80	4	2.58	22.6	3.19	79.6	5	0.00	1	34.43	0.58	274.0	418.7	302	258	192	0.34	1.1				32.4	0.01
5.90	5.80	16.9	0.23	-0.05	16.9	1.81	6	112	0.33	0.33	49.9	26.6	1.40	5	2.45	27.2	2.52	83.3	5	0.00	1	28.60	0.57	274.0	424.3	312	265	232	0.45	1.4				33.3	0.01
6.00	5.92	17.4	0.23	-0.03	17.4	1.98	6	113	0.34	0.34	50.3	27.4	1.37	5	2.44	27.9	2.46	83.9	5	0.00	1	27.97	0.57	274.0	426.2	318	268	238	0.47	1.4				33.4	0.01
6.10	6.04	16.4	0.26	-0.02	16.4	2.53	5	114	0.35	0.35	46.5	25.8	1.63	5	2.50	26.4	2.75	83.2	5	0.00	1	30.66	0.57	274.0	430.4	328	273	225	0.45	1.3				33.1	0.01
6.20	6.18	9.8	0.31	-0.02	9.8	3.17	4	110	0.35	0.35	26.6	15.1	3.29	4	2.68	15.7	0.00	15.7	4	0.00	1	39.57	0.61	274.1	370.0	235		132	3.13	5.0	2.2	0.67	1.08	30.6	0.67
6.40	6.30	9.5	0.35	-0.02	9.5	3.67	3	111	0.36	0.36	25.4	14.7	3.82	4	2.74	15.3	0.00	15.3	4	0.00	1	42.63	0.61	274.1	378.4	247		128	3.05	4.9	1.9	0.65	1.05	30.4	0.65
6.50	6.44	11.5	0.39	-0.01	11.5	3.43	4	113	0.37	0.37	30.3	17.9	3.54	4	2.66	18.5	0.00	18.5	4	0.00	1	38.46	0.60	274.0	397.2	276		156	3.71	6.0	2.0	0.80	1.28	31.4	0.80
6.60	6.58	11.6	0.42	0.01	11.6	3.65	4	113	0.38	0.38	29.8	18.0	3.77	4	2.69	18.6	0.00	18.6	4	0.00	1	39.68	0.60	274.1	403.9	287		156	3.73	6.0	1.9	0.80	1.28	31.4	0.80
6.80	6.70	10.0	0.44	0.00	9.9	4.48	3	113	0.38	0.38	25.0	15.4	4.65	3	2.80	16.0	0.00	16.0	4	0.00	1	46.14	0.61	274.1	402.5	285		134	3.19	5.1	1.5	0.68	1.10	30.7	0.68
6.90	6.83	8.5	0.48	-0.01	8.5	5.62	3	113	0.39	0.39	20.8	13.0	5.89	3	2.93	13.6	0.00	13.6	4	0.00	1	53.96	0.62	274.1	401.9	284		106	2.70	4.3	1.2	0.58	0.93	29.9	0.58
7.00	6.98	7.9	0.49	0.00	7.9	6.21	3	113	0.40	0.40	18.7	12.0	6.54	3	3.00	12.6	0.00	12.6	3	0.00	1	58.16	0.63	274.1	401.6	284		89	2.49	4.0	1.1	0.53	0.86	29.5	0.53
7.20	7.11	7.6	0.48	0.00	7.6	6.36	3	113	0.41	0.41	17.7	11.5	6.72	3	3.02	12.2	0.00	12.2	3	0.00	1	59.99	0.63	274.1	400.3	282		82	2.39	3.8	1.1	0.51	0.82	29.3	0.51
7.30	7.24	7.5	0.47	0.00	7.5	6.33	3	113	0.41	0.41	17.1	11.3	6.70	3	3.03	12.0	0.00	12.0	3	0.00	1	60.65	0.63	274.1	399.8	280		80	2.35	3.8	1.1	0.50	0.81	29.2	0.50
7.40	7.38	7.6	0.47	0.00	7.6	6.18	3	113	0.42	0.42	17.0	11.5	6.55	3	3.03	12.2	0.00	12.2	3	0.00	1	60.32	0.63	274.1	401.1	282		82	2.38	3.8	1.1	0.51	0.82	29.3	0.51
7.50	7.50	8.0	0.47	0.00	8.0	5.82	3	113	0.43	0.43	17.7	12.2	6.14	3	2.99	12.9	0.00	12.9	3	0.00	1	58.12	0.63	274.1	404.7	287		92	2.53	4.1	1.2	0.54	0.87	29.5	0.54
7.70	7.62	8.4	0.48	0.01	8.4	5.66	3	113	0.43	0.43	18.4	12.9	5.96	3	2.97	13.6	0.00	13.6	3	0.00	1	56.69	0.62	274.1	410.4	296		103	2.67	4.3	1.2	0.57	0.92	29.8	0.57
7.80	7.76	9.5	0.51	0.02	9.5	5.31	3	114	0.44	0.44	20.5	14.6	5.57	3	2.92	15.3	0.00	15.3	4	0.00	1	53.20	0.62	274.1	422.0	315		127	3.02	4.9	1.3	0.65	1.04	30.4	0.65
7.90	7.88	10.7	0.52	0.02	10.7	4.89	3	115	0.45	0.45	22.9	16.5	5.10	3	2.86	17.2	0.00	17.2	4	0.00	1	49.43	0.61	274.1	432.2	333		144	3.43	5.5	1.4	0.73	1.18	31.0	0.73
8.10	8.02	11.0	0.58	0.02	11.0	5.23	3	115	0.46	0.46	23.1	17.0	5.45	3	2.88	17.7	0.00	17.7	4	0.00	1	50.45	0.61	274.1	442.8	351		148	3.52	5.7	1.3	0.75	1.21	31.1	0.75
8.20	8.16	11.0	0.62	0.02	11.0	5.68	3	116	0.47	0.47	22.6	16.9	5.93	3	2.91	17.6	0.00	17.6	4	0.00	1	52.43	0.61	274.1	450.7	366		147	3.50	5.6	1.2	0.75	1.21	31.1	0.75
8.40	8.30	11.2	0.63	0.03	11.2	5.67	3	116	0.47	0.47	22.7	17.3	5.91	3	2.90	18.0	0.00	18.0	4	0.00	1	52.28	0.61	274.1	455.0	374		150	3.58	5.8	1.2	0.77	1.23	31.2	0.77
8.50	8.42	11.8	0.64	0.03	11.8	5.38	3	116	0.48	0.48	23.7	18.3	5.61	3	2.88	19.0	0.00	19.0	4	0.00	1	50.48	0.61	274.1	459.5	382		159	3.79	6.1	1.3	0.81	1.30	31.5	0.81
8.60	8.54	12.7	0.64	0.04	12.7	5.02	3	116	0.49	0.49	25.1	19.7	5.21	3	2.84	20.4	0.00	20.4	4	0.00	1	48.06	0.60	274.1	464.8	391		171	4.08	6.6	1.4	0.87	1.40	31.8	0.87
8.80	8.68	13.9	0.66	0.05	13.9	4.73	3	117	0.50	0.50	27.1	21.6	4.90	3	2.79	22.4	0.00	22.4	4	0.00	1	45.56	0.60	274.0	474.0	408		188	4.48	7.2	1.4	0.96	1.54	32.3	0.96
8.90	8.81	14.9	0.69	0.05	14.9	4.65	3	117	0.50	0.50	28.6	23.1	4.81	3	2.77	23.9	0.00	23.9	4	0.00	1	44.26	0.59	274.0	483.7	427		202	4.80	7.7	1.5	1.03	1.65	32.6	1.03
9.00	8.93	15.4	0.73	0.06	15.4	4.71	3	118	0.51	0.51	29.3	24.0	4.87	3	2.77	24.8	0.00	24.8	4	0.00	1	44.10	0.59	274.0	491.6	443		209	4.98	8.0	1.5	1.07	1.71	32.8	1.07
9.10	9.06	16.1	0.76	0.06	16.1	4.70	3	118	0.52	0.52	30.0	25.0	4.86	3	2.76	25.8	0.00	25.8	4	0.00	1	43.58	0.59	274.0	498.9	458		218	5.19	8.3	1.5	1.11	1.79	33.0	1.11
9.30	9.19	16.8	0.80	0.06	16.8	4.73	3	119	0.53	0.53	31.0	26.2	4.88	4	2.75	26.8	0.00	26.8	4	0.00	1	43.07	0.58	274.0	508.0	477		228	5.44	8.7	1.5	1.17	1.87	33.2	1.17

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Z_b (ft)	Z_m (ft)	q_c (tsf)	f_s (tsf)	u_2 (tsf)	q_t (tsf)	R_f	SBT	γ (pcf)	σ_{v0} (tsf)	σ_{v0}' (tsf)	Q_t	Q_{tn}	F_R	SBT_n	I_c	q_{c1N}	K_c	$Q_{tn,cs}$	$(SBT)_{Ic}$	B_q	$(SBT)_{Bq}$	F_C (%)	c	R	V_s (ft/s)	G_0 (tsf)	E' (tsf)	M (tsf)	σ_p' (tsf)	OCR	S_t	S_u (tsf)	S_u/σ_{v0}'	φ (°)	c' (tsf)
9.40	9.33	17.3	0.84	0.07	17.3	4.84	3	119	0.53	0.53	31.5	27.0	4.99	3	2.75	27.2	0.00	27.2	4	0.00	1	43.22	0.58	274.0	516.3	494		235	5.60	9.0	1.4	1.20	1.93	33.3	1.20
9.50	9.46	17.6	0.87	0.07	17.6	4.93	3	120	0.54	0.54	31.5	27.4	5.08	3	2.76	27.4	0.00	27.4	4	0.00	1	43.49	0.58	274.0	522.2	507		239	5.70	9.1	1.4	1.22	1.96	33.4	1.22
9.60	9.59	17.7	0.90	0.07	17.7	5.07	3	120	0.55	0.55	31.3	27.6	5.23	3	2.77	27.2	0.00	27.2	4	0.00	1	44.14	0.58	274.0	527.5	518		240	5.72	9.2	1.4	1.23	1.97	33.4	1.23
9.80	9.72	17.3	0.94	0.07	17.3	5.41	3	120	0.56	0.56	30.1	27.0	5.59	3	2.80	26.4	0.00	26.4	4	0.00	1	45.94	0.59	274.0	532.0	528		235	5.59	9.0	1.3	1.20	1.93	33.3	1.20
9.90	9.87	16.6	0.96	0.07	16.7	5.75	3	120	0.57	0.57	28.4	25.9	5.94	3	2.84	25.2	0.00	25.2	4	0.00	1	48.09	0.59	274.0	533.2	531		225	5.36	8.6	1.2	1.15	1.85	33.1	1.15
10.00	9.97	15.9	0.98	0.06	15.9	6.18	3	120	0.57	0.57	26.7	24.6	6.40	3	2.88	23.9	0.00	23.9	4	0.00	1	50.61	0.59	274.0	533.8	532		214	5.10	8.2	1.1	1.09	1.76	32.9	1.09
10.10	10.06	15.4	0.98	0.06	15.4	6.34	3	120	0.58	0.58	25.8	23.9	6.59	3	2.90	23.2	0.00	23.2	4	0.00	1	51.81	0.59	274.0	532.6	530		208	4.95	8.0	1.1	1.06	1.71	32.8	1.06
10.30	10.18	15.3	0.95	0.07	15.3	6.18	3	120	0.58	0.58	25.5	23.6	6.42	3	2.89	23.0	0.00	23.0	4	0.00	1	51.57	0.60	274.0	529.5	522		207	4.92	7.9	1.1	1.05	1.69	32.7	1.05
10.40	10.32	15.3	0.89	0.07	15.3	5.81	3	119	0.59	0.58	25.3	23.4	6.03	3	2.88	22.9	0.00	22.9	4	0.00	1	50.56	0.60	274.0	523.8	509		206	4.92	7.8	1.2	1.05	1.67	32.7	1.05
10.50	10.46	15.4	0.85	0.08	15.4	5.51	3	119	0.60	0.59	25.2	23.3	5.73	3	2.86	22.9	0.00	22.9	4	0.00	1	49.67	0.60	274.0	519.8	500		207	4.93	7.8	1.2	1.06	1.66	32.6	1.06
10.70	10.60	15.4	0.80	0.08	15.4	5.19	3	119	0.61	0.59	25.0	23.1	5.40	3	2.85	22.8	0.00	22.8	4	0.00	1	48.75	0.60	274.0	514.7	488		207	4.93	7.7	1.3	1.06	1.65	32.6	1.06
10.80	10.72	15.1	0.78	0.08	15.2	5.17	3	118	0.62	0.59	24.4	22.6	5.38	3	2.85	22.3	0.00	22.3	4	0.00	1	49.12	0.60	274.1	512.3	483		204	4.85	7.5	1.3	1.04	1.61	32.5	1.04
10.90	10.83	14.7	0.78	0.08	14.7	5.31	3	118	0.62	0.60	23.6	21.9	5.54	3	2.87	21.7	0.00	21.7	4	0.00	1	50.33	0.60	274.1	510.9	480		197	4.70	7.3	1.3	1.01	1.56	32.3	1.01
11.00	10.96	14.4	0.78	0.08	14.4	5.40	3	118	0.63	0.60	22.9	21.3	5.64	3	2.89	21.1	0.00	21.1	4	0.00	1	51.26	0.60	274.1	509.4	477		192	4.58	7.1	1.3	0.98	1.52	32.2	0.98
11.20	11.10	14.3	0.78	0.08	14.3	5.49	3	118	0.64	0.61	22.5	21.0	5.74	3	2.90	20.9	0.00	20.9	4	0.00	1	51.86	0.60	274.1	510.6	479		191	4.55	7.0	1.2	0.97	1.50	32.2	0.97
11.30	11.24	14.4	0.79	0.08	14.4	5.47	3	118	0.65	0.61	22.6	21.1	5.72	3	2.90	21.0	0.00	21.0	4	0.00	1	51.74	0.60	274.1	512.4	483		193	4.59	7.0	1.2	0.98	1.51	32.2	0.98
11.40	11.36	14.3	0.79	0.08	14.3	5.50	3	118	0.65	0.61	22.3	20.9	5.75	3	2.90	20.7	0.00	20.7	4	0.00	1	52.13	0.60	274.1	512.2	482		191	4.55	7.0	1.2	0.98	1.49	32.1	0.98
11.60	11.49	13.9	0.76	0.08	13.9	5.47	3	118	0.66	0.62	21.5	20.2	5.74	3	2.91	20.1	0.00	20.1	4	0.00	1	52.77	0.61	274.1	508.3	474		186	4.43	6.7	1.2	0.95	1.44	32.0	0.95
11.70	11.62	13.0	0.73	0.08	13.0	5.63	3	118	0.67	0.62	19.9	18.8	5.93	3	2.95	18.7	0.00	18.7	4	0.00	1	54.99	0.61	274.1	501.1	459		173	4.12	6.3	1.2	0.88	1.34	31.6	0.88
11.80	11.75	12.4	0.71	0.08	12.4	5.71	3	117	0.68	0.62	18.9	17.9	6.03	3	2.97	17.8	0.00	17.8	3	0.00	1	56.46	0.61	274.1	496.0	448		165	3.92	6.0	1.2	0.84	1.28	31.4	0.84
12.00	11.89	12.4	0.69	0.08	12.4	5.58	3	117	0.69	0.63	18.7	17.8	5.90	3	2.97	17.7	0.00	17.7	3	0.00	1	56.16	0.61	274.1	494.4	445		164	3.92	5.9	1.2	0.84	1.27	31.3	0.84
12.10	12.02	12.6	0.68	0.08	12.6	5.41	3	117	0.69	0.63	18.8	17.8	5.72	3	2.95	17.8	0.00	17.8	3	0.00	1	55.44	0.61	274.1	493.9	443		166	3.96	5.9	1.2	0.85	1.27	31.4	0.85
12.20	12.15	12.8	0.66	0.08	12.8	5.21	3	117	0.70	0.63	19.0	18.0	5.51	3	2.94	18.0	0.00	18.0	4	0.00	1	54.52	0.61	274.1	493.3	442		169	4.02	6.0	1.3	0.86	1.29	31.4	0.86
12.40	12.29	12.7	0.64	0.09	12.7	5.01	3	116	0.71	0.64	18.8	17.8	5.30	3	2.93	17.8	0.00	17.8	4	0.00	1	54.04	0.61	274.1	489.8	434		168	4.01	5.9	1.3	0.86	1.27	31.4	0.86
12.50	12.43	12.9	0.61	0.09	12.9	4.74	3	116	0.72	0.64	18.9	17.9	5.01	3	2.91	18.0	0.00	18.0	4	0.00	1	52.89	0.61	274.1	487.0	428		170	4.05	6.0	1.4	0.87	1.28	31.4	0.87
12.60	12.56	13.5	0.58	0.10	13.5	4.30	3	116	0.73	0.65	19.8	18.6	4.53	3	2.87	18.8	0.00	18.8	4	0.00	1	50.20	0.61	274.1	486.0	425		179	4.26	6.2	1.6	0.91	1.33	31.6	0.91
12.70	12.67	14.5	0.53	0.12	14.5	3.68	4	115	0.73	0.65	21.3	19.8	3.87	4	2.80	20.1	0.00	20.1	4	0.00	1	46.14	0.60	274.1	483.4	419		193	4.60	6.6	1.8	0.99	1.41	31.9	0.99
12.90	12.80	15.4	0.49	0.12	15.5	3.19	4	115	0.74	0.65	22.6	20.8	3.34	4	2.74	21.3	0.00	21.3	4	0.00	1	42.74	0.60	274.1	480.5	413		206	4.91	6.9	2.1	1.05	1.49	32.1	1.05
13.00	12.93	23.7	0.49	0.14	23.7	2.97	5	119	0.75	0.66	35.1	31.4	2.14	4	2.54	31.6	2.98	90.7	5	0.00	1	32.62	0.57	274.0	529.1	517	413	322	0.66	1.0				34.1	0.01
13.10	13.07	26.2	0.51	0.15	26.2	3.09	5	120	0.75	0.66	38.6	34.4	2.01	5	2.49	34.5	2.72	93.5	5	0.00	1	30.36	0.56	274.0	539.3	543	429	356	0.75	1.1				34.5	0.01
13.30	13.21	16.5	0.58	0.15	16.5	3.52	4	116	0.76	0.66	23.7	21.9	3.68	4	2.75	22.3	0.00	22.3	4	0.00	1	43.35	0.60	274.1	500.0	452		220	5.24	7.3	1.9	1.12	1.57	32.4	1.12
13.40	13.33	17.3	0.63	0.19	17.3	3.65	4	117	0.77	0.67	24.8	23.0	3.81	4	2.75	23.3	0.00	23.3	4	0.00	1	43.03	0.59	274.0	511.1	476		232	5.51	7.7	1.9	1.18	1.64	32.6	1.18
13.50	13.46	17.5	0.65	0.19	17.5	3.73	4	117	0.78	0.67	25.0	23.1	3.89	4	2.75	23.4	0.00	23.4	4	0.00	1	43.26	0.59	274.0	515.3	485		234	5.57	7.7	1.8	1.19	1.65	32.6	1.19
13.70	13.61	16.1	0.66	0.19	16.1	4.11	3	117	0.79	0.67	22.7	21.2	4.31	3	2.81	21.6	0.00	21.6	4	0.00	1	46.70	0.60	274.1	512.2	478		214	5.10	7.1	1.6	1.09	1.52	32.2	1.09
13.80	13.73	15.3	0.66	0.19	15.3	4.29	3	117	0.79	0.68	21.4	20.2	4.52	3	2.84	20.5	0.00	20.5	4	0.00	1	48.60	0.60	274.1	509.3	472		203	4.84	6.7	1.6	1.04	1.44	31.9	1.04
13.90	13.85	14.6	0.65	0.19	14.6	4.48	3	117	0.80	0.68	20.3	19.1	4.73	3	2.88	19.4	0.00	19.4	4	-0.01	1	50.48	0.61	274.1	506.2	466		193	4.60	6.4	1.5	0.99	1.37	31.7	0.99
14.10	14.00	14.5	0.66	0.19	14.5	4.54	3	117	0.81	0.68	20.0	18.9	4.80	3	2.88	19.2	0.00	19.2	4	0.00	1	51.03	0.61	274.1	507.0	467		192	4.56	6.3	1.5	0.98	1.35	31.6	0.98
14.20	14.12	14.6	0.67	0.19	14.6	4.57	3	117	0.82	0.69	20.0	19.0	4.83	3	2.89	19.3	0.00	19.3	4	0.00	1	51.11	0.61	274.1	509.2	472		193	4.59	6.3	1.5	0.98	1.35	31.7	0.98
14.30	14.25	14.8	0.67	0.20	14.8	4.53	3	117	0.82	0.69	20.3	19.2	4.79	3	2.88	19.5	0.00	19.5	4	0.00	1	50.71	0.61	274.1	511.3	476		196	4.67	6.4	1.5	1.00	1.37	31.7	1.00
14.50	14.39	14.9	0.66	0.20	15.0	4.43	3	117	0.83	0.70	20.3	19.2	4.68	3	2.87	19.6	0.00	19.6	4	0.00	1	50.27	0.61	274.1	511.2	476		198	4.71	6.4	1.5	1.01	1.37	31.7	1.01
14.60	14.53	15.0	0.65	0.20	15.0	4.33	3	117	0.84	0.70	20.3	19.2	4.57	3	2.87	19.6	0.00	19.6	4	0.00	1	49.89	0.61	274.1	510.2	473		199	4.73	6.4	1.6	1.01	1.37	31.7	1.01
14.70	14.66	15.0	0.63	0.21	15.0	4.20	3	117	0.85	0.70	20.2	19.1	4.44	3	2.86	19.5	0.00	19.5	4	0.00	1	49.47	0.61	274.1	507.9	468		199	4.73	6.4	1.6	1.01	1.36	31.7	1.01
14.80	14.77	15.0	0.61	0.21	15.0	4.10	3	117	0.85	0.71	20.1	19.0	4.34	3	2.85	19.5	0.00	19.5	4	0.00	1	49.18	0.61	274.1	506.2	464		198	4.73	6.3	1.6	1.01	1.36	31.7	1.01
15.00	14.90	14.6	0.60	0.21	14.6	4.10	3	116	0.86	0.71	19.4	18.4	4.35	3	2.87	18.9	0.00	18.9	4	0.00	1	49.88	0.61	274.1	502.8	457		193	4.59	6.1	1.6	0.98	1.32	31.5	0.98
15.10	15.04	14.1	0.57	0.21	14.2	4.05	3	116	0.87	0.71	18.6	17.7	4.30	3	2.88	18.2	0.00	18.2	4	0.00	1	50.53	0.61	274.1	497.1	445		186	4.43	5.9	1.7	0.95	1.27	31.3	0.95
15.20	15.17	13.5	0.56	0.21	13.5	4.13	3	116	0.88	0.72	17.7	16.8	4.41	3	2.90	17.3	0.00	17.3	4	0.00	1	52.08	0.61	274.1	492.7	436		177	4.22	5.6	1.6	0.90	1.20	31.1	0.90
15.40	15.31	13.4	0.56	0.21	13.4	4.17	3	116	0.89	0.72	17.4	16.6	4.45	3	2.91	17.1	0.00	17.1	4	0.00	1	52.54	0.62	274.1	492.9	436		176	4.18	5.5	1.6	0.90	1.19	31.0	0.90
15.50	15.43	13.9	0.56	0.21	13.9	4.01	3	116	0.89	0.72	18.0	17.2	4.27	3	2.89	17.7	0.00	17.7	4	0.00	1	51.14	0.61	274.1	495.2	441		182	4.34	5.7	1.7	0.93	1.23	31.2	0.93
15.60	15.56	14.1	0.53	0.21	14.2	3.73	4	115	0.90	0.73	18.2	17.3	3.98	3	2.86	17.9	0.00	17.9	4	0.00	1	49.65	0.61	274.1	492.0	434		186	4.42	5.8	1.8	0.95	1.24	31.2	0.95
15.70	15.69	14.1	0.53	0.21	14.2	3.72	4	115	0.91	0.73	18.1	17.3	3.96	3	2.86	17.8	0.00	17.8	4	0.00	1	49.70	0.61	274.1	492.1	434		185	4.42	5.8	1.8	0.95	1.23	31.2	0.95
15.90	15.82	14.1	0.54	0.22	14.2	3.85	4	116	0.92	0.73	18.0	17.2	4.10	3	2.87	17.8	0.00	17.8	4	0.00	1	50.40	0.61	274.1	495.5	441		185	4.41	5.7	1.7	0.95	1.23	31.2	0.95
16.00	15.95	13.8	0.55	0.22	13.8	3.99	3	116	0.92	0.74	17.5	16.7	4.27	3	2.90	17.3	0.00	17.3	4	0.00	1	51.69	0.61	274.1	495.6	441		181	4.30	5.6	1.7	0.92	1.20	31.1	0.92
16.20	16.10	14.0	0.58	0.23	14.0	4.13	3	116	0.93	0.74	17.7	16.9	4.41	3	2.90	17.5	0.00	17.5	4	0.00	1	52.09	0.61	274.1	501.3	453		183	4.36	5.6	1.6	0.93	1.21	31.1	0.93
16.30	16.23	14.8	0.57	0.23	14.8	3.89	4	116	0.94	0.74	18.6	17.8	4.14	3	2.87	18.4	0.00	18.4	4	0.00	1	49.92	0.61	274.1	504.4	459		194	4.62	5.9	1.7	0.99	1.27	31.3	0.99
16.40	16.34	14.1	0.52	0.24	14.2	3.70	4	115	0.95	0.75	17.7	16.9	3.95	3	2.87	17.5	0.00	17.5	4	0.00	1	50.19	0.61	274.1	494.1	437		185	4.41	5.6	1.8	0.94	1.21	31.1	0.94
16.60	16.48	13.3	0.51	0.24	13.3	3.84	4	115	0.95	0.75	16.4	15.8	4.12	3	2.91	16.4	0.00	16.4	4	0.00	1	52.44	0.62	274.1	488.4	426		173	4.11	5.3	1.7	0.88	1.13	30.8	0.88
16.70	16.61	13.0	0.50	0.24	13.1	3.82	4	115	0.96	0.75	16.0	15.4	4.11	3	2.91	16.0	0.00	16.0	4	0.00	1	52.91	0.62	274.1	485.8	421		169	4.03	5.1	1.7	0.86	1.10	30.7	0.86
16.80	16.74	12.7	0.48	0.24	12.7	3.79	4	114	0.97	0.76	15.5	14.9	4.09	3	2.92	15.5	0.00	15.5	4	0.00	1	53.55	0.62	274.1	481.7	412		164	3.91	5.0	1.7	0.84	1.06	30.5	0.84
17.00	16.89	11.6	0.45	0.23	11.6	3.91	3	114	0.98	0.76	14.0	13.5	4.25	3	2.97	14.2	0.00	14.2	3	0.00	1	56.46	0.63	274.1	472.4	394		144	3.55	4.5	1.7	0.76	0.97	30.0	0.76
17.10	17.01	11.0	0.42	0.23	11.1	3.78	3	113	0.98	0.76	13.2	12.8	4.13	3	2.98	13.4	0.00	13.4	3	0.00	1	57.33	0.63	274.2	462.9	376		128	3.36	4.3	1.7	0.72	0.91	29.8	0.72
17.20	17.14	10.4	0.40	0.24	10.4	3.85	3	112	0.99	0.77	12.3	11.9	4.24	3	3.01	12.6	0.00	12.6	3	0.00	1	59.38	0.64	274.2	456.8	365		113	3.14	4.0	1.7	0.67	0.85	29.4	0.67
17.30	17.27	10.0	0.38	0.24	10.0	3.77	3	112	1.00	0.77	11.7	11.4	4.17	3	3.03	12.1	0.00	12.1	3	0.00	1	60.24	0.64	274.2	450.1	352		103	3.01	3.8	1.7	0.64	0.81	29.2	0.64
17.50	17.41	9.8	0.36	0.24	9.8	3.65	3	111	1.01	0.77	11.4	11.1	4.04	3	3.03	11.8	0.00	11.8	3	0.00	1	60.27	0.64	274.2	445.8	344		98	2.95	3.7	1.8	0.63	0.79	29.1	0.63
17.60	17.54	9.7	0.33	0.25	9.7	3.43	4	111	1.01	0.78	11.2	10.9	3.82	3	3.02	11.6	0.00	11.6	3	0.00	1	59.75	0.64	274.2	439.9	333		94	2.90	3.6	1.9	0.62	0.78	29.0	0.62
17.70	17.68	9.2	0.32	0.25	9.3	3.48	3	111	1.02	0.78	10.5	10.3	3.89	3	3.04	11.0	0.00	11.0	3	0.00	1	61.48	0.65	274.2	435.2	325		85	2.75	3.4	1.8	0.59	0.74	28.7	0.59
17.90	17.81	8.8	0.31	0.25	8.9	3.56	3	110	1.03	0.78	10.0	9.8	4.01	3	3.07	10.6	0.00	10.6	3	0.00	1	63.30	0.65	274.2	431.8	319		77	2.62	3.3	1.8	0.56	0.70	28.5	0.56
18.00	17.93	8.6	0.30	0.25	8.7	3.49	3	110	1.03	0.79	9.7	9.5	3.94	3	3.08	10.3	0.00	10.3	3	0.00	1	63.73	0.65	274.2	427.9	313		73	2.55	3.2	1.8	0.55	0.68	28.4	0.55
18.10	18.06	8.5	0.30	0.25	8.6	3.56	3	110	1.04	0.79	9.5	9.4	4.03	3	3.09	10.1	0.00	10.1	3	0.00	1	64.57	0.65	274.2	428.1	313		71	2.51	3.1	1.8	0.54	0.67	28.3	0.54
18.30	18.20	8.5	0.31	0.25	8.5	3.66	3	110	1.05	0.79	9.4	9.3	4.15	3	3.10	10.0	0.00	10.0	3	0.00	1	65.43	0.66	274.2	429.6	316		69	2.49	3.1	1.7	0.53	0.66	28.2	0.53

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Z_b (ft)	Z_m (ft)	q_c (tsf)	f_s (tsf)	u_2 (tsf)	q_t (tsf)	R_f	SBT	γ (pcf)	σ_{v0} (tsf)	σ_{v0}' (tsf)	Q_t	Q_{tn}	F_R	SBT_n	I_c	q_{c1N}	K_c	$Q_{tn,cs}$	$(SBT)_{Ic}$	B_q	$(SBT)_{Bq}$	F_C (%)	c	R	V_s (ft/s)	G_0 (tsf)	E' (tsf)	M (tsf)	σ_p' (tsf)	OCR	S_t	S_u (tsf)	S_u/σ_{v0}'	φ (°)	c' (tsf)
18.40	18.34	8.4	0.32	0.25	8.4	3.84	3	110	1.06	0.80	9.3	9.1	4.36	3	3.12	9.9	0.00	9.9	3	0.00	1	66.85	0.66	274.2	431.9	320		67	2.46	3.0	1.6	0.53	0.65	28.2	0.53
18.50	18.46	8.2	0.32	0.25	8.2	3.94	3	110	1.06	0.80	9.0	8.8	4.51	3	3.14	9.6	0.00	9.6	3	0.00	1	68.26	0.66	274.2	431.2	319		64	2.39	2.9	1.6	0.51	0.63	28.0	0.51
18.70	18.59	8.0	0.32	0.25	8.0	3.98	3	110	1.07	0.80	8.6	8.5	4.57	3	3.16	9.3	0.00	9.3	3	0.00	1	69.57	0.66	274.2	428.4	314		59	2.31	2.8	1.6	0.50	0.61	27.8	0.50
18.80	18.72	7.6	0.31	0.25	7.6	4.06	3	110	1.08	0.81	8.1	8.0	4.71	3	3.18	8.8	0.00	8.8	3	0.00	1	71.81	0.67	274.2	423.8	306		52	2.18	2.7	1.5	0.47	0.57	27.5	0.47
18.90	18.84	7.4	0.29	0.25	7.4	3.95	3	109	1.08	0.81	7.8	7.8	4.60	3	3.19	8.6	0.00	8.6	3	0.00	1	72.26	0.67	274.3	418.9	298		49	2.11	2.6	1.5	0.45	0.55	27.4	0.45
19.10	18.98	7.4	0.29	0.26	7.4	3.93	3	109	1.09	0.81	7.8	7.7	4.58	3	3.19	8.6	0.00	8.6	3	0.00	1	72.32	0.67	274.3	418.9	298		49	2.11	2.6	1.6	0.45	0.55	27.4	0.45
19.20	19.11	7.3	0.28	0.26	7.4	3.88	3	109	1.10	0.82	7.7	7.6	4.53	3	3.19	8.5	0.00	8.5	3	0.00	1	72.45	0.67	274.3	417.4	295		48	2.09	2.5	1.6	0.45	0.54	27.3	0.45
19.30	19.24	6.8	0.26	0.26	6.8	3.86	3	108	1.11	0.82	7.0	7.0	4.56	3	3.23	7.9	0.00	7.9	3	0.00	1	75.21	0.68	274.3	408.0	280		40	1.91	2.3	1.6	0.41	0.50	26.9	0.41
19.40	19.38	6.1	0.24	0.26	6.1	3.98	3	107	1.11	0.82	6.1	6.1	4.83	3	3.29	7.0	0.00	7.0	3	0.01	1	80.43	0.69	274.3	396.7	262		30	1.67	2.0	1.5	0.36	0.43	26.2	0.36
19.60	19.50	5.5	0.22	0.26	5.5	3.98	3	106	1.12	0.82	5.3	5.3	4.95	3	3.34	6.3	0.00	6.3	3	0.01	1	84.85	0.69	274.3	385.0	245		24	1.47	1.8	1.4	0.31	0.38	25.6	0.31
19.70	19.63	5.2	0.19	0.26	5.2	3.68	3	105	1.13	0.83	5.0	5.0	4.65	3	3.36	5.9	0.00	5.9	3	0.01	1	85.77	0.70	274.3	374.3	229		20	1.37	1.7	1.5	0.29	0.35	25.3	0.29
19.80	19.77	5.1	0.18	0.26	5.1	3.44	3	105	1.13	0.83	4.8	4.8	4.38	3	3.35	5.8	0.00	5.8	3	0.01	1	85.41	0.70	274.3	368.6	221		19	1.33	1.6	1.6	0.29	0.34	25.1	0.29
20.00	19.90	5.1	0.17	0.26	5.1	3.32	3	104	1.14	0.83	4.7	4.7	4.24	3	3.35	5.8	0.00	5.8	3	0.01	1	85.24	0.70	274.3	365.8	217		19	1.32	1.6	1.7	0.28	0.34	25.0	0.28
20.10	20.02	5.1	0.17	0.26	5.1	3.28	3	104	1.15	0.84	4.7	4.7	4.20	3	3.35	5.7	0.00	5.7	3	0.01	1	85.19	0.70	274.3	365.3	216		19	1.32	1.6	1.7	0.28	0.34	25.0	0.28
20.20	20.15	5.0	0.16	0.26	5.0	3.26	3	104	1.15	0.84	4.6	4.6	4.19	3	3.35	5.7	0.00	5.7	3	0.01	1	85.71	0.70	274.4	364.1	214		18	1.30	1.5	1.7	0.28	0.33	24.9	0.28
20.30	20.28	5.0	0.16	0.26	5.0	3.21	3	104	1.16	0.84	4.6	4.6	4.14	3	3.36	5.6	0.00	5.6	3	0.02	1	86.01	0.70	274.4	362.2	211		17	1.28	1.5	1.7	0.27	0.33	24.8	0.27
20.50	20.42	5.1	0.16	0.27	5.1	3.13	3	104	1.17	0.84	4.7	4.7	4.02	3	3.34	5.7	0.00	5.7	3	0.01	1	84.75	0.70	274.3	363.3	213		18	1.31	1.6	1.8	0.28	0.33	24.9	0.28
20.60	20.55	5.1	0.16	0.27	5.2	3.09	3	104	1.18	0.85	4.7	4.7	3.96	3	3.33	5.8	0.00	5.8	3	0.01	1	83.84	0.70	274.3	364.9	215		19	1.34	1.6	1.8	0.29	0.34	25.0	0.29
20.70	20.68	6.0	0.17	0.28	6.1	2.88	3	105	1.18	0.85	5.8	5.7	3.55	3	3.24	6.8	0.00	6.8	3	0.01	1	75.92	0.69	274.3	378.7	234		28	1.63	1.9	2.0	0.35	0.41	25.9	0.35
20.90	20.81	8.0	0.20	0.28	8.1	2.53	4	107	1.19	0.85	8.1	7.9	2.94	3	3.07	9.0	0.00	9.0	3	0.01	1	63.33	0.66	274.2	403.9	271		54	2.29	2.6	2.4	0.49	0.57	27.5	0.49
21.00	20.95	10.9	0.20	0.29	11.0	2.06	5	108	1.20	0.85	11.5	11.1	2.06	4	2.86	12.2	0.00	12.2	4	0.01	1	49.40	0.64	274.2	421.9	300		109	3.27	3.7	3.4	0.70	0.80	29.1	0.70
21.20	21.09	12.4	0.24	0.30	12.5	2.28	5	110	1.20	0.86	13.1	12.7	2.08	4	2.81	13.8	0.00	13.8	4	0.00	1	46.57	0.63	274.1	439.2	331		144	3.76	4.2	3.4	0.81	0.91	29.8	0.81
21.30	21.21	15.9	0.28	0.32	15.9	2.34	5	113	1.21	0.86	17.1	16.5	1.92	4	2.69	17.6	0.00	17.6	4	0.00	1	40.18	0.61	274.1	466.4	382		206	4.91	5.5	3.7	1.05	1.18	31.0	1.05
21.40	21.34	21.2	0.29	0.34	21.2	1.92	6	114	1.22	0.86	23.1	22.1	1.43	5	2.53	23.3	2.91	79.8	5	0.00	1	32.02	0.59	274.0	489.6	426	353	280	0.86	0.5				32.4	0.01
21.60	21.49	17.2	0.22	0.34	17.2	2.11	5	113	1.23	0.87	18.4	17.6	1.40	4	2.58	18.9	3.22	75.0	5	0.00	1	34.60	0.61	274.1	453.3	361	303	224	0.87	0.4				31.3	0.01
21.70	21.61	7.8	0.20	0.34	7.8	2.59	4	107	1.23	0.87	7.6	7.5	3.05	3	3.10	8.5	0.00	8.5	3	0.00	1	65.61	0.67	274.3	403.8	270		49	2.20	2.5	2.3	0.47	0.53	27.2	0.47
21.80	21.73	7.2	0.17	0.34	7.3	2.36	4	105	1.24	0.87	6.9	6.8	2.82	3	3.12	7.9	0.00	7.9	3	0.00	1	66.59	0.67	274.3	390.2	249		41	2.02	2.3	2.5	0.43	0.49	26.8	0.43
21.90	21.86	8.3	0.17	0.35	8.4	2.00	5	105	1.25	0.88	8.1	8.0	2.33	3	3.01	9.1	0.00	9.1	3	0.00	1	59.38	0.66	274.2	396.5	257		57	2.37	2.7	3.0	0.51	0.57	27.5	0.51
22.10	21.99	10.2	0.18	0.36	10.3	1.72	5	106	1.25	0.88	10.3	10.0	1.94	4	2.88	11.2	0.00	11.2	4	0.00	1	50.99	0.65	274.2	412.1	281		91	3.02	3.3	3.7	0.65	0.72	28.6	0.65
22.20	22.13	11.8	0.19	0.37	11.9	1.62	5	107	1.26	0.88	12.0	11.7	1.80	4	2.81	12.8	0.00	12.8	4	0.00	1	46.56	0.64	274.2	425.5	302		124	3.53	3.9	3.9	0.76	0.83	29.3	0.76
22.30	22.26	13.0	0.22	0.37	13.1	1.70	5	109	1.27	0.89	13.3	13.0	1.88	4	2.78	14.1	0.00	14.1	4	0.00	1	44.88	0.63	274.1	440.9	328		153	3.93	4.3	3.8	0.84	0.93	29.8	0.84
22.40	22.38	14.8	0.26	0.39	14.9	1.74	6	110	1.27	0.89	15.3	14.9	1.89	4	2.73	16.1	0.00	16.1	4	0.00	1	42.10	0.62	274.1	459.2	361		191	4.55	5.0	3.8	0.97	1.06	30.5	0.97
22.60	22.52	16.1	0.29	0.40	16.1	1.78	6	111	1.28	0.89	16.6	16.1	1.93	4	2.71	17.3	0.00	17.3	4	0.00	1	40.76	0.61	274.1	471.6	384		208	4.95	5.4	3.7	1.06	1.15	30.9	1.06
22.70	22.64	15.9	0.32	0.41	16.0	1.99	5	112	1.29	0.89	16.4	16.0	2.16	4	2.74	17.1	0.00	17.1	4	0.00	1	42.53	0.61	274.1	479.0	399		206	4.90	5.3	3.3	1.05	1.14	30.8	1.05
22.80	22.78	15.6	0.33	0.41	15.7	2.10	5	112	1.30	0.90	16.0	15.6	2.28	4	2.76	16.8	0.00	16.8	4	0.00	1	43.78	0.62	274.1	481.0	403		202	4.80	5.2	3.1	1.03	1.11	30.7	1.03
23.00	22.92	14.8	0.33	0.42	14.8	2.23	5	112	1.30	0.90	15.0	14.6	2.43	4	2.80	15.8	0.00	15.8	4	0.00	1	46.01	0.62	274.1	477.9	397		189	4.51	4.9	2.9	0.97	1.05	30.4	0.97
23.10	23.05	13.6	0.40	0.42	13.7	2.97	5	113	1.31	0.90	13.6	13.4	3.26	3	2.91	14.5	0.00	14.5	4	0.00	1	52.50	0.63	274.1	488.9	421		165	4.12	4.5	2.2	0.88	0.96	30.0	0.88
23.20	23.18	13.8	0.51	0.42	13.8	3.68	4	115	1.32	0.91	13.8	13.6	4.05	3	2.96	14.7	0.00	14.7	3	0.00	1	55.95	0.63	274.1	509.2	463		170	4.17	4.5	1.8	0.89	0.97	30.1	0.89
23.40	23.30	14.0	0.46	0.42	14.1	3.30	4	114	1.33	0.91	14.0	13.7	3.62	3	2.93	14.8	0.00	14.8	4	0.00	1	53.73	0.62	274.1	502.5	448		175	4.24	4.6	2.0	0.91	0.98	30.1	0.91
23.50	23.44	22.6	0.37	0.42	22.6	2.36	6	117	1.33	0.92	23.3	22.5	1.72	4	2.56	23.8	3.09	81.0	5	0.00	1	33.55	0.59	274.0	516.0	482	393	298	0.92	0.5				32.5	0.01
23.60	23.57	21.3	0.36	0.42	21.4	2.75	5	117	1.34	0.92	21.8	21.2	1.79	4	2.59	22.5	3.27	79.7	5	0.00	1	35.03	0.59	274.0	510.2	474	384	280	0.92	0.5				32.2	0.01
23.80	23.69	11.7	0.34	0.42	11.8	2.94	4	112	1.35	0.92	11.3	11.1	3.31	3	2.98	12.3	0.00	12.3	3	0.00	1	56.99	0.64	274.2	469.3	382		116	3.47	3.7	2.1	0.74	0.80	29.1	0.74
23.90	23.82	15.7	0.27	0.42	15.7	2.47	5	113	1.36	0.92	15.5	15.2	1.90	4	2.73	16.4	0.00	16.4	4	0.00	1	41.91	0.62	274.1	470.4	389		201	4.79	5.1	3.7	1.03	1.08	30.6	1.03
24.00	23.97	16.9	0.27	0.43	17.0	2.54	5	114	1.36	0.93	16.8	16.4	1.74	4	2.68	17.7	0.00	17.7	4	0.00	1	39.27	0.61	274.1	475.1	401		219	5.20	5.5	4.1	1.12	1.17	31.0	1.12
24.20	24.11	10.5	0.28	0.44	10.6	2.64	4	110	1.37	0.93	9.9	9.8	3.01	3	3.00	11.0	0.00	11.0	3	0.00	1	58.57	0.65	274.2	448.5	343		90	3.08	3.3	2.4	0.66	0.70	28.5	0.66
24.30	24.23	11.8	0.26	0.44	11.9	2.37	5	110	1.38	0.93	11.2	11.1	2.50	3	2.91	12.3	0.00	12.3	4	0.00	1	52.62	0.64	274.2	451.6	349		116	3.50	3.7	2.8	0.75	0.79	29.1	0.75
24.40	24.36	12.3	0.23	0.44	12.3	2.10	5	110	1.39	0.94	11.7	11.5	2.10	4	2.85	12.7	0.00	12.7	4	0.00	1	49.23	0.64	274.2	445.1	337		126	3.65	3.8	3.4	0.78	0.82	29.3	0.78
24.60	24.51	11.8	0.21	0.45	11.8	2.21	5	110	1.39	0.94	11.1	10.9	2.03	4	2.87	12.2	0.00	12.2	4	0.00	1	49.89	0.64	274.2	437.9	327		114	3.48	3.6	3.5	0.75	0.78	29.0	0.75
24.70	24.63	11.7	0.19	0.45	11.7	2.14	5	109	1.40	0.94	10.9	10.8	1.79	4	2.84	12.0	0.00	12.0	4	0.00	1	48.49	0.64	274.2	429.1	313		111	3.44	3.6	4.0	0.74	0.77	29.0	0.74
24.80	24.75	11.7	0.16	0.46	11.7	2.00	5	109	1.41	0.95	10.9	10.7	1.55	4	2.81	12.0	0.00	12.0	4	0.00	1	46.65	0.64	274.2	420.6	299		111	3.44	3.6	4.6	0.74	0.77	28.9	0.74
24.90	24.87	12.5	0.15	0.46	12.6	1.95	5	109	1.41	0.95	11.8	11.6	1.35	4	2.75	12.9	0.00	12.9	4	0.00	1	43.35	0.64	274.2	422.1	303		130	3.73	3.9	5.2	0.80	0.83	29.3	0.80
25.10	25.00	7.8	0.18	0.46	7.9	2.27	4	106	1.42	0.95	6.8	6.7	2.74	3	3.12	8.0	0.00	8.0	3	0.00	1	66.65	0.67	274.3	403.7	268		44	2.16	2.2	2.6	0.46	0.48	26.7	0.46
25.20	25.15	8.9	0.21	0.47	9.0	2.34	4	107	1.43	0.96	7.9	7.8	2.76	3	3.06	9.1	0.00	9.1	3	0.00	1	62.83	0.66	274.2	421.2	296		59	2.51	2.6	2.6	0.54	0.56	27.4	0.54
25.30	25.28	15.7	0.22	0.47	15.8	2.32	5	113	1.44	0.96	15.0	14.7	1.56	4	2.70	16.0	0.00	16.0	4	0.00	1	40.21	0.62	274.1	460.8	372		201	4.79	4.9	4.5	1.03	1.05	30.4	1.03
25.50	25.40	9.2	0.24	0.47	9.3	2.65	4	109	1.44	0.96	8.2	8.1	3.11	3	3.08	9.4	0.00	9.4	3	0.00	1	63.91	0.66	274.2	434.4	318		64	2.62	2.7	2.3	0.56	0.58	27.6	0.56
25.60	25.53	8.3	0.25	0.47	8.4	2.94	4	108	1.45	0.97	7.2	7.2	3.52	3	3.15	8.5	0.00	8.5	3	0.00	1	69.35	0.67	274.3	428.9	310		50	2.33	2.4	2.0	0.50	0.51	27.0	0.50
25.70	25.66	7.9	0.23	0.47	7.9	2.92	4	108	1.46	0.97	6.7	6.7	3.54	3	3.18	8.0	0.00	8.0	3	0.00	1	71.55	0.67	274.3	421.2	297		43	2.16	2.2	2.0	0.46	0.48	26.7	0.46
25.90	25.79	8.1	0.22	0.47	8.2	2.67	4	107	1.46	0.97	6.9	6.9	3.22	3	3.15	8.2	0.00	8.2	3	0.00	1	68.92	0.67	274.3	419.6	293		46	2.24	2.3	2.2	0.48	0.49	26.8	0.48
26.00	25.93	8.6	0.21	0.48	8.7	2.40	4	107	1.47	0.97	7.4	7.4	2.86	3	3.09	8.7	0.00	8.7	3	0.00	1	64.90	0.67	274.2	420.9	295		54	2.42	2.5	2.5	0.52	0.53	27.2	0.52
26.10	26.06	14.8	0.20	0.48	14.9	2.20	5	112	1.48	0.98	13.7	13.5	1.49	4	2.72	14.9	0.00	14.9	4	0.00	1	41.38	0.62	274.1	451.7	355		182	4.47	4.5	4.8	0.96	0.97	30.0	0.96
26.30	26.19	9.3	0.27	0.48	9.4	2.88	4	109	1.49	0.98	8.0	8.0	3.40	3	3.11	9.3	0.00	9.3	3	0.00	1	65.93	0.66	274.2	442.4	332		63	2.62	2.7	2.1	0.56	0.57	27.5	0.56
26.40	26.33	9.2	0.35	0.49	9.3	3.79	3	111	1.49	0.98	7.9	7.9	4.47	3	3.18	9.2	0.00	9.2	3	0.00	1	71.54	0.66	274.2	460.8	367		61	2.59	2.6	1.6	0.55	0.56	27.5	0.55
26.50	26.46	13.9	0.38	0.52	14.0	2.78	5	113	1.50	0.99	12.6	12.5	3.06	3	2.92	13.9	0.00	13.9	4	0.00	1	53.20	0.63	274.1	494.7	430		156	4.16	4.2	2.3	0.89	0.90	29.7	0.89
26.70	26.59	16.2	0.34	0.52	16.2	2.10	5	112	1.51	0.99	14.9	14.7	2.30	4	2.79	16.1	0.00	16.1	4	0.00	1	45.39	0.62	274.1	495.6	429		206	4.91	4.9	3.1	1.05	1.05	30.5	1.05
26.80	26.72	13.6	0.27	0.45	13.7	2.00	5	110	1.51	0.99	12.2	12.1	2.23	4	2.85	13.5	0.00	13.5	4	0.01	1	49.10	0.63	274.1	468.2	376		147	4.05	4.0	3.2	0.87	0.87	29.5	0.87
26.90	26.86	11.6	0.25	0.44	11.7	2.15	5	109	1.52	1.00	10.2	10.1	2.45	3	2.94	11.5	0.00	11.5	4	0.01	1	54.62	0.64	274.2	452.7	348		103	3.38	3.4	2.9	0.73	0.72	28.7	0.73
27.00	26.99	11.0	0.25	0.45	11.0	2.31	5	109	1.53	1.00	9.5	9.5	2.66	3	2.99	10.8	0.00	10.8	3	0.01	1	57.53	0.65	274.2	450.9	345		90	3.17	3.2	2.7	0.68	0.68	28.3	0.68
27.20	27.11	11.1	0.29	0.46	11.2	2.56	5	110	1.54	1.00	9.6	9.6	2.95	3	3.01	11.0	0.00	11.0	3	0.01	1	58.93	0.65	274.2	460.1	362		92	3.22	3.2	2.4	0.69	0.68	28.4	0.69
27.30	27.26	12.0	0.33	0.46	12.1	2.74	5	111	1.54	1.01	10.5	10.5	3.12	3	2.99	11.8	0.00	11.8	3	0.01	1	57.77	0.64	274.2	476.2	393		110	3.52	3.5	2.3	0.75	0.75	28.8	0.75

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Z_b (ft)	Z_m (ft)	q_c (tsf)	f_s (tsf)	u_2 (tsf)	q_t (tsf)	R_f	SBT	γ (pcf)	σ_{v0} (tsf)	σ_{v0}' (tsf)	Q_t	Q_{tn}	F_R	SBT_n	I_c	q_{c1N}	K_c	$Q_{tn,cs}$	$(SBT)_{Ic}$	B_q	$(SBT)_{Bq}$	F_C (%)	c	R	V_s (ft/s)	G_0 (tsf)	E' (tsf)	M (tsf)	σ_p' (tsf)	OCR	S_t	S_u (tsf)	S_u/σ_{v0}'	φ (°)	c' (tsf)
27.40	27.38	12.3	0.35	0.46	12.4	2.81	5	112	1.55	1.01	10.8	10.7	3.19	3	2.99	12.1	0.00	12.1	3	0.01	1	57.57	0.64	274.2	481.6	403		116	3.62	3.6	2.2	0.78	0.76	28.9	0.78
27.60	27.51	11.6	0.34	0.47	11.7	2.94	4	112	1.56	1.01	10.0	10.0	3.37	3	3.02	11.4	0.00	11.4	3	0.01	1	60.11	0.65	274.2	477.4	395		102	3.39	3.3	2.1	0.73	0.71	28.6	0.73
27.70	27.65	11.5	0.34	0.47	11.5	3.01	4	112	1.57	1.02	9.8	9.8	3.46	3	3.04	11.2	0.00	11.2	3	0.01	1	61.17	0.65	274.2	477.2	395		97	3.32	3.3	2.1	0.71	0.70	28.5	0.71
27.80	27.78	11.7	0.36	0.47	11.8	3.03	4	112	1.57	1.02	10.1	10.0	3.47	3	3.03	11.4	0.00	11.4	3	0.01	1	60.59	0.64	274.2	481.5	403		103	3.42	3.3	2.0	0.73	0.72	28.6	0.73
28.00	27.91	12.0	0.36	0.48	12.1	3.00	4	112	1.58	1.02	10.3	10.3	3.43	3	3.02	11.7	0.00	11.7	3	0.01	1	59.80	0.64	274.2	484.5	409		108	3.51	3.4	2.1	0.75	0.73	28.7	0.75
28.10	28.04	11.9	0.35	0.48	12.0	2.92	4	112	1.59	1.03	10.1	10.1	3.35	3	3.02	11.5	0.00	11.5	3	0.01	1	59.84	0.64	274.2	481.1	402		105	3.46	3.4	2.1	0.74	0.72	28.6	0.74
28.20	28.16	11.5	0.32	0.49	11.5	2.83	4	111	1.59	1.03	9.7	9.6	3.26	3	3.03	11.1	0.00	11.1	3	0.01	1	60.51	0.65	274.2	473.9	388		96	3.31	3.2	2.2	0.71	0.69	28.4	0.71
28.40	28.29	10.9	0.30	0.49	11.0	2.77	4	110	1.60	1.03	9.1	9.0	3.22	3	3.05	10.5	0.00	10.5	3	0.01	1	61.88	0.65	274.2	465.3	372		85	3.12	3.0	2.2	0.67	0.65	28.1	0.67
28.50	28.42	10.5	0.27	0.49	10.6	2.60	4	110	1.61	1.03	8.7	8.6	3.04	3	3.05	10.1	0.00	10.1	3	0.01	1	62.08	0.66	274.2	456.2	355		77	2.98	2.9	2.3	0.64	0.62	27.9	0.64
28.60	28.54	10.3	0.27	0.49	10.4	2.66	4	110	1.62	1.04	8.4	8.4	3.12	3	3.07	9.9	0.00	9.9	3	0.01	1	63.15	0.66	274.2	455.5	353		74	2.92	2.8	2.3	0.63	0.60	27.8	0.63
28.70	28.68	11.7	0.30	0.49	11.8	2.52	5	111	1.62	1.04	9.8	9.8	2.89	3	2.99	11.2	0.00	11.2	3	0.01	1	58.14	0.65	274.2	469.6	379		100	3.40	3.3	2.5	0.73	0.70	28.5	0.73
28.90	28.81	13.0	0.28	0.49	13.1	2.17	5	110	1.63	1.04	11.0	11.0	2.47	3	2.92	12.4	0.00	12.4	4	0.01	1	52.99	0.64	274.2	473.3	384		126	3.82	3.7	2.9	0.82	0.78	29.0	0.82
29.00	28.96	12.0	0.27	0.50	12.1	2.27	5	110	1.64	1.05	10.0	10.0	2.60	3	2.96	11.5	0.00	11.5	3	0.01	1	55.98	0.64	274.2	466.2	371		105	3.49	3.3	2.7	0.75	0.71	28.6	0.75
29.20	29.10	11.6	0.27	0.50	11.7	2.29	5	110	1.65	1.05	9.5	9.5	2.65	3	2.98	11.0	0.00	11.0	3	0.01	1	57.37	0.65	274.2	462.2	364		96	3.34	3.2	2.7	0.72	0.68	28.4	0.72
29.30	29.22	11.3	0.25	0.50	11.3	2.19	5	109	1.65	1.05	9.2	9.2	2.54	3	2.99	10.7	0.00	10.7	3	0.01	1	57.63	0.65	274.2	455.4	352		89	3.23	3.1	2.8	0.69	0.66	28.2	0.69
29.40	29.34	11.3	0.25	0.50	11.3	2.20	5	109	1.66	1.06	9.2	9.2	2.56	3	2.99	10.7	0.00	10.7	3	0.01	1	57.82	0.65	274.2	456.1	353		89	3.23	3.1	2.8	0.69	0.65	28.2	0.69
29.50	29.48	11.0	0.25	0.51	11.1	2.23	5	109	1.67	1.06	8.9	8.9	2.61	3	3.00	10.4	0.00	10.4	3	0.01	1	58.82	0.65	274.2	454.4	350		84	3.14	3.0	2.7	0.67	0.64	28.0	0.67
29.70	29.60	9.9	0.25	0.51	10.0	2.48	5	109	1.67	1.06	7.8	7.8	2.95	3	3.08	9.3	0.00	9.3	3	0.01	1	64.13	0.66	274.2	447.7	339		65	2.77	2.6	2.4	0.59	0.56	27.4	0.59
29.80	29.74	8.9	0.23	0.51	9.0	2.60	4	108	1.68	1.07	6.8	6.8	3.17	3	3.15	8.3	0.00	8.3	3	0.01	1	68.99	0.67	274.3	437.0	321		50	2.43	2.3	2.2	0.52	0.49	26.8	0.52
29.90	29.88	9.0	0.22	0.51	9.1	2.47	4	108	1.69	1.07	6.9	6.9	3.00	3	3.13	8.4	0.00	8.4	3	0.02	1	67.76	0.67	274.3	435.2	317		51	2.46	2.3	2.4	0.53	0.49	26.8	0.53
30.10	29.99	13.0	0.21	0.52	13.1	2.24	5	111	1.70	1.07	10.6	10.7	1.81	4	2.86	12.2	0.00	12.2	4	0.01	1	49.26	0.64	274.2	454.4	355		122	3.80	3.6	3.9	0.81	0.76	28.9	0.81
30.20	30.14	13.6	0.19	0.52	13.7	2.15	5	111	1.70	1.08	11.2	11.2	1.55	4	2.80	12.7	0.00	12.7	4	0.01	1	46.19	0.64	274.2	451.2	351		134	4.00	3.7	4.6	0.86	0.80	29.1	0.86
30.30	30.27	8.3	0.19	0.52	8.4	2.24	4	106	1.71	1.08	6.2	6.2	2.78	3	3.15	7.7	0.00	7.7	3	0.02	1	69.42	0.68	274.3	419.9	291		41	2.23	2.1	2.5	0.48	0.44	26.3	0.48
30.50	30.39	8.2	0.18	0.52	8.2	2.25	4	106	1.72	1.08	6.0	6.0	2.81	3	3.17	7.6	0.00	7.6	3	0.02	1	70.32	0.68	274.3	418.1	288		39	2.17	2.0	2.5	0.47	0.43	26.2	0.47
30.60	30.53	8.0	0.17	0.52	8.0	2.15	4	105	1.72	1.08	5.8	5.8	2.70	3	3.17	7.4	0.00	7.4	3	0.02	1	70.57	0.68	274.3	412.6	279		37	2.11	1.9	2.6	0.45	0.42	26.0	0.45
30.70	30.66	7.7	0.16	0.52	7.8	2.08	4	105	1.73	1.09	5.5	5.5	2.65	3	3.18	7.1	0.00	7.1	3	0.02	1	71.72	0.69	274.3	406.5	269		33	2.01	1.8	2.7	0.43	0.40	25.8	0.43
30.90	30.79	7.1	0.15	0.52	7.2	2.15	4	104	1.74	1.09	5.0	5.0	2.81	3	3.23	6.5	0.00	6.5	3	0.02	1	75.75	0.69	274.3	399.1	258		27	1.81	1.7	2.5	0.39	0.36	25.3	0.39
31.00	30.94	7.3	0.16	0.52	7.4	2.23	4	105	1.75	1.09	5.1	5.2	2.88	3	3.23	6.7	0.00	6.7	3	0.02	1	75.32	0.69	274.3	404.4	266		29	1.87	1.7	2.5	0.40	0.37	25.4	0.40
31.10	31.06	8.7	0.16	0.52	8.8	1.84	5	105	1.75	1.10	6.4	6.4	2.26	3	3.09	8.0	0.00	8.0	3	0.02	1	65.02	0.68	274.3	414.7	281		45	2.34	2.1	3.1	0.50	0.46	26.5	0.50
31.20	31.18	11.2	0.18	0.52	11.3	1.60	5	107	1.76	1.10	8.7	8.7	1.88	4	2.94	10.3	0.00	10.3	4	0.01	1	54.49	0.65	274.2	438.4	319		83	3.18	2.9	3.8	0.68	0.62	27.9	0.68
31.40	31.31	10.4	0.23	0.52	10.5	2.18	5	108	1.77	1.10	8.0	8.0	2.59	3	3.04	9.6	0.00	9.6	3	0.02	1	61.56	0.66	274.2	448.9	339		70	2.92	2.7	2.7	0.63	0.57	27.5	0.63
31.50	31.44	11.2	0.21	0.54	11.3	1.90	5	108	1.77	1.10	8.6	8.7	2.23	3	2.98	10.3	0.00	10.3	3	0.01	1	57.12	0.65	274.2	449.4	339		83	3.18	2.9	3.2	0.68	0.62	27.9	0.68
31.60	31.57	12.1	0.19	0.55	12.2	1.58	5	107	1.78	1.11	9.4	9.4	1.83	4	2.90	11.0	0.00	11.0	4	0.01	1	52.26	0.65	274.2	447.5	334		98	3.46	3.1	3.9	0.74	0.67	28.3	0.74
31.80	31.72	12.1	0.20	0.56	12.2	1.62	5	107	1.79	1.11	9.4	9.4	1.88	4	2.91	11.0	0.00	11.0	4	0.01	1	52.74	0.65	274.2	449.5	338		98	3.46	3.1	3.8	0.74	0.67	28.3	0.74
31.90	31.85	12.4	0.21	0.57	12.5	1.71	5	108	1.79	1.11	9.6	9.7	1.98	4	2.91	11.2	0.00	11.2	4	0.01	1	52.89	0.65	274.2	456.4	350		103	3.56	3.2	3.6	0.76	0.69	28.4	0.76
32.00	31.96	15.6	0.21	0.58	15.7	1.35	6	109	1.80	1.12	12.4	12.5	1.51	4	2.76	14.1	0.00	14.1	4	0.01	1	43.52	0.63	274.1	470.7	374		174	4.62	4.2	4.7	0.99	0.90	29.7	0.99
32.20	32.11	20.7	0.37	0.60	20.8	1.75	6	113	1.81	1.12	16.9	17.1	1.94	4	2.70	18.7	0.00	18.7	4	0.00	1	40.48	0.61	274.1	531.3	498		266	6.32	5.7	3.7	1.35	1.22	31.2	1.35
32.30	32.24	24.1	0.52	0.60	24.2	2.17	6	117	1.82	1.12	19.9	20.1	2.34	4	2.69	21.7	0.00	21.7	4	0.00	1	39.92	0.59	274.0	573.0	595		313	7.45	6.7	3.0	1.60	1.44	31.9	1.60
32.40	32.36	30.8	0.73	0.61	30.9	2.35	6	120	1.82	1.13	25.8	26.2	2.49	4	2.62	27.8	0.00	27.8	4	0.00	1	36.18	0.58	274.0	624.1	724		407	9.70	8.7	2.8	2.08	1.87	33.2	2.08
32.60	32.48	41.4	0.80	0.49	41.5	1.93	6	121	1.83	1.13	35.1	35.7	2.01	5	2.43	37.4	2.42	95.8	5	0.01	1	27.58	0.55	273.9	646.5	787	616	555	1.13	0.9				34.7	0.02
32.70	32.62	37.6	0.73	-0.17	37.6	1.93	6	120	1.84	1.13	31.5	32.1	2.03	5	2.46	33.9	2.58	92.1	5	0.02	1	29.13	0.56	274.0	628.2	737	582	500	1.13	0.8				34.2	0.02
32.80	32.76	28.7	0.57	-0.26	28.7	2.00	6	118	1.85	1.14	23.6	24.0	2.14	4	2.61	25.7	0.00	25.7	4	0.04	1	35.74	0.58	274.0	596.0	650		376	8.95	8.0	3.3	1.92	1.71	32.8	1.92
33.00	32.89	22.6	0.45	-0.35	22.6	1.99	6	115	1.86	1.14	18.1	18.4	2.16	4	2.70	20.2	0.00	20.2	4	0.05	1	40.60	0.60	274.1	555.9	553		290	6.90	6.1	3.3	1.48	1.31	31.5	1.48
33.10	33.02	14.9	0.37	-0.38	14.8	2.48	5	113	1.86	1.14	11.3	11.4	2.85	3	2.94	13.2	0.00	13.2	4	0.08	1	54.48	0.63	274.2	511.1	458		148	4.32	3.8	2.5	0.93	0.82	29.2	0.93
33.20	33.16	12.3	0.29	-0.38	12.2	2.38	5	110	1.87	1.15	9.0	9.1	2.83	3	3.02	10.9	0.00	10.9	3	0.11	1	59.83	0.65	274.2	480.2	396		94	3.45	3.0	2.5	0.74	0.65	28.1	0.74
33.40	33.30	10.4	0.26	-0.37	10.4	2.51	5	109	1.88	1.15	7.4	7.4	3.09	3	3.11	9.2	0.00	9.2	3	0.13	1	66.47	0.66	274.2	461.8	362		63	2.83	2.5	2.3	0.61	0.53	27.2	0.61
33.50	33.42	10.0	0.26	-0.37	9.9	2.58	4	109	1.88	1.15	7.0	7.0	3.20	3	3.14	8.8	0.00	8.8	3	0.14	1	68.61	0.67	274.3	457.9	355		56	2.68	2.3	2.2	0.57	0.50	26.9	0.57
33.60	33.55	10.0	0.24	-0.37	10.0	2.42	5	109	1.89	1.16	7.0	7.0	3.00	3	3.13	8.9	0.00	8.9	3	0.14	1	67.39	0.67	274.2	454.4	348		57	2.70	2.3	2.4	0.58	0.50	26.9	0.58
33.70	33.68	11.0	0.23	-0.37	10.9	2.12	5	108	1.90	1.16	7.8	7.8	2.58	3	3.05	9.6	0.00	9.6	3	0.12	1	62.11	0.66	274.2	457.7	353		70	3.00	2.6	2.7	0.64	0.56	27.4	0.64
33.90	33.80	14.0	0.27	-0.36	14.0	1.91	5	110	1.91	1.16	10.4	10.5	2.21	4	2.91	12.3	0.00	12.3	4	0.09	1	52.68	0.64	274.2	484.0	401		126	4.02	3.5	3.2	0.86	0.75	28.8	0.86
34.00	33.94	16.4	0.24	-0.36	16.3	1.46	6	110	1.91	1.17	12.4	12.6	1.66	4	2.78	14.4	0.00	14.4	4	0.08	1	44.85	0.63	274.1	487.3	405		181	4.81	4.2	4.3	1.03	0.90	29.7	1.03
34.10	34.07	16.8	0.25	-0.36	16.7	1.49	6	110	1.92	1.17	12.7	12.9	1.69	4	2.78	14.7	0.00	14.7	4	0.08	1	44.57	0.63	274.1	492.2	414		191	4.94	4.3	4.2	1.06	0.92	29.8	1.06
34.30	34.19	15.9	0.28	-0.36	15.8	1.76	6	111	1.93	1.17	11.8	12.0	2.01	4	2.84	13.8	0.00	13.8	4	0.08	1	48.33	0.63	274.1	496.5	424		167	4.63	4.0	3.5	0.99	0.86	29.5	0.99
34.40	34.33	15.8	0.31	-0.35	15.7	1.97	5	112	1.93	1.18	11.7	11.9	2.26	4	2.87	13.7	0.00	13.7	4	0.08	1	50.21	0.63	274.1	504.5	441		164	4.59	4.0	3.1	0.98	0.85	29.4	0.98
34.50	34.46	16.9	0.33	-0.35	16.9	1.95	6	112	1.94	1.18	12.7	12.9	2.21	4	2.84	14.7	0.00	14.7	4	0.07	1	48.20	0.62	274.1	514.3	461		192	4.98	4.3	3.2	1.07	0.92	29.8	1.07
34.70	34.59	17.0	0.32	-0.34	16.9	1.88	6	112	1.95	1.18	12.7	12.9	2.12	4	2.83	14.7	0.00	14.7	4	0.07	1	47.61	0.62	274.1	511.8	456		193	4.99	4.3	3.3	1.07	0.92	29.8	1.07
34.80	34.73	17.7	0.31	-0.34	17.7	1.77	6	112	1.96	1.19	13.2	13.5	1.98	4	2.80	15.3	0.00	15.3	4	0.07	1	45.73	0.62	274.1	513.3	458		212	5.23	4.5	3.6	1.12	0.96	30.0	1.12
34.90	34.86	14.9	0.30	-0.33	14.8	2.03	5	111	1.96	1.19	10.8	10.9	2.35	4	2.91	12.8	0.00	12.8	4	0.09	1	52.62	0.64	274.2	498.9	430		140	4.28	3.6	3.0	0.92	0.78	29.0	0.92
35.00	34.99	14.8	0.29	-0.33	14.7	1.94	5	111	1.97	1.19	10.7	10.8	2.25	4	2.90	12.7	0.00	12.7	4	0.09	1	52.23	0.64	274.2	495.0	422		138	4.24	3.6	3.2	0.91	0.77	29.0	0.91
35.20	35.12	15.8	0.36	-0.32	15.7	2.31	5	113	1.98	1.19	11.5	11.7	2.65	3	2.92	13.6	0.00	13.6	4	0.08	1	53.03	0.63	274.1	518.4	471		160	4.58	3.9	2.7	0.98	0.83	29.3	0.98
35.30	35.25	16.4	0.38	-0.32	16.3	2.33	5	113	1.99	1.20	12.0	12.2	2.66	3	2.90	14.1	0.00	14.1	4	0.08	1	52.14	0.63	274.1	525.4	486		175	4.79	4.1	2.7	1.03	0.87	29.5	1.03
35.40	35.38	16.2	0.39	-0.31	16.2	2.46	5	113	1.99	1.20	11.8	12.0	2.79	3	2.92	13.9	0.00	13.9	4	0.08	1	53.25	0.63	274.1	527.6	491		169	4.72	4.0	2.5	1.01	0.85	29.5	1.01
35.60	35.52	17.3	0.41	-0.31	17.3	2.36	5	114	2.00	1.21	12.7	12.9	2.68	4	2.88	14.8	0.00	14.8	4	0.07	1	51.01	0.62	274.1	535.6	507		197	5.09	4.3	2.7	1.09	0.92	29.8	1.09
35.70	35.66	16.6	0.40	-0.30	16.5	2.40	5	114	2.01	1.21	12.0	12.2	2.75	3	2.91	14.1	0.00	14.1	4	0.08	1	52.56	0.63	274.1	530.8	497		178	4.84	4.1	2.6	1.04	0.87	29.6	1.04
35.80	35.78	16.2	0.39	-0.30	16.1	2.41	5	113	2.02	1.21	11.6	11.8	2.76	3	2.92	13.7	0.00	13.7	4	0.08	1	53.41	0.63	274.1	527.1	489		166	4.70	3.9	2.6	1.01	0.84	29.4	1.01
36.00	35.90	15.7	0.38	-0.29	15.6	2.44	5	113	2.02	1.21	11.2	11.4	2.81	3	2.94	13.3	0.00	13.3	4	0.08	1	54.56	0.63	274.2	523.7	482		155	4.53	3.8	2.5	0.97	0.81	29.2	0.97
36.10	36.04	15.2	0.36	-0.29	15.1	2.36	5	113	2.03	1.22	10.8	10.9	2.73	3	2.95	12.9	0.00	12.9	4	0.08	1	55.01	0.64	274.2	516.5	466		143	4.37	3.6	2.6	0.94	0.78	29.0	0.94
36.20	36.17	14.8	0.36	-0.29	14.7	2.42	5	112	2.04	1.22	10.4	10.5	2.82	3	2.97	12.5	0.00	12.5	3	0.09	1	56.43	0.64	274.2	514.6	463		133	4.22	3.5	2.5	0.90	0.75	28.8	0.90
36.40	36.30	16.2	0.35	-0.29	16.1	2.16	5	112	2.05	1.22	11.5	11.7	2.48	4	2.90	13.6	0.00	13.6	4	0.08	1	52.01	0.63	274.1	519.2	471		164	4.69	3.9	2.9	1.00	0.83	29.3	1.00

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Z_b (ft)	Z_m (ft)	q_c (tsf)	f_s (tsf)	u_2 (tsf)	q_t (tsf)	R_f	SBT	γ (pcf)	σ_{v0} (tsf)	σ_{v0}' (tsf)	Q_t	Q_{tn}	F_R	SBT_n	I_c	q_{c1N}	K_c	$Q_{tn,cs}$	$(SBT)_{Ic}$	B_q	$(SBT)_{Bq}$	F_C (%)	c	R	V_s (ft/s)	G_0 (tsf)	E' (tsf)	M (tsf)	σ_p' (tsf)	OCR	S_t	S_u (tsf)	S_u/σ_{v0}'	φ (°)	c' (tsf)
36.50	36.45	17.7	0.33	-0.29	17.6	1.87	6	112	2.05	1.23	12.7	12.9	2.12	4	2.83	14.8	0.00	14.8	4	0.07	1	47.63	0.62	274.1	521.7	475		201	5.19	4.3	3.3	1.11	0.92	29.8	1.11
36.60	36.57	16.2	0.33	-0.29	16.1	2.04	5	112	2.06	1.23	11.4	11.6	2.35	4	2.89	13.6	0.00	13.6	4	0.08	1	51.39	0.63	274.1	515.7	463		163	4.68	3.9	3.0	1.00	0.83	29.3	1.00
36.80	36.69	15.9	0.37	-0.28	15.8	2.34	5	113	2.07	1.23	11.1	11.3	2.70	3	2.93	13.3	0.00	13.3	4	0.08	1	54.05	0.63	274.2	524.1	482		156	4.58	3.8	2.6	0.98	0.81	29.2	0.98
36.90	36.82	15.7	0.39	-0.28	15.7	2.50	5	113	2.07	1.24	11.0	11.2	2.89	3	2.95	13.1	0.00	13.1	3	0.08	1	55.44	0.63	274.2	528.3	491		152	4.53	3.7	2.5	0.97	0.80	29.1	0.97
37.00	36.94	15.4	0.42	-0.28	15.3	2.74	5	114	2.08	1.24	10.7	10.8	3.18	3	2.99	12.8	0.00	12.8	3	0.08	1	57.70	0.64	274.2	532.9	502		144	4.42	3.6	2.2	0.95	0.77	29.0	0.95
37.20	37.09	15.7	0.42	-0.27	15.7	2.69	5	114	2.09	1.24	10.9	11.1	3.11	3	2.97	13.1	0.00	13.1	3	0.08	1	56.78	0.63	274.2	534.9	506		151	4.53	3.7	2.3	0.97	0.79	29.1	0.97
37.30	37.22	16.4	0.42	-0.27	16.3	2.59	5	114	2.10	1.25	11.4	11.6	2.98	3	2.95	13.6	0.00	13.6	4	0.08	1	55.12	0.63	274.1	538.3	513		165	4.74	3.9	2.4	1.02	0.83	29.3	1.02
37.40	37.35	16.8	0.43	-0.27	16.8	2.55	5	114	2.10	1.25	11.7	12.0	2.92	3	2.93	14.0	0.00	14.0	4	0.08	1	54.11	0.63	274.1	541.8	521		176	4.89	4.0	2.4	1.05	0.85	29.5	1.05
37.50	37.47	17.4	0.43	-0.27	17.3	2.49	5	114	2.11	1.25	12.1	12.4	2.84	3	2.91	14.4	0.00	14.4	4	0.07	1	52.92	0.63	274.1	545.0	527		188	5.07	4.1	2.5	1.09	0.88	29.6	1.09
37.70	37.61	17.0	0.47	-0.27	17.0	2.75	5	115	2.12	1.26	11.8	12.0	3.15	3	2.95	14.1	0.00	14.1	4	0.08	1	55.13	0.63	274.1	550.7	541		179	4.96	4.0	2.3	1.06	0.86	29.5	1.06
37.80	37.74	16.4	0.50	-0.27	16.4	3.07	5	115	2.13	1.26	11.3	11.5	3.54	3	3.00	13.5	0.00	13.5	3	0.08	1	58.19	0.63	274.1	554.8	551		163	4.74	3.8	2.0	1.02	0.82	29.3	1.02
37.90	37.87	16.0	0.51	-0.27	15.9	3.20	5	115	2.13	1.27	10.9	11.1	3.71	3	3.02	13.1	0.00	13.1	3	0.08	1	59.82	0.63	274.2	554.4	551		153	4.59	3.7	1.9	0.98	0.79	29.1	0.98
38.10	38.01	16.5	0.51	-0.26	16.4	3.12	5	115	2.14	1.27	11.2	11.4	3.60	3	3.00	13.5	0.00	13.5	3	0.08	1	58.58	0.63	274.1	557.4	557		163	4.75	3.8	2.0	1.02	0.82	29.2	1.02
38.20	38.14	17.1	0.54	-0.26	17.0	3.18	5	116	2.15	1.27	11.7	11.9	3.65	3	2.99	14.0	0.00	14.0	3	0.08	1	57.88	0.63	274.1	565.7	577		177	4.96	4.0	1.9	1.06	0.85	29.4	1.06
38.30	38.26	17.9	0.59	-0.26	17.8	3.29	5	117	2.16	1.28	12.3	12.5	3.75	3	2.98	14.6	0.00	14.6	3	0.07	1	57.21	0.62	274.1	576.6	603		196	5.22	4.2	1.9	1.12	0.89	29.7	1.12
38.50	38.40	21.4	0.63	-0.25	21.4	2.94	5	118	2.17	1.28	15.0	15.4	3.28	3	2.88	17.4	0.00	17.4	4	0.06	1	50.56	0.61	274.1	597.6	653		269	6.40	5.1	2.2	1.37	1.10	30.7	1.37
38.60	38.55	22.2	0.65	-0.25	22.2	2.94	5	118	2.17	1.28	15.6	16.0	3.27	4	2.86	18.1	0.00	18.1	4	0.06	1	49.70	0.61	274.1	604.7	671		280	6.67	5.3	2.2	1.43	1.14	30.8	1.43
38.70	38.67	22.7	0.66	-0.25	22.7	2.90	5	118	2.18	1.29	15.9	16.4	3.21	4	2.85	18.4	0.00	18.4	4	0.06	1	48.97	0.61	274.1	607.2	677		287	6.83	5.5	2.2	1.46	1.17	30.9	1.46
38.90	38.79	23.3	0.64	-0.25	23.3	2.77	5	118	2.19	1.29	16.3	16.8	3.06	4	2.83	18.9	0.00	18.9	4	0.05	1	47.69	0.60	274.1	607.4	677		295	7.02	5.6	2.3	1.50	1.20	31.1	1.50
39.00	38.92	23.7	0.64	-0.25	23.7	2.68	5	118	2.20	1.29	16.6	17.1	2.96	4	2.81	19.2	0.00	19.2	4	0.05	1	46.85	0.60	274.1	608.0	678		301	7.16	5.7	2.4	1.54	1.22	31.2	1.54
39.10	39.05	22.9	0.64	-0.24	22.9	2.77	5	118	2.20	1.30	15.9	16.4	3.07	4	2.84	18.5	0.00	18.5	4	0.06	1	48.27	0.61	274.1	605.4	671		289	6.89	5.5	2.3	1.48	1.17	31.0	1.48
39.30	39.19	22.9	0.64	-0.24	22.9	2.79	5	118	2.21	1.30	15.9	16.3	3.09	4	2.84	18.4	0.00	18.4	4	0.06	1	48.42	0.61	274.1	606.2	673		289	6.89	5.4	2.3	1.48	1.17	30.9	1.48
39.40	39.32	23.5	0.66	-0.24	23.5	2.79	5	118	2.22	1.30	16.3	16.8	3.08	4	2.83	18.9	0.00	18.9	4	0.05	1	47.83	0.60	274.1	611.4	686		298	7.09	5.6	2.3	1.52	1.20	31.1	1.52
39.50	39.45	24.5	0.72	-0.24	24.4	2.93	5	119	2.23	1.31	17.0	17.5	3.23	4	2.83	19.6	0.00	19.6	4	0.05	1	47.76	0.60	274.1	624.0	720		311	7.40	5.8	2.2	1.59	1.25	31.3	1.59
39.70	39.59	25.6	0.85	-0.23	25.5	3.33	5	120	2.24	1.31	17.7	18.3	3.66	3	2.85	20.4	0.00	20.4	4	0.05	1	48.84	0.60	274.1	646.6	782		326	7.76	6.1	1.9	1.66	1.31	31.5	1.66
39.80	39.72	26.6	0.96	-0.23	26.6	3.60	5	121	2.24	1.32	18.5	19.1	3.93	3	2.85	21.2	0.00	21.2	4	0.05	1	49.18	0.59	274.0	663.6	830		341	8.12	6.4	1.8	1.74	1.36	31.7	1.74
39.90	39.84	27.1	0.97	-0.23	27.0	3.60	5	122	2.25	1.32	18.8	19.4	3.93	3	2.85	21.5	0.00	21.5	4	0.05	1	48.88	0.59	274.0	667.3	841		347	8.26	6.5	1.8	1.77	1.38	31.8	1.77
40.00	39.97	26.5	0.99	-0.23	26.5	3.75	5	122	2.26	1.32	18.3	18.9	4.10	3	2.87	21.1	0.00	21.1	4	0.05	1	50.08	0.60	274.0	668.4	844		339	8.08	6.3	1.7	1.73	1.35	31.6	1.73
40.20	40.11	25.3	0.96	-0.22	25.3	3.79	4	121	2.27	1.33	17.3	17.8	4.17	3	2.89	20.0	0.00	20.0	4	0.05	1	51.47	0.60	274.1	660.8	823		322	7.68	5.9	1.7	1.64	1.27	31.4	1.64
40.30	40.24	40.1	0.87	-0.22	40.0	3.54	5	125	2.28	1.33	28.4	30.0	2.31	4	2.51	32.1	2.78	90.7	5	0.03	1	30.94	0.56	274.0	662.7	855	648	529	1.33	0.7				33.8	0.02
40.40	40.37	23.4	0.86	-0.22	23.4	3.70	4	120	2.28	1.34	15.8	16.2	4.11	3	2.92	18.4	0.00	18.4	4	0.06	1	53.22	0.61	274.1	643.3	773		295	7.02	5.4	1.7	1.50	1.16	30.9	1.50
40.60	40.50	22.0	0.86	-0.22	22.0	3.91	4	120	2.29	1.34	14.7	15.1	4.37	3	2.96	17.3	0.00	17.3	3	0.06	1	55.82	0.61	274.1	638.2	760		276	6.57	5.0	1.6	1.41	1.08	30.6	1.41
40.70	40.62	21.3	0.79	-0.22	21.3	3.71	4	119	2.30	1.34	14.1	14.5	4.16	3	2.96	16.7	0.00	16.7	3	0.06	1	55.88	0.61	274.1	626.6	728		266	6.32	4.8	1.7	1.35	1.03	30.4	1.35
40.80	40.75	21.6	0.75	-0.22	21.6	3.47	5	119	2.31	1.35	14.3	14.7	3.89	3	2.94	16.9	0.00	16.9	4	0.06	1	54.43	0.61	274.1	622.4	716		270	6.42	4.9	1.8	1.38	1.05	30.4	1.38
41.00	40.88	21.3	0.71	-0.21	21.3	3.32	5	119	2.31	1.35	14.0	14.4	3.73	3	2.93	16.6	0.00	16.6	4	0.06	1	54.12	0.61	274.1	615.6	698		265	6.32	4.8	1.9	1.35	1.03	30.4	1.35
41.10	41.02	20.2	0.57	-0.21	20.2	2.83	5	117	2.32	1.35	13.2	13.6	3.20	3	2.92	15.7	0.00	15.7	4	0.07	1	52.99	0.62	274.1	590.5	633		242	5.94	4.5	2.2	1.27	0.97	30.1	1.27
41.20	41.16	19.1	0.57	-0.21	19.1	2.99	5	117	2.33	1.36	12.3	12.7	3.42	3	2.96	14.9	0.00	14.9	3	0.07	1	55.52	0.62	274.1	586.8	624		212	5.58	4.2	2.1	1.20	0.90	29.7	1.20
41.40	41.30	19.2	0.56	-0.21	19.2	2.90	5	116	2.34	1.36	12.4	12.7	3.30	3	2.95	14.9	0.00	14.9	4	0.07	1	54.91	0.62	274.1	584.8	619		214	5.61	4.2	2.1	1.20	0.91	29.7	1.20
41.50	41.44	19.1	0.56	-0.20	19.0	2.98	5	117	2.35	1.37	12.2	12.6	3.37	3	2.96	14.8	0.00	14.8	3	0.07	1	55.52	0.62	274.1	585.7	621		210	5.56	4.2	2.1	1.19	0.90	29.7	1.19
41.60	41.57	20.7	0.55	-0.20	20.7	2.67	5	117	2.35	1.37	13.4	13.8	3.02	3	2.89	16.0	0.00	16.0	4	0.06	1	51.66	0.62	274.1	590.7	632		253	6.11	4.6	2.4	1.31	0.99	30.1	1.31
41.80	41.70	19.9	0.53	-0.19	19.9	2.64	5	116	2.36	1.37	12.8	13.2	3.00	3	2.91	15.4	0.00	15.4	4	0.07	1	52.57	0.62	274.1	583.3	614		231	5.85	4.4	2.4	1.25	0.94	29.9	1.25
41.90	41.81	19.1	0.52	-0.19	19.1	2.70	5	116	2.37	1.38	12.2	12.5	3.09	3	2.93	14.7	0.00	14.7	4	0.07	1	54.20	0.62	274.1	578.7	603		209	5.57	4.2	2.3	1.19	0.89	29.7	1.19
42.00	41.95	19.1	0.50	-0.19	19.1	2.62	5	116	2.38	1.38	12.1	12.5	2.99	3	2.93	14.7	0.00	14.7	4	0.07	1	53.77	0.62	274.1	576.0	596		209	5.57	4.2	2.4	1.19	0.89	29.7	1.19
42.10	42.08	19.9	0.50	-0.19	19.9	2.49	5	116	2.38	1.38	12.7	13.1	2.83	3	2.90	15.3	0.00	15.3	4	0.07	1	51.85	0.62	274.1	578.7	602		230	5.84	4.4	2.5	1.25	0.94	29.9	1.25
42.30	42.21	22.5	0.53	-0.19	22.4	2.37	6	117	2.39	1.39	14.5	15.0	2.66	4	2.84	17.2	0.00	17.2	4	0.06	1	48.07	0.61	274.1	594.9	641		281	6.68	5.0	2.7	1.43	1.07	30.5	1.43
42.40	42.34	23.6	0.50	-0.19	23.6	2.10	6	116	2.40	1.39	15.3	15.9	2.34	4	2.78	18.0	0.00	18.0	4	0.06	1	45.10	0.61	274.1	592.5	633		297	7.07	5.3	3.0	1.51	1.14	30.8	1.51
42.50	42.46	21.7	0.48	-0.19	21.7	2.23	6	116	2.41	1.39	13.9	14.4	2.51	4	2.84	16.6	0.00	16.6	4	0.06	1	48.12	0.61	274.1	584.1	614		270	6.43	4.8	2.8	1.38	1.03	30.3	1.38
42.70	42.60	20.4	0.47	-0.19	20.4	2.31	5	115	2.41	1.40	12.9	13.3	2.63	4	2.87	15.5	0.00	15.5	4	0.07	1	50.38	0.62	274.1	577.4	598		240	5.99	4.4	2.7	1.28	0.95	30.0	1.28
42.80	42.74	20.7	0.47	-0.18	20.7	2.26	6	115	2.42	1.40	13.0	13.5	2.56	4	2.86	15.7	0.00	15.7	4	0.07	1	49.72	0.62	274.1	578.0	599		247	6.09	4.5	2.8	1.31	0.97	30.0	1.31
42.90	42.86	21.3	0.52	-0.18	21.3	2.44	5	116	2.43	1.40	13.4	13.9	2.76	4	2.87	16.1	0.00	16.1	4	0.06	1	50.21	0.62	274.1	590.0	629		263	6.28	4.6	2.6	1.35	1.00	30.2	1.35
43.00	42.98	22.0	0.58	-0.17	22.0	2.62	5	117	2.44	1.41	13.9	14.4	2.95	4	2.88	16.6	0.00	16.6	4	0.06	1	50.54	0.61	274.1	602.5	660		273	6.51	4.8	2.4	1.39	1.03	30.3	1.39
43.20	43.13	24.4	0.65	-0.17	24.3	2.67	5	118	2.44	1.41	15.5	16.1	2.97	4	2.84	18.4	0.00	18.4	4	0.05	1	48.29	0.61	274.1	623.2	713		306	7.30	5.4	2.4	1.56	1.15	30.9	1.56
43.30	43.26	29.4	0.78	-0.17	29.4	2.66	6	120	2.45	1.41	19.0	20.0	2.91	4	2.76	22.2	0.00	22.2	4	0.04	1	43.90	0.59	274.0	658.7	810		377	8.97	6.7	2.4	1.92	1.43	31.9	1.92
43.50	43.39	36.8	1.05	-0.16	36.8	2.86	6	123	2.46	1.42	24.2	25.6	3.06	4	2.69	28.0	0.00	28.0	4	0.04	1	40.19	0.57	274.0	712.5	969		481	11.45	8.5	2.3	2.45	1.83	33.1	2.45
43.60	43.52	39.8	1.22	-0.16	39.8	3.05	6	124	2.47	1.42	26.2	27.7	3.26	4	2.69	30.3	0.00	30.3	4	0.03	1	39.70	0.57	274.0	738.1	1,051		522	12.43	9.2	2.2	2.66	1.98	33.5	2.66
43.70	43.65	43.1	1.44	-0.15	43.1	3.34	5	126	2.48	1.43	28.5	30.1	3.54	4	2.68	32.9	0.00	32.9	4	0.03	1	39.52	0.56	274.0	768.4	1,153		568	13.53	10.0	2.0	2.90	2.15	33.9	2.90
43.90	43.78	42.6	1.45	-0.15	42.5	3.41	5	126	2.48	1.43	28.0	29.6	3.63	4	2.69	32.4	0.00	32.4	4	0.03	1	40.16	0.56	274.0	769.1	1,155		561	13.35	9.9	2.0	2.86	2.11	33.8	2.86
44.00	43.92	35.3	1.24	-0.16	35.3	3.51	5	124	2.49	1.44	22.8	24.0	3.77	4	2.77	26.6	0.00	26.6	4	0.04	1	44.43	0.58	274.0	730.8	1,029		459	10.92	8.0	1.9	2.34	1.71	32.8	2.34
44.10	44.05	29.8	1.05	-0.16	29.8	3.50	5	122	2.50	1.44	19.0	19.8	3.83	3	2.84	22.2	0.00	22.2	4	0.04	1	48.23	0.59	274.0	695.7	920		382	9.11	6.6	1.9	1.95	1.42	31.9	1.95
44.20	44.17	28.6	1.01	-0.15	28.6	3.53	5	122	2.51	1.44	18.1	18.9	3.87	3	2.86	21.2	0.00	21.2	4	0.05	1	49.36	0.59	274.0	688.1	897		365	8.70	6.3	1.8	1.86	1.35	31.6	1.86
44.40	44.30	29.2	0.99	-0.14	29.1	3.40	5	122	2.52	1.45	18.4	19.2	3.72	3	2.84	21.6	0.00	21.6	4	0.05	1	48.38	0.59	274.0	688.0	896		373	8.87	6.4	1.9	1.90	1.37	31.7	1.90
44.50	44.43	35.3	1.00	-0.13	35.3	2.84	6	122	2.52	1.45	22.6	23.9	3.06	4	2.72	26.3	0.00	26.3	4	0.04	1	41.45	0.58	274.0	706.0	948		458	10.91	8.0	2.3	2.34	1.70	32.8	2.34
44.60	44.56	34.6	1.05	-0.11	34.6	3.05	5	123	2.53	1.45	22.0	23.2	3.29	4	2.75	25.8	0.00	25.8	4	0.04	1	42.94	0.58	274.0	710.8	964		449	10.68	7.7	2.2	2.29	1.66	32.6	2.29
44.80	44.70	35.0	1.07	-0.10	35.0	3.06	5	123	2.54	1.46	22.2	23.5	3.29	4	2.74	26.0	0.00	26.0	4	0.04	1	42.81	0.58	274.0	713.9	973		454	10.81	7.8	2.2	2.32	1.68	32.7	2.32
44.90	44.83	35.1	0.96	-0.10	35.1	2.72	6	122	2.55	1.46	22.3	23.6	2.94	4	2.71	26.1	0.00	26.1	4	0.04	1	41.09	0.58	274.0	701.3	933		456	10.86	7.9	2.4	2.33	1.69	32.7	2.33
45.00	44.96	29.8	0.77	-0.10	29.8	2.57	6	120	2.56	1.47	18.6	19.6	2.81	4	2.76	21.9	0.00	21.9	4	0.04	1	43.81	0.59	274.0	662.1	817		382	9.09	6.5	2.5	1.95	1.40	31.8	1.95
45.20	45.10	23.9	0.65	-0.10	23.9	2.71	5	118	2.57	1.47	14.5	15.2	3.03	4	2.87	17.5	0.00	17.5	4	0.06	1	50.01	0.61	274.1	626.6	721		299	7.11	5.1	2.3	1.52	1.08	30.6	1.52
45.30	45.22	21.2	0.58	-0.10	21.1	2.74	5	117	2.57	1.47	12.6	13.1	3.12	3	2.92	15.4	0.00	15.4	4	0.06	1	53.52	0.62	274.1	605.8	667		243	6.19	4.4	2.3	1.33	0.94	29.9	1.33
45.40	45.35	19.5	0.59	-0.10	19.5	3.04	5	117	2.58	1.48	11.4	11.8	3.50	3	2.99	14.2	0.00	14.2	3	0.07	1	57.71	0.63	274.1	601.6	658		199	5.63	3.9	2.0	1.21	0.84	29.4	1.21

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Z_b (ft)	Z_m (ft)	q_c (tsf)	f_s (tsf)	u_2 (tsf)	q_t (tsf)	R_f	SBT	γ (pcf)	σ_{v0} (tsf)	σ_{v0}' (tsf)	Q_t	Q_{tn}	F_R	SBT_n	I_c	q_{c1N}	K_c	$Q_{tn,cs}$	$(SBT)_{Ic}$	B_q	$(SBT)_{Bq}$	F_C (%)	c	R	V_s (ft/s)	G_0 (tsf)	E' (tsf)	M (tsf)	σ_p' (tsf)	OCR	S_t	S_u (tsf)	S_u/σ_{v0}'	φ (°)	c' (tsf)
45.60	45.50	19.7	0.67	-0.10	19.6	3.42	5	118	2.59	1.48	11.5	11.9	3.94	3	3.02	14.3	0.00	14.3	3	0.07	1	59.61	0.63	274.1	615.4	694		202	5.68	4.0	1.8	1.22	0.85	29.4	1.22
45.70	45.62	24.1	0.71	-0.10	24.1	2.94	5	119	2.60	1.48	14.5	15.1	3.30	3	2.89	17.5	0.00	17.5	4	0.06	1	51.38	0.61	274.1	637.9	752		301	7.17	5.0	2.2	1.54	1.08	30.6	1.54
45.80	45.74	28.7	0.81	-0.09	28.7	2.84	5	120	2.60	1.49	17.5	18.4	3.12	4	2.81	20.8	0.00	20.8	4	0.05	1	46.59	0.60	274.0	667.7	833		365	8.69	6.1	2.3	1.86	1.32	31.5	1.86
45.90	45.88	30.7	0.99	-0.08	30.7	3.21	5	122	2.61	1.49	18.8	19.8	3.52	4	2.82	22.2	0.00	22.2	4	0.04	1	47.04	0.59	274.0	696.0	918		393	9.35	6.6	2.0	2.00	1.41	31.9	2.00
46.10	46.01	32.6	1.11	-0.08	32.6	3.40	5	123	2.62	1.50	20.0	21.1	3.70	4	2.81	23.7	0.00	23.7	4	0.04	1	46.60	0.59	274.0	716.1	980		420	9.99	7.0	1.9	2.14	1.51	32.2	2.14
46.20	46.14	33.7	1.17	-0.08	33.7	3.47	5	123	2.63	1.50	20.7	21.8	3.77	4	2.80	24.5	0.00	24.5	4	0.04	1	46.23	0.58	274.0	726.3	1,012		435	10.36	7.3	1.9	2.22	1.56	32.3	2.22
46.30	46.28	33.5	1.21	-0.08	33.5	3.62	5	124	2.64	1.50	20.5	21.6	3.93	4	2.82	24.3	0.00	24.3	4	0.04	1	47.11	0.58	274.0	730.9	1,027		432	10.30	7.2	1.8	2.21	1.54	32.3	2.21
46.50	46.42	33.0	1.23	-0.08	32.9	3.72	5	124	2.64	1.51	20.1	21.1	4.05	3	2.83	23.8	0.00	23.8	4	0.04	1	48.03	0.58	274.0	731.0	1,028		424	10.10	7.0	1.8	2.16	1.51	32.2	2.16
46.60	46.55	32.0	1.21	-0.08	32.0	3.79	5	124	2.65	1.51	19.4	20.4	4.13	3	2.85	23.0	0.00	23.0	4	0.04	1	49.05	0.59	274.0	727.6	1,017		411	9.79	6.8	1.7	2.10	1.46	32.0	2.10
46.70	46.67	31.4	1.20	-0.08	31.4	3.82	5	123	2.66	1.52	18.9	19.9	4.18	3	2.86	22.5	0.00	22.5	4	0.04	1	49.72	0.59	274.0	724.7	1,008		402	9.58	6.6	1.7	2.05	1.42	31.9	2.05
46.90	46.79	31.2	1.21	-0.08	31.1	3.88	5	124	2.67	1.52	18.7	19.6	4.25	3	2.87	22.3	0.00	22.3	4	0.04	1	50.21	0.59	274.0	725.3	1,010		399	9.49	6.5	1.7	2.03	1.40	31.8	2.03
47.00	46.92	29.7	1.09	-0.08	29.6	3.68	5	123	2.68	1.52	17.7	18.5	4.05	3	2.88	21.1	0.00	21.1	4	0.05	1	50.58	0.59	274.0	708.4	956		377	8.99	6.2	1.8	1.93	1.32	31.6	1.93
47.10	47.06	27.9	0.93	-0.08	27.9	3.36	5	121	2.68	1.53	16.5	17.3	3.71	3	2.88	19.8	0.00	19.8	4	0.05	1	50.54	0.60	274.1	684.7	884		353	8.40	5.8	1.9	1.80	1.24	31.2	1.80
47.20	47.19	26.2	0.96	-0.08	26.1	3.68	5	121	2.69	1.53	15.3	16.0	4.11	3	2.93	18.5	0.00	18.5	4	0.05	1	53.89	0.60	274.1	683.1	880		328	7.82	5.3	1.7	1.67	1.14	30.8	1.67
47.40	47.31	22.9	0.82	-0.08	22.9	3.61	5	120	2.70	1.54	13.2	13.6	4.06	3	2.98	16.2	0.00	16.2	3	0.06	1	57.06	0.61	274.1	653.8	796		275	6.73	4.5	1.7	1.44	0.97	30.1	1.44
47.50	47.45	28.6	0.69	-0.07	28.6	2.42	6	119	2.71	1.54	16.8	17.8	2.68	4	2.78	20.2	0.00	20.2	4	0.05	1	45.11	0.60	274.1	654.4	792		362	8.62	5.9	2.7	1.85	1.27	31.4	1.85
47.70	47.58	26.5	0.62	-0.07	26.5	2.35	6	118	2.72	1.54	15.4	16.3	2.62	4	2.81	18.6	0.00	18.6	4	0.05	1	46.54	0.60	274.1	637.2	745		333	7.92	5.4	2.7	1.70	1.16	30.9	1.70
47.80	47.72	24.8	0.61	-0.07	24.8	2.47	6	118	2.72	1.55	14.3	15.0	2.77	4	2.85	17.4	0.00	17.4	4	0.06	1	48.99	0.61	274.1	630.2	727		309	7.35	5.0	2.6	1.58	1.07	30.5	1.58
47.90	47.84	23.9	0.59	-0.07	23.9	2.48	6	117	2.73	1.55	13.6	14.3	2.80	4	2.87	16.7	0.00	16.7	4	0.06	1	50.12	0.61	274.1	624.2	711		296	7.04	4.8	2.5	1.51	1.02	30.3	1.51
48.00	47.97	22.2	0.55	-0.07	22.2	2.48	5	117	2.74	1.55	12.5	13.1	2.83	3	2.90	15.6	0.00	15.6	4	0.06	1	52.09	0.62	274.1	611.4	678		256	6.49	4.4	2.5	1.39	0.94	29.9	1.39
48.20	48.11	20.7	0.52	-0.07	20.7	2.54	5	116	2.75	1.56	11.5	12.0	2.93	3	2.94	14.4	0.00	14.4	4	0.07	1	54.60	0.62	274.1	601.3	653		215	5.97	4.0	2.4	1.28	0.86	29.5	1.28
48.30	48.24	20.5	0.53	-0.06	20.5	2.57	5	116	2.75	1.56	11.3	11.8	2.97	3	2.95	14.3	0.00	14.3	4	0.07	1	55.14	0.63	274.1	601.2	653		210	5.91	3.9	2.4	1.27	0.85	29.4	1.27
48.40	48.36	21.4	0.54	-0.06	21.3	2.51	5	116	2.76	1.56	11.9	12.4	2.88	3	2.93	14.9	0.00	14.9	4	0.07	1	53.62	0.62	274.1	606.5	666		231	6.19	4.1	2.5	1.33	0.89	29.6	1.33
48.60	48.50	22.2	0.55	-0.06	22.2	2.49	5	117	2.77	1.57	12.4	13.0	2.85	3	2.91	15.4	0.00	15.4	4	0.07	1	52.53	0.62	274.1	612.9	682		251	6.47	4.3	2.5	1.39	0.93	29.8	1.39
48.70	48.63	22.3	0.56	-0.06	22.3	2.49	5	117	2.78	1.57	12.4	13.0	2.85	3	2.91	15.5	0.00	15.5	4	0.07	1	52.46	0.62	274.1	613.9	684		253	6.50	4.3	2.5	1.39	0.93	29.9	1.39
48.80	48.77	22.0	0.57	-0.05	22.0	2.61	5	117	2.79	1.58	12.2	12.8	2.99	3	2.92	15.3	0.00	15.3	4	0.07	1	53.55	0.62	274.1	616.6	692		246	6.41	4.3	2.4	1.37	0.91	29.8	1.37
49.00	48.91	22.3	0.58	-0.05	22.3	2.61	5	117	2.79	1.58	12.3	12.9	2.99	3	2.92	15.4	0.00	15.4	4	0.07	1	53.33	0.62	274.1	619.1	698		251	6.49	4.3	2.4	1.39	0.92	29.8	1.39
49.10	49.03	23.1	0.57	-0.05	23.0	2.45	6	117	2.80	1.58	12.8	13.5	2.79	3	2.89	15.9	0.00	15.9	4	0.06	1	51.47	0.62	274.1	619.5	698		272	6.75	4.5	2.5	1.45	0.96	30.0	1.45
49.20	49.15	22.9	0.56	-0.05	22.8	2.45	5	117	2.81	1.59	12.6	13.3	2.80	3	2.90	15.7	0.00	15.7	4	0.06	1	51.76	0.62	274.1	618.2	695		266	6.68	4.4	2.5	1.43	0.95	30.0	1.43
49.40	49.28	22.7	0.58	-0.05	22.7	2.55	5	117	2.81	1.59	12.5	13.1	2.91	3	2.91	15.6	0.00	15.6	4	0.06	1	52.61	0.62	274.1	621.2	703		261	6.63	4.4	2.4	1.42	0.94	29.9	1.42
49.50	49.42	23.0	0.69	-0.05	22.9	2.98	5	118	2.82	1.59	12.6	13.2	3.41	3	2.95	15.8	0.00	15.8	4	0.06	1	54.94	0.62	274.1	639.4	753		266	6.71	4.4	2.1	1.44	0.94	29.9	1.44
49.60	49.55	28.2	1.04	-0.04	28.2	3.70	5	122	2.83	1.60	15.9	16.7	4.09	3	2.92	19.3	0.00	19.3	4	0.05	1	52.99	0.60	274.1	704.7	943		356	8.47	5.6	1.7	1.81	1.19	31.0	1.81
49.80	49.69	41.8	1.20	-0.03	41.8	2.88	6	124	2.84	1.60	24.3	26.3	3.09	4	2.70	29.2	0.00	29.2	4	0.03	1	40.20	0.57	274.0	759.2	1,113		546	12.99	8.8	2.3	2.78	1.88	33.2	2.78
49.90	49.82	38.6	1.20	-0.04	38.6	3.12	5	124	2.85	1.61	22.3	23.9	3.37	4	2.75	26.7	0.00	26.7	4	0.04	1	43.13	0.58	274.0	752.1	1,090		500	11.91	8.0	2.1	2.55	1.70	32.8	2.55
50.00	49.94	31.5	0.90	-0.02	31.5	2.86	5	121	2.85	1.61	17.8	19.0	3.15	4	2.81	21.5	0.00	21.5	4	0.04	1	46.35	0.59	274.0	698.7	921		402	9.56	6.3	2.3	2.05	1.36	31.7	2.05

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Z_b (ft)	Z_m (ft)	$C_c/(1+e_0)$(%)	$C_r/(1+e_0)$(%)	μ_{FC}	μ_{LL}	μ_{PI}	K_0	D_R (%)	$N_{60L\&B}$	$(N_{60})_{Ic}$	$(N_1)_{60I\&B}$	C_N	$(N_1)_{60csL\&R}$	$(N_1)_{60csIc}$	$(N_1)_{60csI\&B}$	$(N_1)_{60qc1ncs}$	r_d	MSF	K_σ	K_α	$CSR_{7.5}$	$CRR_{7.5}$	FS	τ_{av}(tsf)	p'(tsf)	γ_{max} (%)	G/G_0	ε_v (%)	ΔS_i	ΣS_i (in)
0.40	0.18	0.31	0.10	13.5	9.7	3.0	0.75	63.6	30.7	7.2	4.0	1.70	61.3	17.5	8.8	23.8	1.00	1.12	1.10	1.00	0.34	0.15		0.01	0.01	0.001	0.88	0.00	0.00	0.21
0.50	0.41	0.28	0.09	0.0	7.1	2.1	1.33	82.5	22.8	20.0	33.8	1.70	38.8	34.0	33.8	34.0	1.00	1.45	1.10	1.00	0.26	1.30		0.01	0.04	0.002	0.88	0.00	0.00	0.21
0.60	0.54	0.74	0.25	8.8	9.0	2.7	1.03	70.8	20.4	12.4	14.7	1.70	37.0	23.1	16.5	25.9	1.00	1.20	1.10	1.00	0.32	0.22		0.02	0.04	0.003	0.82	0.00	0.00	0.21
0.70	0.67	0.85	0.28	15.0	9.9	3.1	0.93	70.3	19.4	10.5	10.1	1.70	37.3	21.4	13.5	25.5	1.00	1.19	1.10	1.00	0.32	0.21		0.02	0.05		0.00		0.00	0.21
0.90	0.79	0.49	0.16	34.0	13.6	4.3	7.96		13.3	5.5	1.0	1.70	32.1	16.3	6.6	9.4	1.00	1.04	1.10	1.00	0.37	1.30		0.02	0.31		0.00		0.00	0.21
1.00	0.93	0.56	0.19	38.2	14.5	4.7	6.93		11.6	5.0	0.5	1.70	28.6	15.2	6.1	8.5	1.00	1.04	1.10	1.00	0.37	1.30		0.03	0.32		0.00		0.00	0.21
1.10	1.08	0.58	0.19	40.3	15.0	4.9	6.69		11.2	4.8	0.5	1.70	27.9	14.8	6.0	8.1	1.00	1.03	1.10	1.00	0.37	1.30		0.03	0.35		0.00		0.00	0.21
1.20	1.20	0.56	0.19	40.6	15.1	4.9	6.90		8.7	4.8	0.5	1.70	22.7	14.8	6.1	8.2	1.00	1.04	1.10	1.00	0.37	1.30		0.03	0.39		0.00		0.00	0.21
1.40	1.32	0.56	0.19	41.5	15.3	5.0	6.90		8.7	4.7	0.5	1.70	22.7	14.6	6.0	8.0	1.00	1.04	1.10	1.00	0.37	1.30		0.04	0.43		0.00		0.00	0.21
1.50	1.45	0.56	0.19	42.2	15.5	5.0	0.56	56.1	8.7	4.6	0.5	1.70	22.4	14.1	6.0	23.5	1.00	1.08	1.10	1.00	0.35	0.12		0.04	0.07		0.00		0.00	0.21
1.70	1.59	0.55	0.18	42.8	15.7	5.1	0.56	55.9	7.1	4.5	0.6	1.70	18.7	13.7	5.9	21.0	1.00	1.08	1.10	1.00	0.35	0.12		0.04	0.07		0.00		0.00	0.21
1.80	1.72	0.56	0.19	43.8	15.9	5.2	0.56	55.3	7.0	4.4	0.5	1.70	18.1	13.0	5.8	18.3	1.00	1.07	1.10	1.00	0.36	0.12		0.05	0.08	0.110	0.12	0.18	0.00	0.21
1.90	1.86	0.59	0.20	45.9	16.5	5.4	0.54	54.2	6.6	4.1	0.4	1.70	17.1	12.3	5.7	16.4	1.00	1.07	1.10	1.00	0.36	0.12		0.05	0.08	0.238	0.07	0.43	0.01	0.20
2.00	1.99	0.68	0.23	49.4	17.5	5.8	0.50	52.8	5.7	3.7	0.4	1.70	15.9	11.9	5.7	16.5	1.00	1.07	1.10	1.00	0.36	0.12		0.05	0.08	0.475	0.04	0.86	0.01	0.19
2.20	2.10	0.72	0.24	51.2	18.0	5.9	0.48	52.3	5.4	3.5	0.4	1.70	15.5	11.7	5.8	16.7	0.99	1.07	1.10	1.00	0.36	0.11		0.05	0.09	0.662	0.03	1.18	0.03	0.16
2.30	2.24	0.77	0.26	53.2	18.6	6.2	0.47	52.0	6.4	3.4	0.3	1.70	17.7	11.8	5.8	18.0	0.99	1.06	1.10	1.00	0.36	0.11		0.06	0.09		0.00		0.00	0.16
2.40	2.37	0.92	0.31	57.7	20.0	6.7	4.18		5.3	3.0	0.3	1.70	15.8	11.2	5.9	5.2	0.99	1.03	1.10	1.00	0.37	1.30		0.06	0.45		0.00		0.00	0.16
2.60	2.50	1.12	0.37	62.3	21.6	7.3	3.45		5.8	2.7	0.2	1.70	16.9	10.5	5.8	4.6	0.99	1.03	1.10	1.00	0.37	1.30		0.06	0.40		0.00		0.00	0.16
2.70	2.64	1.23	0.41	64.4	22.3	7.6	3.22		5.5	2.5	0.2	1.70	16.2	10.1	5.8	4.3	0.99	1.03	1.10	1.00	0.37	1.30		0.07	0.40		0.00		0.00	0.16
2.80	2.77	1.19	0.40	64.6	22.4	7.6	3.27		4.2	2.5	0.2	1.70	13.5	10.1	5.8	4.3	0.99	1.03	1.10	1.00	0.37	1.30		0.07	0.42		0.00		0.00	0.16
3.00	2.89	1.12	0.37	63.9	22.2	7.5	3.45		4.4	2.6	0.2	1.70	14.0	10.3	5.8	4.4	0.99	1.03	1.10	1.00	0.37	1.30		0.07	0.46		0.00		0.00	0.16
3.10	3.02	1.06	0.35	63.2	21.9	7.4	3.65		4.7	2.8	0.3	1.70	14.5	10.6	5.9	4.7	0.99	1.03	1.10	1.00	0.37	1.30		0.08	0.50		0.00		0.00	0.16
3.20	3.16	1.09	0.36	64.2	22.3	7.6	3.56		4.5	2.7	0.2	1.70	14.3	10.5	5.9	4.6	0.99	1.03	1.10	1.00	0.37	1.30		0.08	0.51		0.00		0.00	0.16
3.40	3.29	1.05	0.35	64.1	22.2	7.5	3.67		4.7	2.7	0.3	1.70	14.5	10.6	5.8	4.6	0.99	1.03	1.09	1.00	0.37	1.30		0.08	0.54		0.00		0.00	0.16
3.50	3.43	0.91	0.30	61.4	21.3	7.2	4.23		5.4	3.0	0.3	1.70	16.0	11.1	5.8	5.1	0.99	1.03	1.09	1.00	0.37	1.30		0.08	0.64		0.00		0.00	0.16
3.60	3.56	0.82	0.08	59.5	20.6	6.9	0.45	51.4	6.0	3.2	0.3	1.70	17.1	11.4	5.8	17.2	0.99	1.06	1.10	1.00	0.36	0.11		0.09	0.13		0.00		0.00	0.16
3.80	3.68	0.67	0.22	55.6	19.3	6.5	0.51	53.1	5.8	3.7	0.4	1.70	16.2	12.1	5.8	17.1	0.99	1.07	1.10	1.00	0.35	0.12		0.09	0.14		0.00		0.00	0.16
3.90	3.82	0.51	0.17	50.1	17.7	5.8	0.59	56.1	7.7	4.7	0.8	1.70	18.9	13.2	6.0	17.7	0.99	1.08	1.10	1.00	0.35	0.12		0.09	0.16	0.660	0.04	1.11	0.01	0.15
4.00	3.95	0.42	0.14	45.9	16.5	5.4	0.66	58.2	9.4	5.5	1.9	1.70	21.3	14.0	6.6	17.2	0.99	1.09	1.10	1.00	0.35	0.13		0.10	0.18	0.391	0.07	0.91	0.01	0.14
4.10	4.08	1.04	0.35	43.4	15.8	5.2	0.70	57.9	8.9	5.9	2.8	1.70	19.0	13.5	6.6	15.0	0.99	1.09	1.10	1.00	0.35	0.13		0.10	0.19	0.559	0.05	1.37	0.02	0.12
4.30	4.21	0.42	0.14	46.7	16.7	5.5	0.65	57.0	7.8	5.3	1.9	1.70	17.7	13.1	6.2	14.9	0.99	1.08	1.10	1.00	0.35	0.13		0.10	0.19	0.928	0.03	2.35	0.06	0.07
4.40	4.34	0.55	0.18	53.0	18.5	6.1	0.57	54.8	7.2	4.3	0.6	1.70	17.8	12.4	5.7	15.7	0.99	1.07	1.10	1.00	0.35	0.12		0.10	0.18	1.000	0.03	1.85	0.02	0.05
4.50	4.47	0.61	0.20	55.6	19.4	6.5	0.54	54.0	6.5	4.0	0.4	1.70	17.0	12.3	5.7	16.4	0.99	1.07	1.10	1.00	0.35	0.12		0.11	0.18		0.00		0.00	0.05
4.70	4.61	0.77	0.26	61.2	21.2	7.2	0.47	52.2	6.4	3.4	0.3	1.70	18.0	11.9	5.8	18.9	0.99	1.06	1.10	1.00	0.35	0.11		0.11	0.17		0.00		0.00	0.05
4.80	4.73	0.87	0.29	64.2	22.3	7.6	4.31		5.7	3.2	0.3	1.70	16.6	11.6	5.9	5.5	0.98	1.03	1.08	1.00	0.37	1.30		0.11	0.88		0.00		0.00	0.05
4.90	4.86	0.99	0.33	67.3	23.5	8.0	3.70		6.7	3.0	0.3	1.70	18.7	11.2	5.9	5.2	0.98	1.03	1.07	1.00	0.37	1.30		0.12	0.78		0.00		0.00	0.05
5.10	4.99	1.16	0.39	71.2	25.0	8.6	3.08		8.6	2.4	0.3	1.70	22.6	9.9	5.9	8.6	0.98	1.03	1.07	1.00	0.37	1.30		0.12	0.68		0.00		0.00	0.05
5.20	5.12	1.60	0.53	75.2	26.7	9.3	2.54		7.3	2.2	0.2	1.70	20.0	9.4	5.8	7.5	0.98	1.03	1.07	1.00	0.37	1.30		0.12	0.60		0.00		0.00	0.05
5.30	5.26	1.81	0.60	76.9	27.5	9.6	2.32		6.9	2.1	0.2	1.70	19.1	9.3	5.8	7.1	0.98	1.03	1.07	1.00	0.37	1.30		0.13	0.57		0.00		0.00	0.05
5.50	5.40	1.84	0.61	77.5	27.7	9.6	2.25		6.9	2.1	0.2	1.70	19.0	9.3	5.8	6.9	0.98	1.03	1.07	1.00	0.37	1.28		0.13	0.57		0.00		0.00	0.05
5.60	5.53	1.38	0.46	74.6	26.4	9.2	2.53		7.9	2.3	0.2	1.70	21.1	9.7	5.8	7.3	0.98	1.03	1.07	1.00	0.37	1.30		0.13	0.64		0.00		0.00	0.05
5.70	5.65	0.75	0.25	63.0	21.8	7.4	0.48	52.6	6.6	3.6	0.4	1.70	18.4	12.2	5.9	19.3	0.98	1.07	1.10	1.00	0.35	0.12		0.13	0.21		0.00		0.00	0.05
5.90	5.80	0.62	0.21	59.1	20.5	6.9	0.53	54.1	6.4	4.0	0.4	1.70	17.0	12.4	5.7	17.3	0.98	1.07	1.10	1.00	0.35	0.12		0.14	0.23		0.00		0.00	0.05
6.00	5.92	0.60	0.20	58.7	20.4	6.8	0.54	54.3	6.6	4.1	0.4	1.70	17.3	12.5	5.7	17.2	0.98	1.07	1.10	1.00	0.35	0.12		0.14	0.23	1.000	0.04	1.74	0.02	0.02
6.10	6.04	0.64	0.21	60.3	20.9	7.0	0.52	54.0	7.8	4.0	0.4	1.70	20.0	12.6	5.8	18.7	0.98	1.07	1.10	1.00	0.35	0.12		0.14	0.24		0.00		0.00	0.02
6.20	6.18	1.09	0.36	72.6	25.6	8.8	2.66		6.1	2.6	0.2	1.70	17.5	10.3	5.8	7.5	0.98	1.03	1.06	1.00	0.38	1.30		0.15	0.74		0.00		0.00	0.02
6.40	6.30	1.12	0.37	73.4	25.9	9.0	2.54		9.0	2.6	0.2	1.70	23.3	10.3	5.8	7.4	0.98	1.03	1.06	1.00	0.38	1.30		0.15	0.73		0.00		0.00	0.02
6.50	6.44	0.92	0.31	69.3	24.2	8.3	3.03		7.2	3.0	0.4	1.70	19.7	11.2	5.9	8.5	0.98	1.03	1.06	1.00	0.38	1.30		0.15	0.86		0.00		0.00	0.02
6.60	6.58	0.91	0.30	69.5	24.3	8.3	2.98		7.3	3.1	0.3	1.68	19.7	11.2	5.9	8.4	0.98	1.03	1.06	1.00	0.38	1.30		0.15	0.87		0.00		0.00	0.02
6.80	6.70	1.07	0.36	73.3	25.9	8.9	2.50		9.4	2.8	0.3	1.66	23.8	10.7	5.9	7.5	0.98	1.03	1.06	1.00	0.38	1.30		0.16	0.77		0.00		0.00	0.02
6.90	6.83	1.36	0.45	77.2	27.6	9.6	2.08		8.0	2.6	0.2	1.65	20.9	10.1	5.8	6.7	0.98	1.03	1.06	1.00	0.38	1.19		0.16	0.67		0.00		0.00	0.02
7.00	6.98	1.60	0.53	79.4	28.6	10.0	1.87		7.4	2.5	0.2	1.63	19.5	9.9	5.8	6.3	0.98	1.03	1.05	1.00	0.38	1.30		0.16	0.63		0.00		0.00	0.02
7.20	7.11	1.74	0.58	80.6	29.2	10.2	1.77		7.2	2.5	0.2	1.62	18.9	9.8	5.8	6.1	0.97	1.03	1.05	1.00	0.38	1.30		0.17	0.61		0.00		0.00	0.02
7.30	7.24	1.79	0.60	81.2	29.5	10.3	1.71		7.1	2.4	0.2	1.60	18.6	9.7	5.8	5.9	0.97	1.03	1.05	1.00	0.38	1.30		0.17	0.61		0.00		0.00	0.02
7.40	7.38	1.74	0.58	81.2	29.4	10.3	1.70		7.2	2.5	0.2	1.59	18.6	9.7	5.8	5.8	0.97	1.03	1.05	1.00	0.38	1.30		0.17	0.62		0.00		0.00	0.02
7.50	7.50	1.55	0.52	80.1	28.9	10.1	1.77		7.6	2.6	0.2	1.57	19.3	9.8	5.8	6.0	0.97	1.03	1.05	1.00	0.38	1.30		0.18	0.65		0.00		0.00	0.02
7.70	7.62	1.39	0.46	79.0	28.4	9.9	1.84		8.0	2.7	0.2	1.56	19.9	10.0	5.8	6.1	0.97	1.03	1.05	1.00	0.38	1.30		0.18	0.68		0.00		0.00	0.02
7.80	7.76	1.13	0.38	76.5	27.3	9.5	2.05		9.0	2.9	0.2	1.55	21.7	10.4	5.9	6.6	0.97	1.03	1.05	1.00	0.38	1.17		0.18	0.75		0.00		0.00	0.02
7.90	7.88	0.99	0.33	73.8	26.1	9.0	2.29		10.1	3.2	0.3	1.53	23.7	10.8	5.9	7.1	0.97	1.03	1.05	1.00	0.38	1.30		0.18	0.84		0.00		0.00	0.02
8.10	8.02	0.97	0.32	73.5	25.9	9.0	2.31		10.4	3.3	0.3	1.52	24.0	11.0	5.9	7.2	0.97	1.03	1.05	1.00	0.38	1.30		0.19	0.86		0.00		0.00	0.02
8.20	8.16	0.97	0.32	73.8	26.1	9.0	2.26		10.4	3.3	0.3	1.51	23.8	11.0	5.9	7.2	0.97	1.03	1.05	1.00	0.38	1.29		0.19	0.86		0.00		0.00	0.02
8.40	8.30	0.95	0.32	73.6	26.0	9.0	2.27		10.6	3.4	0.3	1.49	24.0	11.1	5.9	7.2	0.97	1.03	1.04	1.00	0.38	1.30		0.19	0.87		0.00		0.00	0.02
8.50	8.42	0.90	0.30	72.5	25.5	8.8	2.37		11.2	3.5	0.3	1.48	24.9	11.3	5.9	7.4	0.97	1.03	1.04	1.00	0.38	1.30		0.20	0.92		0.00		0.00	0.02
8.60	8.54	0.84	0.28	71.0	24.9	8.6	2.51		12.0	3.7	0.3	1.47	26.2	11.5	5.9	7.7	0.97	1.03	1.04	1.00	0.38	1.30		0.20	0.98		0.00		0.00	0.02
8.80	8.68	0.76	0.25	69.1	24.1	8.3	2.71		13.2	3.9	0.4	1.46	28.1	11.9	6.0	8.1	0.97	1.03	1.04	1.00	0.38	1.30		0.20	1.06		0.00		0.00	0.02
8.90	8.81	0.71	0.24	67.7	23.6	8.1	2.86		14.1	4.2	0.4	1.45	29.5	12.2	6.0	8.5	0.97	1.03	1.04	1.00	0.38	1.30		0.21	1.13		0.00		0.00	0.02
9.00	8.93	0.68	0.23	67.1	23.3	8.0	2.93		14.6	4.3	0.4	1.44	30.2	12.4	6.0	8.6	0.97	1.03	1.04	1.00	0.38	1.30		0.21	1.17		0.00		0.00	0.02
9.10	9.06	0.66	0.22	66.3	23.1	7.9	3.00		15.2	4.5	0.5	1.43	31.0	12.7	6.1	8.8	0.97	1.03	1.04	1.00	0.38	1.30		0.21	1.21		0.00		0.00	0.02
9.30	9.19	0.63	0.21	65.4	22.7	7.7	3.10		15.9	4.7	0.6	1.42	32.1	12.9	6.2	9.1	0.97	1.03	1.04	1.00	0.38	1.30		0.21	1.26		0.00		0.00	0.02

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Z_b (ft)	Z_m (ft)	$C_c/(1+e_0)$(%)	$C_r/(1+e_0)$(%)	μ_{FC}	μ_{LL}	μ_{PI}	K_0	D_R (%)	$N_{60L\&B}$	$(N_{60})_{Ic}$	$(N_1)_{60I\&B}$	C_N	$(N_1)_{60csL\&R}$	$(N_1)_{60csIc}$	$(N_1)_{60csI\&B}$	$(N_1)_{60qcIncs}$	r_d	MSF	K_σ	K_α	$CSR_{7.5}$	$CRR_{7.5}$	FS	τ_{av}(tsf)	p'(tsf)	γ_{max} (%)	G/G_0	ε_v (%)	ΔS_i	ΣS_i (in)
9.40	9.33	0.61	0.20	65.0	22.6	7.7	3.15		16.4	4.8	0.6	1.41	32.7	13.1	6.2	9.2	0.96	1.03	1.04	1.00	0.38	1.30		0.22	1.30		0.00		0.00	0.02
9.50	9.46	0.60	0.20	64.8	22.5	7.6	3.15		16.6	4.9	0.6	1.40	32.9	13.2	6.2	9.3	0.96	1.03	1.04	1.00	0.38	1.30		0.22	1.32		0.00		0.00	0.02
9.60	9.59	0.60	0.20	64.8	22.5	7.6	3.13		16.7	4.9	0.6	1.39	32.9	13.2	6.2	9.2	0.96	1.03	1.04	1.00	0.38	1.30		0.22	1.33		0.00		0.00	0.02
9.80	9.72	0.61	0.20	65.6	22.8	7.8	3.01		16.4	4.9	0.5	1.38	32.1	13.1	6.1	9.0	0.96	1.03	1.04	1.00	0.38	1.30		0.23	1.30		0.00		0.00	0.02
9.90	9.87	0.64	0.21	66.7	23.2	7.9	2.84		15.7	4.8	0.4	1.37	30.8	12.9	6.0	8.7	0.96	1.03	1.04	1.00	0.38	1.30		0.23	1.26		0.00		0.00	0.02
10.00	9.97	0.67	0.22	68.1	23.7	8.1	2.67		15.0	4.7	0.4	1.36	29.5	12.7	6.0	8.4	0.96	1.03	1.04	1.00	0.38	1.30		0.23	1.21		0.00		0.00	0.02
10.10	10.06	0.69	0.23	68.8	24.0	8.2	2.58		14.6	4.6	0.4	1.36	28.7	12.5	6.0	8.2	0.96	1.03	1.04	1.00	0.38	1.30	2.00	0.23	1.18				0.00	0.02
10.30	10.18	0.70	0.23	69.1	24.1	8.3	2.55		14.5	4.6	0.4	1.35	28.5	12.5	6.0	8.1	0.96	1.03	1.04	1.00	0.38	1.30	2.00	0.24	1.18				0.00	0.02
10.40	10.32	0.70	0.23	69.2	24.2	8.3	2.53		14.5	4.6	0.4	1.35	28.4	12.4	6.0	7.9	0.96	1.03	1.03	1.00	0.38	1.30	2.00	0.24	1.18				0.00	0.02
10.50	10.46	0.71	0.24	69.2	24.2	8.3	2.52		14.5	4.5	0.4	1.34	28.4	12.3	6.0	7.8	0.96	1.03	1.03	1.00	0.39	1.30	2.00	0.24	1.18				0.00	0.02
10.70	10.60	0.71	0.24	69.3	24.2	8.3	2.50		14.5	4.5	0.4	1.34	28.3	12.2	6.0	7.7	0.96	1.03	1.03	1.00	0.39	1.30	2.00	0.25	1.18				0.00	0.02
10.80	10.72	0.73	0.24	69.8	24.4	8.4	2.44		14.3	4.4	0.4	1.33	27.9	12.1	6.0	7.6	0.96	1.03	1.03	1.00	0.39	1.30	2.00	0.25	1.17				0.00	0.02
10.90	10.83	0.75	0.25	70.6	24.7	8.5	2.36		13.9	4.4	0.3	1.33	27.2	12.0	6.0	7.4	0.96	1.03	1.03	1.00	0.39	1.30	2.00	0.25	1.14				0.00	0.02
11.00	10.96	0.77	0.26	71.2	25.0	8.6	2.29		13.6	4.3	0.3	1.33	26.6	11.8	5.9	7.2	0.96	1.03	1.03	1.00	0.40	1.30	2.00	0.25	1.12				0.00	0.02
11.20	11.10	0.78	0.26	71.5	25.1	8.6	2.25		13.5	4.3	0.3	1.32	26.4	11.8	5.9	7.2	0.96	1.03	1.03	1.00	0.40	1.29	2.00	0.26	1.11				0.00	0.02
11.30	11.24	0.78	0.26	71.4	25.1	8.6	2.26		13.6	4.3	0.3	1.32	26.5	11.8	5.9	7.2	0.96	1.03	1.03	1.00	0.40	1.29	2.00	0.26	1.12				0.00	0.02
11.40	11.36	0.79	0.26	71.6	25.2	8.7	2.23		13.5	4.3	0.3	1.31	26.3	11.8	5.9	7.1	0.96	1.03	1.03	1.00	0.40	1.27	2.00	0.26	1.11				0.00	0.02
11.60	11.49	0.81	0.27	72.4	25.5	8.8	2.15		13.2	4.2	0.3	1.31	25.7	11.6	5.9	6.9	0.95	1.03	1.03	1.00	0.41	1.23	2.00	0.27	1.09				0.00	0.02
11.70	11.62	0.87	0.29	74.1	26.2	9.1	1.99		12.3	4.0	0.3	1.31	24.3	11.3	5.9	6.5	0.95	1.03	1.03	1.00	0.41	1.14	2.00	0.27	1.03				0.00	0.02
11.80	11.75	0.92	0.31	75.4	26.8	9.3	1.89		11.7	3.9	0.3	1.30	23.4	11.1	5.9	6.3	0.95	1.03	1.03	1.00	0.41	1.30		0.27	0.99				0.00	0.02
12.00	11.89	0.93	0.31	75.5	26.8	9.3	1.87		11.7	3.9	0.3	1.30	23.3	11.1	5.9	6.2	0.95	1.03	1.03	1.00	0.41	1.30		0.28	0.99				0.00	0.02
12.10	12.02	0.92	0.31	75.3	26.7	9.3	1.88		11.9	3.9	0.3	1.30	23.5	11.1	5.9	6.2	0.95	1.03	1.03	1.00	0.41	1.30		0.28	1.00				0.00	0.02
12.20	12.15	0.91	0.30	75.0	26.6	9.2	1.90		12.1	3.9	0.3	1.29	23.7	11.1	5.9	6.2	0.95	1.03	1.03	1.00	0.42	1.09	2.00	0.28	1.02				0.00	0.02
12.40	12.29	0.92	0.31	75.2	26.7	9.3	1.88		12.0	3.9	0.3	1.29	23.6	11.0	5.9	6.1	0.95	1.03	1.03	1.00	0.42	1.08	2.00	0.28	1.01				0.00	0.02
12.50	12.43	0.92	0.31	75.0	26.6	9.2	1.89		12.2	3.9	0.3	1.28	23.7	11.0	5.9	6.1	0.95	1.03	1.03	1.00	0.42	1.08	2.00	0.29	1.02				0.00	0.02
12.60	12.56	0.88	0.29	73.9	26.1	9.0	1.98		12.8	4.0	0.3	1.28	24.6	11.1	5.9	6.2	0.95	1.03	1.03	1.00	0.42	1.13	2.00	0.29	1.07				0.00	0.02
12.70	12.67	0.83	0.28	72.2	25.4	8.8	2.13		9.1	4.1	0.3	1.28	19.0	11.3	5.9	6.4	0.95	1.03	1.03	1.00	0.42	1.22	2.00	0.29	1.14				0.00	0.02
12.90	12.80	0.79	0.26	70.8	24.8	8.5	2.26		9.7	4.3	0.3	1.27	19.9	11.5	5.9	6.6	0.95	1.03	1.03	1.00	0.43	1.29	2.00	0.30	1.20				0.00	0.02
13.00	12.93	0.52	0.17	60.4	20.9	7.1	0.44	56.9	11.2	5.9	0.5	1.27	21.6	13.7	6.0	22.3	0.95	1.08	1.05	1.00	0.40	0.13	2.00	0.30	0.41				0.00	0.02
13.10	13.07	0.48	0.16	58.1	20.2	6.8	0.47	58.0	12.4	6.4	0.8	1.27	22.8	14.0	6.2	21.9	0.95	1.09	1.05	1.00	0.40	0.13	0.32	0.30	0.42	36.112		2.06	0.02	0.00
13.30	13.21	0.75	0.25	69.5	24.3	8.3	2.37		10.4	4.6	0.4	1.26	20.7	11.9	6.0	6.9	0.95	1.03	1.03	1.00	0.43	1.30	2.00	0.30	1.27				0.00	0.00
13.40	13.33	0.72	0.24	68.3	23.8	8.2	2.48		10.9	4.8	0.4	1.26	21.5	12.2	6.0	7.3	0.95	1.03	1.03	1.00	0.43	1.30	2.00	0.31	1.32				0.00	0.00
13.50	13.46	0.71	0.24	68.2	23.8	8.1	2.50		11.0	4.8	0.4	1.26	21.6	12.3	6.0	7.3	0.94	1.03	1.03	1.00	0.43	1.30	2.00	0.31	1.34				0.00	0.00
13.70	13.61	0.77	0.26	70.3	24.6	8.5	2.27		15.2	4.6	0.3	1.25	27.8	11.9	6.0	6.9	0.94	1.03	1.03	1.00	0.44	1.30	2.00	0.31	1.24				0.00	0.00
13.80	13.73	0.81	0.27	71.6	25.2	8.7	2.14		14.4	4.5	0.3	1.25	26.7	11.7	5.9	6.6	0.94	1.03	1.03	1.00	0.44	1.23	2.00	0.32	1.19				0.00	0.00
13.90	13.85	0.86	0.29	72.9	25.7	8.9	2.03		13.8	4.3	0.3	1.25	25.6	11.5	5.9	6.4	0.94	1.03	1.02	1.00	0.44	1.16	2.00	0.32	1.15				0.00	0.00
14.10	14.00	0.87	0.29	73.2	25.8	8.9	2.00		13.7	4.3	0.3	1.24	25.4	11.4	5.9	6.3	0.94	1.03	1.02	1.00	0.44	1.14	2.00	0.32	1.14				0.00	0.00
14.20	14.12	0.87	0.29	73.1	25.8	8.9	2.00		13.8	4.4	0.3	1.24	25.5	11.5	5.9	6.3	0.94	1.03	1.02	1.00	0.44	1.14	2.00	0.32	1.15				0.00	0.00
14.30	14.25	0.86	0.29	72.7	25.6	8.8	2.03		14.0	4.4	0.3	1.24	25.8	11.5	5.9	6.4	0.94	1.03	1.02	1.00	0.45	1.16	2.00	0.33	1.16				0.00	0.00
14.50	14.39	0.85	0.28	72.6	25.6	8.8	2.03		14.1	4.4	0.3	1.23	25.9	11.6	5.9	6.4	0.94	1.03	1.02	1.00	0.45	1.16	2.00	0.33	1.17				0.00	0.00
14.60	14.53	0.86	0.29	72.6	25.6	8.8	2.03		14.2	4.4	0.3	1.23	25.9	11.5	5.9	6.3	0.94	1.03	1.02	1.00	0.45	1.16	2.00	0.33	1.18				0.00	0.00
14.70	14.66	0.86	0.29	72.7	25.6	8.8	2.02		14.2	4.4	0.3	1.23	25.9	11.5	5.9	6.3	0.94	1.03	1.02	1.00	0.45	1.15	2.00	0.34	1.18				0.00	0.00
14.80	14.77	0.86	0.29	72.8	25.6	8.8	2.01		14.2	4.4	0.3	1.22	25.8	11.5	5.9	6.2	0.94	1.03	1.02	1.00	0.45	1.15	2.00	0.34	1.18				0.00	0.00
15.00	14.90	0.89	0.30	73.5	26.0	9.0	1.94		13.8	4.3	0.3	1.22	25.2	11.3	5.9	6.1	0.94	1.03	1.02	1.00	0.45	1.11	2.00	0.34	1.15				0.00	0.00
15.10	15.04	0.93	0.31	74.4	26.4	9.1	1.86		13.3	4.2	0.3	1.22	24.5	11.1	5.9	5.9	0.94	1.03	1.02	1.00	0.46	1.07	2.00	0.34	1.12				0.00	0.00
15.20	15.17	0.98	0.33	75.7	26.9	9.3	1.77		12.7	4.1	0.3	1.22	23.6	10.9	5.9	5.6	0.94	1.03	1.02	1.00	0.46	1.01	2.00	0.35	1.08				0.00	0.00
15.40	15.31	0.99	0.33	75.9	27.0	9.4	1.74		12.7	4.1	0.3	1.21	23.4	10.9	5.9	5.6	0.93	1.03	1.02	1.00	0.46	1.00	2.00	0.35	1.08				0.00	0.00
15.50	15.43	0.96	0.32	75.1	26.7	9.2	1.80		13.1	4.2	0.3	1.21	24.0	11.0	5.9	5.7	0.93	1.03	1.02	1.00	0.46	1.03	2.00	0.35	1.11				0.00	0.00
15.60	15.56	0.95	0.32	74.8	26.5	9.2	1.82		8.9	4.2	0.3	1.21	17.9	11.0	5.9	5.7	0.93	1.03	1.02	1.00	0.46	1.04	2.00	0.35	1.13				0.00	0.00
15.70	15.69	0.95	0.32	74.8	26.5	9.2	1.81		8.9	4.2	0.3	1.20	17.9	11.0	5.9	5.7	0.93	1.03	1.02	1.00	0.46	1.04	2.00	0.36	1.13				0.00	0.00
15.90	15.82	0.95	0.32	74.9	26.6	9.2	1.80		8.9	4.2	0.3	1.20	17.8	11.0	5.9	5.7	0.93	1.03	1.02	1.00	0.46	1.03	2.00	0.36	1.13				0.00	0.00
16.00	15.95	0.98	0.33	75.6	26.9	9.3	1.75		13.0	4.1	0.3	1.20	23.7	11.0	5.9	5.6	0.93	1.03	1.02	1.00	0.47	1.00	2.00	0.36	1.11				0.00	0.00
16.20	16.10	0.97	0.32	75.3	26.8	9.3	1.77		13.2	4.2	0.3	1.19	23.9	11.1	5.9	5.6	0.93	1.03	1.02	1.00	0.47	1.01	2.00	0.37	1.12				0.00	0.00
16.30	16.23	0.92	0.31	74.1	26.2	9.1	1.86		9.3	4.4	0.3	1.19	18.3	11.2	5.9	5.8	0.93	1.03	1.02	1.00	0.47	1.06	2.00	0.37	1.17				0.00	0.00
16.40	16.34	0.97	0.32	75.2	26.7	9.3	1.77		8.9	4.2	0.3	1.19	17.7	11.0	5.9	5.5	0.93	1.03	1.02	1.00	0.47	1.01	2.00	0.37	1.13				0.00	0.00
16.60	16.48	1.04	0.35	76.9	27.5	9.6	1.64		8.3	4.0	0.3	1.19	16.9	10.7	5.9	5.3	0.93	1.03	1.02	1.00	0.47	0.94	1.99	0.37	1.07				0.00	0.00
16.70	16.61	1.07	0.36	77.5	27.7	9.7	1.60		8.2	4.0	0.3	1.18	16.6	10.6	5.9	5.1	0.93	1.03	1.02	1.00	0.47	0.92	1.94	0.38	1.06				0.00	0.00
16.80	16.74	1.10	0.37	78.2	28.1	9.8	1.55		8.0	3.9	0.2	1.18	16.3	10.5	5.9	5.0	0.93	1.03	1.02	1.00	0.47	0.88	1.87	0.38	1.04				0.00	0.00
17.00	16.89	1.25	0.42	80.6	29.2	10.2	1.40		11.0	3.7	0.2	1.18	20.5	10.2	5.8	4.6	0.93	1.03	1.02	1.00	0.48	1.30		0.38	0.96				0.00	0.00
17.10	17.01	1.41	0.47	82.0	29.8	10.5	1.32		10.4	3.5	0.2	1.18	19.7	9.9	5.8	4.4	0.93	1.03	1.02	1.00	0.48	1.30		0.38	0.93				0.00	0.00
17.20	17.14	1.61	0.54	83.6	30.6	10.8	1.23		9.8	3.4	0.2	1.17	18.8	9.7	5.8	4.2	0.93	1.03	1.02	1.00	0.48	1.30		0.39	0.89				0.00	0.00
17.30	17.27	1.78	0.59	84.7	31.2	11.0	1.17		9.4	3.3	0.2	1.17	18.2	9.6	5.8	4.0	0.92	1.03	1.02	1.00	0.48	1.30		0.39	0.86				0.00	0.00
17.50	17.41	1.86	0.62	85.3	31.5	11.1	1.14		9.3	3.2	0.2	1.17	18.0	9.5	5.8	3.9	0.92	1.03	1.02	1.00	0.48	1.30		0.39	0.85				0.00	0.00
17.60	17.54	1.94	0.65	85.7	31.7	11.2	1.12		6.1	3.1	0.2	1.17	13.5	9.4	5.8	3.8	0.92	1.03	1.02	1.00	0.48	1.30		0.39	0.84				0.00	0.00
17.70	17.68	2.17	0.72	87.0	32.4	11.5	1.05		8.7	3.0	0.2	1.16	17.2	9.3	5.8	3.7	0.92	1.03	1.02	1.00	0.48	1.30		0.40	0.81				0.00	0.00
17.90	17.81	2.40	0.80	88.3	33.1	11.8	1.00		8.3	3.0	0.2	1.16	16.6	9.1	5.8	3.5	0.92	1.03	1.02	1.00	0.48	1.30		0.40	0.78				0.00	0.00
18.00	17.93	2.54	0.85	88.9	33.4	11.9	0.97		8.2	2.9	0.2	1.16	16.4	9.1	5.8	3.4	0.92	1.03	1.02	1.00	0.49	1.30		0.40	0.77				0.00	0.00
18.10	18.06	2.63	0.88	89.3	33.7	12.0	0.95		8.1	2.9	0.2	1.16	16.2	9.0	5.8	3.4	0.92	1.03	1.02	1.00	0.49	1.30		0.40	0.77				0.00	0.00
18.30	18.20	2.68	0.89	89.6	33.8	12.1	0.94		8.0	2.9	0.2	1.15	16.1	9.0	5.7	3.4	0.92	1.03	1.02	1.00	0.49	1.30		0.41	0.76				0.00	0.00

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Z_b (ft)	Z_m (ft)	$C_c/(1+e_0)$(%)	$C_r/(1+e_0)$(%)	μ_{FC}	μ_{LL}	μ_{PI}	K_0	D_R (%)	$N_{60L\&B}$	$(N_{60})_{Ic}$	$(N_1)_{60I\&B}$	C_N	$(N_1)_{60csL\&R}$	$(N_1)_{60csIc}$	$(N_1)_{60csI\&B}$	$(N_1)_{60qcIncs}$	r_d	MSF	K_σ	K_α	$CSR_{7.5}$	$CRR_{7.5}$	FS	τ_{av}(tsf)	p'(tsf)	γ_{max} (%)	G/G_0	ε_v (%)	ΔS_i	ΣS_i (in)
18.40	18.34	2.77	0.92	90.0	34.0	12.1	0.93		7.9	2.9	0.2	1.15	16.0	9.0	5.7	3.4	0.92	1.03	1.02	1.00	0.49	1.30		0.41	0.76				0.00	0.00
18.50	18.46	2.94	0.98	90.7	34.4	12.3	0.90		7.7	2.9	0.2	1.15	15.7	9.0	5.7	3.3	0.92	1.03	1.02	1.00	0.49	1.30		0.41	0.75				0.00	0.00
18.70	18.59	3.17	1.06	91.6	34.9	12.5	0.86		7.5	2.8	0.1	1.15	15.4	8.9	5.7	3.2	0.92	1.03	1.02	1.00	0.49	1.30		0.41	0.73				0.00	0.00
18.80	18.72	3.57	1.19	93.0	35.8	12.8	0.81		7.2	2.8	0.1	1.15	14.8	8.8	5.7	3.1	0.92	1.03	1.02	1.00	0.49	1.30		0.42	0.70				0.00	0.00
18.90	18.84	3.82	1.27	93.8	36.2	13.0	0.78		7.0	2.7	0.1	1.14	14.6	8.7	5.7	3.0	0.92	1.03	1.01	1.00	0.49	1.30		0.42	0.69				0.00	0.00
19.10	18.98	3.86	1.29	93.9	36.3	13.1	0.78		7.0	2.7	0.1	1.14	14.6	8.7	5.7	3.0	0.91	1.03	1.01	1.00	0.49	1.30		0.42	0.69				0.00	0.00
19.20	19.11	3.95	1.32	94.2	36.5	13.1	0.77		6.9	2.7	0.1	1.14	14.5	8.7	5.7	3.0	0.91	1.03	1.01	1.00	0.50	1.30		0.42	0.69				0.00	0.00
19.30	19.24	4.74	1.58	96.4	37.8	13.7	0.70		6.4	2.5	0.1	1.14	13.8	8.5	5.7	2.8	0.91	1.03	1.01	1.00	0.50	1.30		0.43	0.65				0.00	0.00
19.40	19.38	6.23	2.08	99.7	39.9	14.5	0.61		5.7	2.4	0.1	1.13	12.8	8.3	5.7	2.5	0.91	1.03	1.01	1.00	0.50	1.30		0.43	0.61				0.00	0.00
19.60	19.50	8.06	2.69	100.0	42.0	15.4	0.53		5.2	2.3	0.1	1.13	12.0	8.1	5.6	2.3	0.91	1.03	1.01	1.00	0.50	1.30		0.43	0.57				0.00	0.00
19.70	19.63	9.33	3.11	100.0	43.2	15.9	0.50		4.9	2.2	0.1	1.13	11.7	7.9	5.6	2.2	0.91	1.03	1.01	1.00	0.50	1.30		0.43	0.55				0.00	0.00
19.80	19.77	9.88	3.29	100.0	43.6	16.0	0.48		4.8	2.1	0.1	1.13	11.5	7.9	5.6	2.1	0.91	1.03	1.01	1.00	0.50	1.30		0.44	0.54				0.00	0.00
20.00	19.90	10.21	3.40	100.0	43.9	16.2	0.47		4.8	2.1	0.1	1.13	11.5	7.8	5.6	2.1	0.91	1.03	1.01	1.00	0.50	1.30		0.44	0.54				0.00	0.00
20.10	20.02	10.30	3.43	100.0	44.0	16.2	0.47		4.8	2.1	0.1	1.13	11.4	7.8	5.6	2.0	0.91	1.03	1.01	1.00	0.50	1.30		0.44	0.54				0.00	0.00
20.20	20.15	10.67	3.56	100.0	44.2	16.3	0.46		4.7	2.1	0.1	1.12	11.4	7.8	5.6	2.0	0.91	1.03	1.01	1.00	0.50	1.30		0.44	0.54				0.00	0.00
20.30	20.28	11.06	3.69	100.0	44.5	16.4	0.46		4.7	2.1	0.1	1.12	11.3	7.8	5.6	2.0	0.91	1.03	1.01	1.00	0.50	1.30		0.44	0.54				0.00	0.00
20.50	20.42	10.61	3.54	100.0	44.2	16.3	0.47		4.8	2.1	0.1	1.12	11.4	7.8	5.6	2.0	0.91	1.03	1.01	1.00	0.51	1.30		0.45	0.54				0.00	0.00
20.60	20.55	10.21	3.40	100.0	43.8	16.1	0.47		4.9	2.1	0.1	1.12	11.5	7.8	5.6	2.0	0.91	1.03	1.01	1.00	0.51	1.30		0.45	0.55				0.00	0.00
20.70	20.68	7.01	2.34	100.0	40.6	14.8	0.58		5.7	2.3	0.1	1.12	12.6	8.1	5.7	2.3	0.90	1.03	1.01	1.00	0.51	1.30		0.45	0.61				0.00	0.00
20.90	20.81	3.65	1.22	92.7	35.6	12.8	0.81		5.0	2.7	0.1	1.11	11.7	8.6	5.7	2.9	0.90	1.03	1.01	1.00	0.51	1.30		0.45	0.74				0.00	0.00
21.00	20.95	1.85	0.62	84.3	31.0	10.9	1.15		5.2	3.2	0.2	1.11	11.9	9.3	5.8	3.6	0.90	1.03	1.01	1.00	0.51	0.66	1.29	0.46	0.94				0.00	0.00
21.20	21.09	1.42	0.47	81.0	29.4	10.3	1.31		5.9	3.6	0.2	1.11	12.8	9.8	5.8	4.0	0.90	1.03	1.01	1.00	0.51	0.75	1.47	0.46	1.04				0.00	0.00
21.30	21.21	1.00	0.33	74.7	26.5	9.2	1.71		7.5	4.3	0.3	1.11	15.0	10.7	5.9	4.9	0.90	1.03	1.01	1.00	0.51	0.98	2.00	0.46	1.27				0.00	0.00
21.40	21.34	0.74	0.07	67.5	23.5	8.0	0.34	52.7	8.0	5.2	0.4	1.11	15.2	11.6	5.8	16.9	0.90	1.07	1.02	1.00	0.49	0.12	2.00	0.46	0.48				0.00	0.00
21.60	21.49	0.93	0.09	72.9	25.7	8.9	0.29	50.6	8.1	4.4	0.3	1.10	15.6	10.7	5.8	16.3	0.90	1.06	1.02	1.00	0.50	0.11	2.00	0.47	0.46				0.00	0.00
21.70	21.61	4.12	1.37	94.0	36.4	13.1	0.76		4.9	2.7	0.1	1.10	11.5	8.5	5.7	2.7	0.90	1.03	1.01	1.00	0.51	1.30	2.00	0.47	0.73				0.00	0.00
21.80	21.73	4.91	1.64	96.1	37.7	13.6	0.69		4.6	2.5	0.1	1.10	11.0	8.3	5.7	2.5	0.90	1.03	1.01	1.00	0.51	1.30	2.00	0.47	0.69				0.00	0.00
21.90	21.86	3.62	1.21	92.3	35.4	12.7	0.81		3.9	2.7	0.1	1.10	10.2	8.6	5.7	2.8	0.90	1.03	1.01	1.00	0.52	1.30		0.47	0.77				0.00	0.00
22.10	21.99	2.28	0.76	86.6	32.2	11.4	1.03		4.8	3.1	0.2	1.10	11.4	9.0	5.8	3.2	0.90	1.03	1.01	1.00	0.52	0.59	1.14	0.47	0.90				0.00	0.00
22.20	22.13	1.69	0.56	82.9	30.3	10.7	1.20		5.6	3.4	0.2	1.09	12.3	9.4	5.8	3.6	0.90	1.03	1.01	1.00	0.52	0.69	1.33	0.48	1.00				0.00	0.00
22.30	22.26	1.37	0.46	80.4	29.1	10.2	1.33		6.1	3.7	0.2	1.09	13.1	9.8	5.8	4.0	0.90	1.03	1.01	1.00	0.52	0.76	1.47	0.48	1.08				0.00	0.00
22.40	22.38	1.10	0.37	77.0	27.5	9.6	1.53		5.6	4.1	0.3	1.09	12.3	10.3	5.8	4.4	0.89	1.03	1.01	1.00	0.52	0.88	1.69	0.48	1.21				0.00	0.00
22.60	22.52	1.02	0.34	75.0	26.6	9.2	1.66		6.1	4.4	0.3	1.09	12.9	10.7	5.9	4.8	0.89	1.03	1.01	1.00	0.52	0.95	1.83	0.48	1.29				0.00	0.00
22.70	22.64	1.03	0.34	75.3	26.8	9.3	1.64		7.5	4.4	0.3	1.09	14.8	10.7	5.9	4.8	0.89	1.03	1.01	1.00	0.52	0.94	1.81	0.49	1.28				0.00	0.00
22.80	22.78	1.05	0.35	75.9	27.0	9.4	1.60		7.4	4.4	0.3	1.09	14.6	10.7	5.9	4.7	0.89	1.03	1.01	1.00	0.52	0.92	1.76	0.49	1.26				0.00	0.00
23.00	22.92	1.12	0.37	77.4	27.7	9.6	1.50		7.0	4.2	0.3	1.08	14.1	10.5	5.9	4.5	0.89	1.03	1.01	1.00	0.52	0.86	1.64	0.49	1.20				0.00	0.00
23.10	23.05	1.28	0.43	79.7	28.7	10.0	1.36		6.4	4.1	0.2	1.08	13.3	10.4	5.8	4.4	0.89	1.03	1.01	1.00	0.52	0.78	1.49	0.49	1.12				0.00	0.00
23.20	23.18	1.25	0.42	79.4	28.6	10.0	1.38		8.7	4.3	0.2	1.08	16.2	10.6	5.8	4.6	0.89	1.03	1.01	1.00	0.52	1.30		0.49	1.14				0.00	0.00
23.40	23.30	1.22	0.41	79.0	28.4	9.9	1.40		8.8	4.3	0.2	1.08	16.4	10.6	5.8	4.5	0.89	1.03	1.01	1.00	0.52	0.80	2.00	0.50	1.15				0.00	0.00
23.50	23.44	0.73	0.07	66.8	23.2	7.9	0.33	53.2	8.5	5.7	0.4	1.08	15.8	12.1	5.9	18.9	0.89	1.07	1.01	1.00	0.50	0.12	2.00	0.50	0.51				0.00	0.00
23.60	23.57	0.78	0.08	68.3	23.8	8.2	0.32	52.6	10.1	5.4	0.4	1.07	18.0	12.0	5.9	19.1	0.89	1.07	1.01	1.00	0.51	0.12	2.00	0.50	0.50				0.00	0.00
23.80	23.69	1.85	0.62	84.0	30.8	10.9	1.13		7.4	3.7	0.2	1.07	14.5	9.8	5.8	3.8	0.89	1.03	1.01	1.00	0.52	1.30	2.00	0.50	1.00				0.00	0.00
23.90	23.82	1.08	0.36	76.3	27.2	9.5	1.55		7.4	4.3	0.3	1.07	14.5	10.5	5.9	4.5	0.89	1.03	1.01	1.00	0.53	0.89	1.69	0.51	1.27				0.00	0.00
24.00	23.97	1.00	0.33	74.4	26.4	9.1	1.68		8.0	4.5	0.3	1.07	15.2	10.8	5.8	4.7	0.89	1.03	1.01	1.00	0.53	0.96	1.83	0.51	1.35				0.00	0.00
24.20	24.11	2.40	0.80	87.1	32.4	11.5	0.99		6.6	3.4	0.2	1.07	13.5	9.3	5.8	3.4	0.88	1.03	1.01	1.00	0.53	1.30		0.51	0.93				0.00	0.00
24.30	24.23	1.87	0.62	84.0	30.8	10.9	1.12		5.6	3.6	0.2	1.06	12.1	9.6	5.8	3.6	0.88	1.03	1.01	1.00	0.53	0.64	1.22	0.51	1.01				0.00	0.00
24.40	24.36	1.74	0.58	83.1	30.4	10.7	1.17		5.8	3.6	0.2	1.06	12.4	9.6	5.8	3.6	0.88	1.03	1.01	1.00	0.53	0.67	1.26	0.52	1.04				0.00	0.00
24.60	24.51	1.93	0.64	84.2	31.0	10.9	1.11		5.6	3.5	0.2	1.06	12.1	9.4	5.8	3.5	0.88	1.03	1.01	1.00	0.53	0.63	1.20	0.52	1.01				0.00	0.00
24.70	24.63	1.98	0.66	84.6	31.1	11.0	1.09		5.5	3.4	0.2	1.06	12.0	9.3	5.8	3.4	0.88	1.03	1.01	1.00	0.53	0.63	1.18	0.52	1.00				0.00	0.00
24.80	24.75	2.00	0.67	84.6	31.2	11.0	1.09		5.5	3.4	0.2	1.06	12.0	9.3	5.8	3.3	0.88	1.03	1.01	1.00	0.53	0.62	1.18	0.52	1.00				0.00	0.00
24.90	24.87	1.72	0.57	82.7	30.2	10.6	1.18		5.9	3.5	0.2	1.06	12.5	9.4	5.8	3.5	0.88	1.03	1.01	1.00	0.53	0.67	1.27	0.52	1.06				0.00	0.00
25.10	25.00	5.05	1.68	95.9	37.5	13.6	0.68		4.9	2.7	0.1	1.05	11.2	8.4	5.7	2.5	0.88	1.03	1.01	1.00	0.53	1.30		0.53	0.75				0.00	0.00
25.20	25.15	3.76	1.25	92.3	35.4	12.7	0.79		5.6	3.0	0.1	1.05	12.1	8.8	5.7	2.8	0.88	1.03	1.01	1.00	0.53	1.30		0.53	0.82				0.00	0.00
25.30	25.28	1.12	0.37	76.9	27.5	9.6	1.50		7.4	4.2	0.3	1.05	14.4	10.3	5.8	4.3	0.88	1.03	1.01	1.00	0.53	0.86	1.61	0.53	1.28				0.00	0.00
25.50	25.40	3.49	1.16	91.4	34.8	12.5	0.82		5.8	3.1	0.1	1.05	12.3	8.9	5.7	2.9	0.88	1.03	1.01	1.00	0.53	1.30		0.53	0.84				0.00	0.00
25.60	25.53	4.44	1.48	94.3	36.6	13.2	0.72		5.3	3.0	0.1	1.05	11.6	8.7	5.7	2.7	0.88	1.03	1.01	1.00	0.53	1.30		0.53	0.79				0.00	0.00
25.70	25.66	5.16	1.72	96.1	37.7	13.6	0.67		5.0	2.9	0.1	1.05	11.2	8.6	5.7	2.6	0.87	1.03	1.00	1.00	0.53	1.30		0.54	0.75				0.00	0.00
25.90	25.79	4.84	1.61	95.3	37.1	13.4	0.69		5.1	2.9	0.1	1.04	11.4	8.6	5.7	2.6	0.87	1.03	1.00	1.00	0.53	1.30		0.54	0.77				0.00	0.00
26.00	25.93	4.20	1.40	93.5	36.1	13.0	0.74		5.4	3.0	0.1	1.04	11.8	8.7	5.7	2.7	0.87	1.03	1.00	1.00	0.54	1.30		0.54	0.81				0.00	0.00
26.10	26.06	1.25	0.42	78.8	28.3	9.9	1.37		7.0	4.0	0.2	1.04	13.7	10.1	5.8	3.9	0.87	1.03	1.00	1.00	0.54	0.78	1.47	0.54	1.22				0.00	0.00
26.30	26.19	3.60	1.20	91.7	35.0	12.5	0.80		5.8	3.2	0.1	1.04	12.3	9.0	5.7	2.9	0.87	1.03	1.00	1.00	0.54	1.30		0.55	0.85				0.00	0.00
26.40	26.33	3.72	1.24	92.1	35.2	12.6	0.79		8.7	3.3	0.1	1.04	15.8	9.2	5.7	3.0	0.87	1.03	1.00	1.00	0.54	1.30		0.55	0.85				0.00	0.00
26.50	26.46	1.46	0.49	80.7	29.2	10.2	1.26		6.6	4.3	0.2	1.04	13.1	10.3	5.8	4.1	0.87	1.03	1.00	1.00	0.54	0.72	1.34	0.55	1.16				0.00	0.00
26.70	26.59	1.11	0.37	76.8	27.4	9.5	1.49		7.6	4.6	0.3	1.03	14.5	10.7	5.9	4.5	0.87	1.03	1.00	1.00	0.54	0.85	1.58	0.55	1.31				0.00	0.00
26.80	26.72	1.56	0.52	81.5	29.6	10.4	1.22		6.4	4.0	0.2	1.03	13.0	10.0	5.8	3.8	0.87	1.03	1.00	1.00	0.54	0.70	1.30	0.55	1.14				0.00	0.00
26.90	26.86	2.25	0.75	85.8	31.8	11.3	1.02		5.5	3.6	0.2	1.03	11.8	9.5	5.8	3.3	0.87	1.03	1.00	1.00	0.54	0.58	1.08	0.56	1.01				0.00	0.00
27.00	26.99	2.57	0.86	87.4	32.6	11.6	0.95		5.2	3.5	0.2	1.03	11.4	9.3	5.8	3.2	0.87	1.03	1.00	1.00	0.54	1.30		0.56	0.97				0.00	0.00
27.20	27.11	2.51	0.84	87.1	32.5	11.5	0.96		5.2	3.6	0.2	1.03	11.5	9.4	5.8	3.3	0.87	1.03	1.00	1.00	0.54	1.30		0.56	0.98				0.00	0.00
27.30	27.26	2.10	0.70	85.0	31.4	11.1	1.05		5.7	3.8	0.2	1.03	12.0	9.7	5.8	3.5	0.87	1.03	1.00	1.00	0.54	1.30		0.56	1.04				0.00	0.00

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Z_b (ft)	Z_m (ft)	$C_c/(1+e_0)$(%)	$C_r/(1+e_0)$(%)	μ_{FC}	μ_{LL}	μ_{PI}	K_0	D_R (%)	$N_{60L\&B}$	$(N_{60})_{Ic}$	$(N_1)_{60I\&B}$	C_N	$(N_1)_{60csL\&R}$	$(N_1)_{60csIc}$	$(N_1)_{60csI\&B}$	$(N_1)_{60qc1ncs}$	r_d	MSF	K_σ	K_α	$CSR_{7.5}$	$CRR_{7.5}$	FS	τ_{av}(tsf)	p'(tsf)	γ_{max} (%)	G/G_0	ε_v (%)	ΔS_i	ΣS_i (in)
27.40	27.38	2.01	0.67	84.4	31.1	11.0	1.08		5.8	3.9	0.2	1.02	12.2	9.8	5.8	3.6	0.86	1.03	1.00	1.00	0.54	1.30		0.56	1.06				0.00	0.00
27.60	27.51	2.30	0.77	86.0	31.9	11.3	1.00		7.3	3.8	0.2	1.02	14.0	9.7	5.8	3.4	0.86	1.03	1.00	1.00	0.54	1.30		0.57	1.02				0.00	0.00
27.70	27.65	2.41	0.80	86.6	32.2	11.4	0.98		7.2	3.8	0.2	1.02	13.8	9.6	5.8	3.4	0.86	1.03	1.00	1.00	0.54	1.30		0.57	1.00				0.00	0.00
27.80	27.78	2.29	0.76	85.9	31.8	11.3	1.01		7.4	3.9	0.2	1.02	14.0	9.7	5.8	3.5	0.86	1.03	1.00	1.00	0.54	1.30		0.57	1.02				0.00	0.00
28.00	27.91	2.18	0.73	85.3	31.5	11.2	1.03		7.6	3.9	0.2	1.02	14.3	9.8	5.8	3.5	0.86	1.03	1.00	1.00	0.54	1.30		0.57	1.04				0.00	0.00
28.10	28.04	2.26	0.75	85.7	31.7	11.2	1.01		7.5	3.9	0.2	1.02	14.1	9.7	5.8	3.5	0.86	1.03	1.00	1.00	0.54	1.30		0.58	1.03				0.00	0.00
28.20	28.16	2.47	0.82	86.8	32.3	11.5	0.97		7.2	3.8	0.2	1.01	13.8	9.6	5.8	3.3	0.86	1.03	1.00	1.00	0.54	1.30		0.58	1.01				0.00	0.00
28.40	28.29	2.81	0.94	88.3	33.1	11.8	0.91		6.8	3.6	0.2	1.01	13.3	9.4	5.8	3.2	0.86	1.03	1.00	1.00	0.54	1.30		0.58	0.97				0.00	0.00
28.50	28.42	3.08	1.03	89.4	33.7	12.0	0.87		6.6	3.5	0.2	1.01	13.0	9.2	5.8	3.0	0.86	1.03	1.00	1.00	0.54	1.30		0.58	0.94				0.00	0.00
28.60	28.54	3.24	1.08	90.0	34.0	12.2	0.84		6.5	3.5	0.2	1.01	12.9	9.2	5.8	3.0	0.86	1.03	1.00	1.00	0.54	1.30		0.58	0.93				0.00	0.00
28.70	28.68	2.40	0.80	86.4	32.1	11.4	0.98		5.6	3.8	0.2	1.01	11.7	9.6	5.8	3.3	0.86	1.03	1.00	1.00	0.54	1.30		0.59	1.03				0.00	0.00
28.90	28.81	1.92	0.64	83.6	30.7	10.8	1.10		6.1	4.0	0.2	1.01	12.4	9.8	5.8	3.5	0.86	1.03	1.00	1.00	0.54	0.63	1.15	0.59	1.11				0.00	0.00
29.00	28.96	2.30	0.77	85.8	31.8	11.3	1.00		5.7	3.8	0.2	1.01	11.9	9.6	5.8	3.3	0.85	1.03	1.00	1.00	0.54	1.30		0.59	1.05				0.00	0.00
29.20	29.10	2.53	0.84	86.9	32.4	11.5	0.95		5.5	3.7	0.2	1.00	11.6	9.4	5.8	3.2	0.85	1.03	1.00	1.00	0.54	1.30		0.59	1.02				0.00	0.00
29.30	29.22	2.72	0.91	87.8	32.8	11.7	0.92		5.3	3.6	0.2	1.00	11.4	9.3	5.8	3.1	0.85	1.03	1.00	1.00	0.55	1.30		0.59	1.00				0.00	0.00
29.40	29.34	2.74	0.91	87.9	32.9	11.7	0.92		5.3	3.6	0.2	1.00	11.4	9.3	5.8	3.1	0.85	1.03	1.00	1.00	0.55	1.30		0.60	1.00				0.00	0.00
29.50	29.48	2.90	0.97	88.5	33.2	11.8	0.89		5.2	3.6	0.2	1.00	11.2	9.3	5.8	3.0	0.85	1.03	1.00	1.00	0.55	1.30		0.60	0.98				0.00	0.00
29.70	29.60	3.76	1.25	91.6	35.0	12.5	0.78		4.7	3.4	0.1	1.00	10.6	9.0	5.7	2.8	0.85	1.03	1.00	1.00	0.55	1.30		0.60	0.91				0.00	0.00
29.80	29.74	4.92	1.64	94.9	36.9	13.3	0.68		5.6	3.2	0.1	1.00	11.7	8.8	5.7	2.5	0.85	1.03	1.00	1.00	0.55	1.30		0.60	0.84				0.00	0.00
29.90	29.88	4.82	1.61	94.6	36.7	13.2	0.69		5.7	3.2	0.1	0.99	11.8	8.8	5.7	2.5	0.85	1.03	1.00	1.00	0.55	1.30		0.60	0.85				0.00	0.00
30.10	29.99	2.02	0.67	84.1	30.9	10.9	1.06		6.1	3.8	0.2	0.99	12.3	9.6	5.8	3.3	0.85	1.03	1.00	1.00	0.55	0.61	1.11	0.61	1.12				0.00	0.00
30.20	30.14	1.84	0.61	82.9	30.3	10.7	1.12		6.4	3.9	0.2	0.99	12.7	9.6	5.8	3.4	0.85	1.03	1.00	1.00	0.55	0.64	1.17	0.61	1.16				0.00	0.00
30.30	30.27	5.99	2.00	97.2	38.3	13.9	0.62		5.2	3.0	0.1	0.99	11.2	8.5	5.7	2.3	0.85	1.03	1.00	1.00	0.55	1.30		0.61	0.80				0.00	0.00
30.50	30.39	6.31	2.10	97.8	38.7	14.0	0.60		5.1	2.9	0.1	0.99	11.1	8.5	5.7	2.3	0.85	1.03	1.00	1.00	0.55	1.30		0.61	0.79				0.00	0.00
30.60	30.53	6.74	2.25	98.6	39.2	14.2	0.58		5.0	2.9	0.1	0.99	10.9	8.4	5.7	2.2	0.84	1.03	1.00	1.00	0.55	1.30		0.61	0.78				0.00	0.00
30.70	30.66	7.47	2.49	99.8	40.0	14.6	0.55		4.8	2.8	0.1	0.99	10.7	8.3	5.7	2.1	0.84	1.03	1.00	1.00	0.55	1.30		0.62	0.76				0.00	0.00
30.90	30.79	9.21	3.07	100.0	41.7	15.2	0.50		4.5	2.7	0.1	0.99	10.3	8.2	5.7	2.0	0.84	1.03	1.00	1.00	0.55	1.30		0.62	0.73				0.00	0.00
31.00	30.94	8.67	2.89	100.0	41.2	15.0	0.51		4.6	2.8	0.1	0.98	10.4	8.2	5.7	2.0	0.84	1.03	1.00	1.00	0.55	1.30		0.62	0.74				0.00	0.00
31.10	31.06	5.57	1.86	96.2	37.7	13.6	0.64		4.1	3.0	0.1	0.98	9.8	8.5	5.7	2.3	0.84	1.03	1.00	1.00	0.55	1.30		0.62	0.83				0.00	0.00
31.20	31.18	3.02	1.01	88.8	33.4	11.9	0.87		5.3	3.5	0.2	0.98	11.2	9.1	5.8	2.8	0.84	1.03	1.00	1.00	0.55	0.50	0.90	0.62	1.00				0.00	0.00
31.40	31.31	3.61	1.20	91.0	34.6	12.4	0.80		4.9	3.5	0.2	0.98	10.8	9.1	5.8	2.8	0.84	1.03	1.00	1.00	0.55	1.30		0.62	0.95				0.00	0.00
31.50	31.44	3.06	1.02	88.9	33.5	11.9	0.86		5.3	3.6	0.2	0.98	11.2	9.2	5.8	2.9	0.84	1.03	1.00	1.00	0.55	1.30		0.63	1.00				0.00	0.00
31.60	31.57	2.58	0.86	86.9	32.3	11.5	0.94		5.7	3.7	0.2	0.98	11.7	9.3	5.8	3.0	0.84	1.03	1.00	1.00	0.55	0.54	0.98	0.63	1.06				0.00	0.00
31.80	31.72	2.60	0.87	86.9	32.4	11.5	0.94		5.7	3.7	0.2	0.98	11.7	9.3	5.8	3.0	0.84	1.03	1.00	1.00	0.55	0.53	0.97	0.63	1.06				0.00	0.00
31.90	31.85	2.47	0.82	86.3	32.0	11.4	0.96		5.8	3.8	0.2	0.98	11.8	9.4	5.8	3.1	0.84	1.03	1.00	1.00	0.55	0.55	1.00	0.63	1.08				0.00	0.00
32.00	31.96	1.46	0.49	80.0	28.9	10.1	1.24		5.9	4.3	0.2	0.97	11.9	10.1	5.8	3.7	0.84	1.03	1.00	1.00	0.55	0.71	1.29	0.63	1.30				0.00	0.00
32.20	32.11	0.96	0.32	72.5	25.5	8.8	1.69		7.8	5.6	0.3	0.97	14.1	11.5	5.9	4.8	0.83	1.03	1.00	1.00	0.55	0.97	1.76	0.64	1.64				0.00	0.00
32.30	32.24	0.82	0.27	68.5	23.9	8.2	1.99		9.1	6.5	0.3	0.97	15.6	12.5	5.9	5.6	0.83	1.03	1.00	1.00	0.55	1.14	2.00	0.64	1.86				0.00	0.00
32.40	32.36	0.63	0.21	62.2	21.6	7.3	2.58		11.6	8.0	0.4	0.97	18.6	14.3	6.0	7.1	0.83	1.03	1.00	1.00	0.55	1.30	2.00	0.64	2.32				0.00	0.00
32.60	32.48	0.46	0.05	54.7	19.1	6.4	0.41	58.8	15.6	9.8	1.6	0.97	21.7	15.3	6.8	22.9	0.83	1.09	0.99	1.00	0.53	0.13	2.00	0.64	0.69				0.00	0.00
32.70	32.62	0.51	0.05	57.3	19.9	6.7	0.39	57.5	14.2	9.0	1.1	0.97	20.4	14.6	6.4	22.5	0.83	1.08	0.99	1.00	0.53	0.13	2.00	0.64	0.67				0.00	0.00
32.80	32.76	0.69	0.23	64.3	22.3	7.6	2.36		10.9	7.4	0.4	0.96	17.6	13.5	5.9	6.4	0.83	1.03	1.00	1.00	0.55	1.30	2.00	0.65	2.17				0.00	0.00
33.00	32.89	0.89	0.30	70.6	24.8	8.5	1.81		8.5	6.1	0.3	0.96	14.9	12.0	5.9	5.2	0.83	1.03	1.00	1.00	0.55	1.04	2.00	0.65	1.76				0.00	0.00
33.10	33.02	1.76	0.59	82.0	29.9	10.5	1.13		7.0	4.6	0.2	0.96	13.1	10.3	5.8	3.7	0.83	1.03	1.00	1.00	0.55	0.65	1.17	0.65	1.25				0.00	0.00
33.20	33.16	2.79	0.93	87.6	32.7	11.6	0.90		5.8	4.0	0.2	0.96	11.7	9.6	5.8	3.1	0.83	1.03	1.00	1.00	0.55	1.30		0.65	1.07				0.00	0.00
33.40	33.30	4.18	1.39	92.4	35.4	12.7	0.74		4.9	3.6	0.1	0.96	10.7	9.1	5.7	2.7	0.83	1.03	1.00	1.00	0.55	1.30		0.65	0.95				0.00	0.00
33.50	33.42	4.69	1.56	93.8	36.2	13.0	0.70		6.3	3.5	0.1	0.96	12.2	9.0	5.7	2.6	0.83	1.03	1.00	1.00	0.55	1.30		0.66	0.92				0.00	0.00
33.60	33.55	4.66	1.55	93.7	36.2	13.0	0.70		4.7	3.5	0.1	0.96	10.4	9.0	5.7	2.6	0.83	1.03	1.00	1.00	0.55	1.30		0.66	0.92				0.00	0.00
33.70	33.68	3.76	1.25	91.1	34.7	12.4	0.78		5.2	3.6	0.2	0.96	10.9	9.1	5.8	2.7	0.82	1.03	0.99	1.00	0.55	1.30		0.66	0.99				0.00	0.00
33.90	33.80	2.09	0.70	84.1	30.9	10.9	1.04		6.6	4.2	0.2	0.95	12.6	9.8	5.8	3.3	0.82	1.03	0.99	1.00	0.55	0.59	1.07	0.66	1.19				0.00	0.00
34.00	33.94	1.46	0.49	79.7	28.8	10.1	1.24		6.2	4.6	0.2	0.95	12.1	10.2	5.8	3.7	0.82	1.03	0.99	1.00	0.55	0.71	1.28	0.66	1.35				0.00	0.00
34.10	34.07	1.39	0.46	79.1	28.5	10.0	1.27		6.3	4.7	0.2	0.95	12.2	10.4	5.8	3.8	0.82	1.03	0.99	1.00	0.55	0.72	1.31	0.66	1.38				0.00	0.00
34.30	34.19	1.59	0.53	80.7	29.2	10.3	1.18		6.0	4.6	0.2	0.95	11.8	10.2	5.8	3.6	0.82	1.03	0.99	1.00	0.55	0.68	1.22	0.67	1.32				0.00	0.00
34.40	34.33	1.63	0.54	81.0	29.4	10.3	1.17		7.5	4.6	0.2	0.95	13.5	10.3	5.8	3.7	0.82	1.03	0.99	1.00	0.55	0.67	1.21	0.67	1.31				0.00	0.00
34.50	34.46	1.39	0.46	79.1	28.4	9.9	1.27		6.4	4.9	0.2	0.95	12.3	10.6	5.8	3.9	0.82	1.03	0.99	1.00	0.55	0.72	1.31	0.67	1.39				0.00	0.00
34.70	34.59	1.39	0.46	79.0	28.4	9.9	1.27		6.4	4.9	0.2	0.95	12.3	10.5	5.8	3.9	0.82	1.03	0.99	1.00	0.55	0.72	1.31	0.67	1.39				0.00	0.00
34.80	34.73	1.27	0.42	77.9	27.9	9.7	1.32		6.7	5.0	0.2	0.94	12.6	10.7	5.9	4.0	0.82	1.03	0.99	1.00	0.55	0.76	1.37	0.67	1.44				0.00	0.00
34.90	34.86	1.92	0.64	82.9	30.3	10.7	1.08		7.0	4.5	0.2	0.94	12.9	10.1	5.8	3.5	0.82	1.03	0.99	1.00	0.55	0.62	1.11	0.68	1.25				0.00	0.00
35.00	34.99	1.96	0.65	83.1	30.4	10.7	1.07		7.0	4.4	0.2	0.94	12.9	10.0	5.8	3.4	0.82	1.03	0.99	1.00	0.55	0.61	1.10	0.68	1.25				0.00	0.00
35.20	35.12	1.69	0.56	81.3	29.5	10.4	1.15		7.5	4.8	0.2	0.94	13.4	10.4	5.8	3.7	0.82	1.03	0.99	1.00	0.55	0.66	1.19	0.68	1.31				0.00	0.00
35.30	35.25	1.55	0.52	80.3	29.0	10.2	1.20		7.8	4.9	0.2	0.94	13.7	10.6	5.8	3.8	0.81	1.03	0.99	1.00	0.55	0.69	1.24	0.68	1.36				0.00	0.00
35.40	35.38	1.61	0.54	80.6	29.2	10.2	1.18		7.7	4.9	0.2	0.94	13.6	10.5	5.8	3.8	0.81	1.03	0.99	1.00	0.55	0.67	1.22	0.68	1.34				0.00	0.00
35.60	35.52	1.39	0.46	78.9	28.3	9.9	1.27		8.2	5.1	0.2	0.94	14.2	10.8	5.8	4.0	0.81	1.03	0.99	1.00	0.55	0.72	1.31	0.68	1.42				0.00	0.00
35.70	35.66	1.54	0.51	80.1	28.9	10.1	1.20		7.8	5.0	0.2	0.94	13.8	10.6	5.8	3.8	0.81	1.03	0.99	1.00	0.55	0.69	1.24	0.69	1.37				0.00	0.00
35.80	35.78	1.65	0.55	80.9	29.3	10.3	1.16		7.6	4.9	0.2	0.93	13.6	10.5	5.8	3.8	0.81	1.03	0.99	1.00	0.55	0.66	1.20	0.69	1.34				0.00	0.00
36.00	35.90	1.78	0.59	81.8	29.8	10.5	1.12		7.4	4.8	0.2	0.93	13.3	10.4	5.8	3.6	0.81	1.03	0.99	1.00	0.55	0.64	1.15	0.69	1.31				0.00	0.00
36.10	36.04	1.93	0.64	82.7	30.2	10.6	1.08		7.2	4.7	0.2	0.93	13.0	10.2	5.8	3.5	0.81	1.03	0.99	1.00	0.55	0.61	1.11	0.69	1.28				0.00	0.00
36.20	36.17	2.08	0.69	83.6	30.7	10.8	1.04		7.0	4.6	0.2	0.93	12.8	10.1	5.8	3.4	0.81	1.03	0.99	1.00	0.55	1.30		0.69	1.25				0.00	0.00
36.40	36.30	1.68	0.56	81.1	29.4	10.3	1.15		7.6	4.8	0.2	0.93	13.5	10.4	5.8	3.7	0.81	1.03	0.99	1.00	0.55	0.66	1.18	0.70	1.35				0.00	0.00

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Z_b (ft)	Z_m (ft)	$C_c/(1+e_0)$(%)	$C_r/(1+e_0)$(%)	μ_{FC}	μ_{LL}	μ_{PI}	K_0	D_R (%)	$N_{60L\&B}$	$(N_{60})_{Ic}$	$(N_1)_{60I\&B}$	C_N	$(N_1)_{60csL\&R}$	$(N_1)_{60csIc}$	$(N_1)_{60csI\&B}$	$(N_1)_{60qcIncs}$	r_d	MSF	K_σ	K_α	$CSR_{7.5}$	$CRR_{7.5}$	FS	τ_{av}(tsf)	p'(tsf)	γ_{max} (%)	G/G_0	ε_v (%)	ΔS_i	ΣS_i (in)
36.50	36.45	1.37	0.46	78.7	28.3	9.9	1.27		6.7	5.1	0.2	0.93	12.4	10.7	5.8	3.9	0.81	1.03	0.99	1.00	0.55	0.72	1.31	0.70	1.45				0.00	0.00
36.60	36.57	1.70	0.57	81.2	29.5	10.3	1.14		7.6	4.8	0.2	0.93	13.5	10.4	5.8	3.6	0.81	1.03	0.99	1.00	0.55	0.65	1.18	0.70	1.35				0.00	0.00
36.80	36.69	1.79	0.60	81.8	29.7	10.4	1.11		7.5	4.9	0.2	0.93	13.3	10.4	5.8	3.6	0.80	1.03	0.99	1.00	0.55	0.64	1.15	0.70	1.33				0.00	0.00
36.90	36.82	1.84	0.61	82.1	29.9	10.5	1.10		7.4	4.9	0.2	0.92	13.2	10.4	5.8	3.6	0.80	1.03	0.99	1.00	0.55	1.30		0.70	1.32				0.00	0.00
37.00	36.94	1.96	0.65	82.8	30.2	10.6	1.07		7.3	4.9	0.2	0.92	13.1	10.4	5.8	3.6	0.80	1.03	0.99	1.00	0.55	1.30		0.70	1.30				0.00	0.00
37.20	37.09	1.87	0.62	82.2	29.9	10.5	1.09		7.4	4.9	0.2	0.92	13.2	10.5	5.8	3.6	0.80	1.03	0.99	1.00	0.55	1.30		0.71	1.32				0.00	0.00
37.30	37.22	1.71	0.57	81.1	29.4	10.3	1.14		7.7	5.1	0.2	0.92	13.5	10.6	5.8	3.7	0.80	1.03	0.99	1.00	0.55	0.65	1.17	0.71	1.36				0.00	0.00
37.40	37.35	1.61	0.54	80.4	29.1	10.2	1.17		8.0	5.2	0.2	0.92	13.8	10.7	5.8	3.8	0.80	1.03	0.99	1.00	0.55	0.67	1.21	0.71	1.40				0.00	0.00
37.50	37.47	1.50	0.50	79.6	28.7	10.0	1.21		8.2	5.3	0.2	0.92	14.0	10.8	5.8	3.9	0.80	1.03	0.99	1.00	0.55	0.69	1.25	0.71	1.43				0.00	0.00
37.70	37.61	1.59	0.53	80.2	29.0	10.1	1.18		8.0	5.3	0.2	0.92	13.9	10.8	5.8	3.9	0.80	1.03	0.99	1.00	0.55	0.68	1.22	0.71	1.41				0.00	0.00
37.80	37.74	1.75	0.58	81.3	29.5	10.4	1.13		7.8	5.2	0.2	0.92	13.5	10.7	5.8	3.8	0.80	1.03	0.99	1.00	0.55	1.30		0.72	1.37				0.00	0.00
37.90	37.87	1.88	0.63	82.1	29.9	10.5	1.09		7.5	5.2	0.2	0.91	13.3	10.7	5.8	3.7	0.80	1.03	0.99	1.00	0.55	1.30		0.72	1.34				0.00	0.00
38.10	38.01	1.76	0.59	81.3	29.5	10.4	1.12		7.8	5.2	0.2	0.91	13.5	10.8	5.8	3.8	0.80	1.03	0.99	1.00	0.55	1.30		0.72	1.37				0.00	0.00
38.20	38.14	1.62	0.54	80.3	29.0	10.2	1.17		8.1	5.4	0.2	0.91	13.8	10.9	5.8	3.9	0.80	1.03	0.99	1.00	0.55	1.30		0.72	1.42				0.00	0.00
38.30	38.26	1.47	0.49	79.1	28.5	9.9	1.23		8.4	5.6	0.2	0.91	14.2	11.2	5.8	4.1	0.79	1.03	0.99	1.00	0.55	1.30		0.72	1.47				0.00	0.00
38.50	38.40	1.07	0.36	74.2	26.2	9.1	1.50		10.1	6.3	0.3	0.91	16.0	11.9	5.9	4.7	0.79	1.03	0.99	1.00	0.55	0.86	1.55	0.72	1.71				0.00	0.00
38.60	38.55	1.03	0.34	73.2	25.8	8.9	1.56		10.5	6.5	0.3	0.91	16.4	12.1	5.9	4.9	0.79	1.03	0.99	1.00	0.55	0.89	1.61	0.73	1.76				0.00	0.00
38.70	38.67	1.00	0.33	72.7	25.6	8.8	1.59		10.7	6.6	0.3	0.91	16.7	12.2	5.9	4.9	0.79	1.03	0.99	1.00	0.55	0.91	1.64	0.73	1.79				0.00	0.00
38.90	38.79	0.98	0.33	72.0	25.3	8.7	1.63		11.0	6.7	0.3	0.91	17.0	12.3	5.9	5.0	0.79	1.03	0.99	1.00	0.55	0.93	1.69	0.73	1.83				0.00	0.00
39.00	38.92	0.96	0.32	71.6	25.1	8.7	1.66		11.2	6.8	0.3	0.90	17.2	12.4	5.9	5.0	0.79	1.03	0.99	1.00	0.55	0.95	1.72	0.73	1.86				0.00	0.00
39.10	39.05	1.00	0.33	72.6	25.6	8.8	1.59		10.8	6.6	0.3	0.90	16.7	12.2	5.9	4.9	0.79	1.03	0.99	1.00	0.55	0.91	1.65	0.73	1.81				0.00	0.00
39.30	39.19	1.01	0.34	72.6	25.6	8.8	1.59		10.8	6.7	0.3	0.90	16.7	12.2	5.9	4.9	0.79	1.03	0.99	1.00	0.55	0.91	1.64	0.74	1.81				0.00	0.00
39.40	39.32	0.98	0.33	71.9	25.3	8.7	1.63		11.1	6.8	0.3	0.90	17.0	12.3	5.9	5.0	0.79	1.03	0.99	1.00	0.55	0.93	1.69	0.74	1.85				0.00	0.00
39.50	39.45	0.94	0.31	70.9	24.9	8.6	1.70		11.6	7.1	0.3	0.90	17.5	12.6	5.9	5.2	0.79	1.03	0.99	1.00	0.55	0.97	1.75	0.74	1.92				0.00	0.00
39.70	39.59	0.90	0.30	69.8	24.4	8.4	1.77		12.1	7.5	0.3	0.90	18.0	13.0	5.9	5.5	0.79	1.03	0.99	1.00	0.55	1.01	1.84	0.74	1.99				0.00	0.00
39.80	39.72	0.86	0.29	68.8	24.0	8.2	1.85		12.6	7.8	0.3	0.90	18.5	13.4	6.0	5.7	0.79	1.03	0.99	1.00	0.55	1.06	1.91	0.74	2.06				0.00	0.00
39.90	39.84	0.85	0.28	68.4	23.9	8.2	1.88		12.8	7.9	0.3	0.90	18.7	13.5	6.0	5.8	0.78	1.03	0.99	1.00	0.55	1.07	1.94	0.74	2.09				0.00	0.00
40.00	39.97	0.87	0.29	68.9	24.1	8.3	1.83		12.5	7.8	0.3	0.89	18.5	13.4	5.9	5.7	0.78	1.03	0.99	1.00	0.55	1.05	1.90	0.75	2.06				0.00	0.00
40.20	40.11	0.92	0.31	70.3	24.6	8.5	1.73		16.0	7.6	0.3	0.89	22.1	13.1	5.9	5.5	0.78	1.03	0.99	1.00	0.55	0.99	1.80	0.75	1.98				0.00	0.00
40.30	40.24	0.55	0.05	58.2	20.2	6.8	0.36	56.9	18.9	9.8	0.9	0.89	24.4	14.9	6.3	24.2	0.78	1.08	0.97	1.00	0.53	0.13	2.00	0.75	0.76				0.00	0.00
40.40	40.37	1.01	0.34	72.5	25.5	8.8	1.58		14.7	7.1	0.3	0.89	20.7	12.6	5.9	5.1	0.78	1.03	0.99	1.00	0.55	0.90	2.00	0.75	1.85				0.00	0.00
40.60	40.50	1.09	0.36	74.2	26.3	9.1	1.47		13.9	6.9	0.3	0.89	19.8	12.3	5.9	4.9	0.78	1.03	0.99	1.00	0.55	1.30	2.00	0.75	1.76				0.00	0.00
40.70	40.62	1.13	0.38	75.2	26.7	9.3	1.41		13.4	6.6	0.3	0.89	19.3	12.1	5.9	4.7	0.78	1.03	0.99	1.00	0.55	1.30		0.75	1.71				0.00	0.00
40.80	40.75	1.12	0.37	74.9	26.5	9.2	1.43		10.2	6.6	0.3	0.89	15.9	12.1	5.9	4.7	0.78	1.03	0.99	1.00	0.55	0.82	1.48	0.76	1.73				0.00	0.00
41.00	40.88	1.14	0.38	75.3	26.7	9.3	1.40		10.1	6.5	0.3	0.89	15.7	11.9	5.9	4.6	0.78	1.03	0.99	1.00	0.55	0.80	1.46	0.76	1.71				0.00	0.00
41.10	41.02	1.25	0.42	76.8	27.4	9.5	1.32		9.5	6.1	0.2	0.88	15.1	11.5	5.9	4.2	0.78	1.03	0.99	1.00	0.55	0.75	1.37	0.76	1.64				0.00	0.00
41.20	41.16	1.43	0.48	78.4	28.1	9.8	1.23		9.0	5.9	0.2	0.88	14.6	11.3	5.8	4.1	0.78	1.03	0.99	1.00	0.55	1.30		0.76	1.57				0.00	0.00
41.40	41.30	1.42	0.47	78.3	28.1	9.8	1.24		9.1	5.9	0.2	0.88	14.6	11.3	5.8	4.0	0.78	1.03	0.99	1.00	0.55	0.71	1.28	0.76	1.58				0.00	0.00
41.50	41.44	1.46	0.49	78.6	28.2	9.9	1.22		9.0	5.9	0.2	0.88	14.5	11.3	5.8	4.0	0.77	1.03	0.99	1.00	0.55	1.30		0.77	1.57				0.00	0.00
41.60	41.57	1.20	0.40	76.3	27.2	9.4	1.34		9.8	6.2	0.3	0.88	15.3	11.5	5.9	4.2	0.77	1.03	0.99	1.00	0.55	0.77	1.39	0.77	1.68				0.00	0.00
41.80	41.70	1.32	0.44	77.4	27.7	9.6	1.28		9.4	6.0	0.2	0.88	14.9	11.3	5.9	4.1	0.77	1.03	0.99	1.00	0.55	0.73	1.33	0.77	1.63				0.00	0.00
41.90	41.81	1.47	0.49	78.7	28.3	9.9	1.22		9.0	5.9	0.2	0.88	14.5	11.2	5.8	4.0	0.77	1.03	0.99	1.00	0.55	0.69	1.26	0.77	1.57				0.00	0.00
42.00	41.95	1.48	0.49	78.7	28.3	9.9	1.21		9.0	5.8	0.2	0.88	14.5	11.1	5.8	3.9	0.77	1.03	0.99	1.00	0.55	0.69	1.26	0.77	1.57				0.00	0.00
42.10	42.08	1.34	0.45	77.6	27.8	9.7	1.27		9.4	6.0	0.2	0.87	14.9	11.3	5.9	4.0	0.77	1.03	0.99	1.00	0.55	0.72	1.32	0.77	1.63				0.00	0.00
42.30	42.21	1.09	0.36	74.3	26.3	9.1	1.45		8.5	6.5	0.3	0.87	13.9	11.8	5.9	4.4	0.77	1.03	0.99	1.00	0.55	0.83	1.50	0.78	1.80				0.00	0.00
42.40	42.34	1.03	0.34	73.0	25.7	8.9	1.53		8.9	6.6	0.3	0.87	14.4	12.0	5.9	4.5	0.77	1.03	0.98	1.00	0.55	0.87	1.59	0.78	1.88				0.00	0.00
42.50	42.46	1.14	0.38	75.3	26.7	9.3	1.39		8.2	6.3	0.3	0.87	13.6	11.6	5.9	4.3	0.77	1.03	0.98	1.00	0.55	0.79	1.44	0.78	1.75				0.00	0.00
42.70	42.60	1.29	0.43	77.1	27.5	9.6	1.29		9.7	6.0	0.2	0.87	15.1	11.3	5.9	4.0	0.77	1.03	0.98	1.00	0.55	0.74	1.34	0.78	1.66				0.00	0.00
42.80	42.74	1.25	0.42	76.7	27.4	9.5	1.30		7.8	6.1	0.2	0.87	13.2	11.4	5.9	4.1	0.77	1.03	0.98	1.00	0.55	0.75	1.36	0.78	1.68				0.00	0.00
42.90	42.86	1.18	0.39	76.0	27.1	9.4	1.34		10.1	6.3	0.3	0.87	15.5	11.6	5.9	4.2	0.77	1.03	0.98	1.00	0.55	0.77	1.40	0.78	1.72				0.00	0.00
43.00	42.98	1.14	0.38	75.2	26.7	9.3	1.39		10.4	6.5	0.3	0.87	15.8	11.8	5.9	4.4	0.76	1.03	0.98	1.00	0.55	0.79	1.45	0.78	1.77				0.00	0.00
43.20	43.13	1.02	0.34	72.4	25.5	8.8	1.55		11.5	7.1	0.3	0.87	17.0	12.3	5.9	4.8	0.76	1.03	0.98	1.00	0.55	0.89	1.62	0.79	1.93				0.00	0.00
43.30	43.26	0.82	0.27	67.3	23.5	8.0	1.90		11.1	8.2	0.4	0.86	16.5	13.5	6.0	5.6	0.76	1.03	0.98	1.00	0.55	1.09	1.99	0.79	2.27				0.00	0.00
43.50	43.39	0.64	0.21	61.4	21.3	7.2	2.42		13.9	9.9	0.4	0.86	19.4	15.2	6.0	6.9	0.76	1.03	0.98	1.00	0.55	1.30	2.00	0.79	2.76				0.00	0.00
43.60	43.52	0.59	0.20	59.4	20.6	6.9	2.62		15.0	10.6	0.5	0.86	20.6	16.0	6.1	7.4	0.76	1.04	0.98	1.00	0.55	1.30	2.00	0.79	2.96				0.00	0.00
43.70	43.65	0.55	0.18	57.3	19.9	6.7	2.85		20.4	11.5	0.5	0.86	26.0	16.9	6.1	8.0	0.76	1.04	0.98	1.00	0.55	1.30	2.00	0.79	3.18				0.00	0.00
43.90	43.78	0.56	0.19	57.7	20.0	6.7	2.80		20.1	11.4	0.5	0.86	25.8	16.8	6.1	7.9	0.76	1.04	0.98	1.00	0.55	1.30	2.00	0.79	3.15				0.00	0.00
44.00	43.92	0.69	0.23	62.7	21.7	7.4	2.28		16.7	9.9	0.4	0.86	22.2	15.2	6.0	6.8	0.76	1.03	0.98	1.00	0.55	1.30	2.00	0.80	2.66				0.00	0.00
44.10	44.05	0.83	0.28	67.2	23.4	8.0	1.90		14.1	8.7	0.4	0.86	19.5	13.9	6.0	5.8	0.76	1.03	0.98	1.00	0.55	1.08	1.99	0.80	2.30				0.00	0.00
44.20	44.17	0.87	0.29	68.4	23.9	8.2	1.81		13.5	8.4	0.3	0.86	18.9	13.6	6.0	5.6	0.76	1.03	0.98	1.00	0.55	1.03	1.89	0.80	2.22				0.00	0.00
44.40	44.30	0.85	0.28	67.9	23.7	8.1	1.84		13.8	8.5	0.3	0.86	19.1	13.7	6.0	5.7	0.76	1.03	0.98	1.00	0.55	1.05	1.93	0.80	2.26				0.00	0.00
44.50	44.43	0.69	0.23	62.9	21.8	7.4	2.26		13.3	9.6	0.4	0.85	18.7	14.8	6.0	6.5	0.76	1.03	0.98	1.00	0.55	1.29	2.00	0.80	2.67				0.00	0.00
44.60	44.56	0.71	0.24	63.4	22.0	7.5	2.20		16.3	9.5	0.4	0.85	21.7	14.8	6.0	6.4	0.75	1.03	0.98	1.00	0.55	1.26	2.00	0.80	2.62				0.00	0.00
44.80	44.70	0.70	0.23	63.2	21.9	7.4	2.22		16.5	9.6	0.4	0.85	21.9	14.8	6.0	6.5	0.75	1.03	0.98	1.00	0.55	1.27	2.00	0.81	2.65				0.00	0.00
44.90	44.83	0.70	0.23	63.1	21.9	7.4	2.23		13.3	9.5	0.4	0.85	18.6	14.7	6.0	6.4	0.75	1.03	0.98	1.00	0.55	1.27	2.00	0.81	2.66				0.00	0.00
45.00	44.96	0.84	0.28	67.6	23.5	8.0	1.86		11.3	8.3	0.3	0.85	16.5	13.5	5.9	5.5	0.75	1.03	0.98	1.00	0.54	1.06	1.95	0.81	2.31				0.00	0.00
45.20	45.10	1.08	0.36	73.6	26.0	9.0	1.45		11.3	7.1	0.3	0.85	16.5	12.2	5.9	4.5	0.75	1.03	0.98	1.00	0.54	0.83	1.53	0.81	1.91				0.00	0.00
45.30	45.22	1.34	0.45	77.1	27.5	9.6	1.26		10.0	6.5	0.2	0.85	15.2	11.6	5.9	4.1	0.75	1.03	0.98	1.00	0.54	0.72	1.32	0.81	1.73				0.00	0.00
45.40	45.35	1.65	0.55	79.5	28.6	10.0	1.14		9.2	6.2	0.2	0.85	14.4	11.3	5.8	3.8	0.75	1.03	0.98	1.00	0.54	1.30		0.81	1.62				0.00	0.00

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Z_b (ft)	Z_m (ft)	$C_c/(1+e_0)$(%)	$C_r/(1+e_0)$(%)	μ_{FC}	μ_{LL}	μ_{PI}	K_0	D_R (%)	$N_{60L\&B}$	$(N_{60})_{Ic}$	$(N_1)_{60I\&B}$	C_N	$(N_1)_{60csL\&R}$	$(N_1)_{60csIc}$	$(N_1)_{60csI\&B}$	$(N_1)_{60qcIncs}$	r_d	MSF	K_σ	K_α	$CSR_{7.5}$	$CRR_{7.5}$	FS	τ_{av}(tsf)	p'(tsf)	γ_{max} (%)	G/G_0	ε_v (%)	ΔS_i	ΣS_i (in)
45.60	45.50	1.64	0.55	79.3	28.6	10.0	1.15		9.3	6.3	0.2	0.85	14.4	11.4	5.8	3.9	0.75	1.03	0.98	1.00	0.54	1.30		0.82	1.63				0.00	0.00
45.70	45.62	1.09	0.36	73.6	26.0	9.0	1.45		11.4	7.2	0.3	0.84	16.5	12.3	5.9	4.6	0.75	1.03	0.98	1.00	0.54	0.83	1.52	0.82	1.93				0.00	0.00
45.80	45.74	0.89	0.30	68.9	24.1	8.2	1.75		13.6	8.2	0.3	0.84	18.7	13.3	5.9	5.3	0.75	1.03	0.98	1.00	0.54	1.00	1.84	0.82	2.23				0.00	0.00
45.90	45.88	0.83	0.28	67.1	23.4	8.0	1.88		14.5	8.8	0.4	0.84	19.6	13.9	6.0	5.7	0.75	1.03	0.98	1.00	0.54	1.07	1.98	0.82	2.37				0.00	0.00
46.10	46.01	0.78	0.26	65.5	22.8	7.7	2.00		15.4	9.3	0.4	0.84	20.6	14.4	6.0	6.1	0.75	1.03	0.98	1.00	0.54	1.14	2.00	0.82	2.50				0.00	0.00
46.20	46.14	0.75	0.25	64.6	22.4	7.6	2.07		15.9	9.6	0.4	0.84	21.1	14.7	6.0	6.2	0.74	1.03	0.98	1.00	0.54	1.18	2.00	0.82	2.57				0.00	0.00
46.30	46.28	0.76	0.25	64.8	22.5	7.6	2.05		15.8	9.6	0.4	0.84	20.9	14.7	6.0	6.2	0.74	1.03	0.98	1.00	0.54	1.17	2.00	0.83	2.56				0.00	0.00
46.50	46.42	0.78	0.26	65.4	22.7	7.7	2.01		15.6	9.5	0.4	0.84	20.6	14.6	6.0	6.2	0.74	1.03	0.98	1.00	0.54	1.15	2.00	0.83	2.52				0.00	0.00
46.60	46.55	0.81	0.27	66.2	23.0	7.8	1.94		15.1	9.4	0.4	0.84	20.2	14.4	6.0	6.0	0.74	1.03	0.98	1.00	0.54	1.11	2.00	0.83	2.46				0.00	0.00
46.70	46.67	0.83	0.28	66.7	23.2	7.9	1.89		14.8	9.2	0.4	0.84	19.9	14.3	6.0	5.9	0.74	1.03	0.98	1.00	0.54	1.08	2.00	0.83	2.42				0.00	0.00
46.90	46.79	0.84	0.28	67.0	23.3	8.0	1.87		14.7	9.2	0.4	0.83	19.7	14.2	6.0	5.9	0.74	1.03	0.98	1.00	0.54	1.07	1.98	0.83	2.40				0.00	0.00
47.00	46.92	0.89	0.30	68.4	23.9	8.2	1.77		14.0	8.8	0.3	0.83	19.0	13.8	5.9	5.6	0.74	1.03	0.98	1.00	0.54	1.01	1.87	0.83	2.31				0.00	0.00
47.10	47.06	0.95	0.32	70.1	24.5	8.4	1.65		13.2	8.3	0.3	0.83	18.2	13.3	5.9	5.2	0.74	1.03	0.98	1.00	0.54	0.94	1.75	0.84	2.19				0.00	0.00
47.20	47.19	1.03	0.34	71.9	25.3	8.7	1.53		12.4	8.0	0.3	0.83	17.3	13.0	5.9	5.0	0.74	1.03	0.98	1.00	0.54	0.87	1.62	0.84	2.07				0.00	0.00
47.40	47.31	1.24	0.41	75.7	26.9	9.3	1.32		10.8	7.2	0.3	0.83	15.8	12.2	5.9	4.4	0.74	1.03	0.98	1.00	0.54	1.30		0.84	1.86				0.00	0.00
47.50	47.45	0.92	0.31	69.6	24.3	8.3	1.68		10.8	8.0	0.3	0.83	15.8	13.0	5.9	5.0	0.74	1.03	0.98	1.00	0.54	0.96	1.78	0.84	2.24				0.00	0.00
47.70	47.58	1.01	0.34	71.7	25.2	8.7	1.54		10.0	7.6	0.3	0.83	15.0	12.5	5.9	4.7	0.74	1.03	0.98	1.00	0.54	0.88	1.63	0.84	2.10				0.00	0.00
47.80	47.72	1.09	0.36	73.6	26.0	9.0	1.43		9.4	7.2	0.3	0.83	14.3	12.2	5.9	4.4	0.73	1.03	0.98	1.00	0.54	0.81	1.51	0.84	1.99				0.00	0.00
47.90	47.84	1.15	0.38	74.7	26.5	9.2	1.36		9.0	7.1	0.3	0.83	13.9	12.0	5.9	4.3	0.73	1.03	0.98	1.00	0.54	0.78	1.45	0.84	1.93				0.00	0.00
48.00	47.97	1.33	0.44	76.8	27.4	9.5	1.25		10.5	6.7	0.2	0.83	15.4	11.6	5.9	4.0	0.73	1.03	0.98	1.00	0.54	0.72	1.33	0.85	1.82				0.00	0.00
48.20	48.11	1.60	0.53	78.9	28.4	9.9	1.15		9.8	6.4	0.2	0.82	14.7	11.3	5.8	3.8	0.73	1.03	0.98	1.00	0.54	0.66	1.22	0.85	1.71				0.00	0.00
48.30	48.24	1.64	0.55	79.2	28.5	10.0	1.13		9.7	6.3	0.2	0.82	14.6	11.3	5.8	3.7	0.73	1.03	0.98	1.00	0.54	0.65	1.21	0.85	1.70				0.00	0.00
48.40	48.36	1.49	0.50	78.0	28.0	9.7	1.19		10.1	6.5	0.2	0.82	15.0	11.4	5.8	3.8	0.73	1.03	0.98	1.00	0.54	0.68	1.26	0.85	1.76				0.00	0.00
48.60	48.50	1.37	0.46	77.0	27.5	9.6	1.24		10.5	6.7	0.2	0.82	15.3	11.6	5.9	4.0	0.73	1.03	0.98	1.00	0.54	0.71	1.32	0.85	1.82				0.00	0.00
48.70	48.63	1.36	0.45	76.9	27.5	9.6	1.24		10.5	6.7	0.2	0.82	15.4	11.6	5.9	4.0	0.73	1.03	0.98	1.00	0.54	0.71	1.32	0.85	1.82				0.00	0.00
48.80	48.77	1.41	0.47	77.3	27.6	9.6	1.22		10.4	6.7	0.2	0.82	15.2	11.6	5.9	3.9	0.73	1.03	0.98	1.00	0.54	0.70	1.30	0.85	1.81				0.00	0.00
49.00	48.91	1.38	0.46	77.0	27.5	9.6	1.23		10.5	6.8	0.2	0.82	15.3	11.7	5.9	4.0	0.73	1.03	0.98	1.00	0.54	0.70	1.31	0.86	1.82				0.00	0.00
49.10	49.03	1.27	0.42	76.1	27.1	9.4	1.28		8.7	6.9	0.3	0.82	13.6	11.8	5.9	4.1	0.73	1.03	0.98	1.00	0.54	0.73	1.36	0.86	1.88				0.00	0.00
49.20	49.15	1.30	0.43	76.4	27.2	9.5	1.26		10.8	6.9	0.2	0.82	15.6	11.7	5.9	4.0	0.73	1.03	0.98	1.00	0.54	0.72	1.35	0.86	1.86				0.00	0.00
49.40	49.28	1.33	0.44	76.6	27.3	9.5	1.25		10.7	6.9	0.2	0.82	15.5	11.7	5.9	4.0	0.73	1.03	0.98	1.00	0.54	0.72	1.34	0.86	1.86				0.00	0.00
49.50	49.42	1.32	0.44	76.3	27.2	9.4	1.26		10.8	7.1	0.2	0.81	15.6	11.9	5.9	4.1	0.72	1.03	0.98	1.00	0.54	0.72	1.35	0.86	1.87				0.00	0.00
49.60	49.55	0.98	0.33	70.6	24.7	8.5	1.59		13.3	8.6	0.3	0.81	18.0	13.4	5.9	5.1	0.72	1.03	0.98	1.00	0.53	0.91	1.70	0.86	2.23				0.00	0.00
49.80	49.69	0.63	0.21	60.0	20.8	7.0	2.43		15.8	11.2	0.5	0.81	20.4	16.0	6.0	6.9	0.72	1.04	0.97	1.00	0.54	1.30	2.00	0.86	3.13				0.00	0.00
49.90	49.82	0.69	0.23	62.2	21.5	7.3	2.23		18.2	10.7	0.4	0.81	22.8	15.4	6.0	6.5	0.72	1.03	0.97	1.00	0.54	1.27	2.00	0.87	2.92				0.00	0.00
50.00	49.94	0.87	0.29	67.7	23.6	8.1	1.78		14.9	9.0	0.3	0.81	19.5	13.8	6.0	5.4	0.72	1.03	0.98	1.00	0.53	1.02	1.91	0.87	2.45				0.00	0.00

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LATERAL SPREAD

Data from B-13, distance from Boys Physical Ed Bldg

free faced conditions

$\log D_H = -16.713+1.532M-1.406\log R^*-0.012R+.592\log W+0.540\log T_{15}+3.413\log(100-F_{15})-.795\log(D50_{15}+0.1\ mm)$

D_H = estimated lateral ground displacement (in meters)
M = Moment Magnitude of EQ
R = distance from site to seismic energy source (in kilometers)

$R^* = R+R_0$

$R_0 = 10^{(0.89M-5.64)}$

W = free face ratio (height of free face divided by distance from toe of free face to point in question, in %)
T_{15} = cumulative thickness of granular layers with corrected blow counts less than 15 (in meters)
F_{15} = average fines content (-200) for granular materials included in T_{15}
$D50_{15}$ = average mean grain size for materials within T_{15}

M =	6.51	H =	15
R =	11.04	L =	140
R* =	12.46527937		
W =	0.1		
T_{15} =	0.305		
F_{15} =	12		
$D50_{15}$ =	0.15		

$\log D_H$ = -2.1503

D_H = 0.007075 meters

0.023205 feet
0.278455 inches

LATERAL SPREAD

Data from CPT-17, distance from temporary buildings

free faced conditions

$\log D_H = -16.713+1.532M-1.406\log R^*-0.012R+.592\log W+0.540\log T_{15}+3.413\log(100-F_{15})-.795\log(D50_{15}+0.1\ mm)$

D_H = estimated lateral ground displacement (in meters)
M = Moment Magnitude of EQ
R = distance from site to seismic energy source (in kilometers)

$R^* = R+R_0$

$R_0 = 10^{(0.89M-5.64)}$

W = free face ratio (height of free face divided by distance from toe of free face to point in question, in %)
T_{15} = cumulative thickness of granular layers with corrected blow counts less than 15 (in meters)
F_{15} = average fines content (-200) for granular materials included in T_{15}
$D50_{15}$ = average mean grain size for materials within T_{15}

M =	6.51	H =	15
R =	11.04	L =	20
R* =	12.46527937		
W =	0.8		
T_{15} =	0.18		
F_{15} =	25		
$D50_{15}$ =	0.15		

$\log D_H$ = -2.01061

D_H = 0.009759 meters

0.032008 feet
0.384099 inches

LATERAL SPREAD

Data from CPT-20, distance from portables

free faced conditions

$\log D_H = -16.713+1.532M-1.406\log R^*-0.012R+.592\log W+0.540\log T_{15}+3.413\log(100-F_{15})-.795\log(D50_{15}+0.1\ mm)$

D_H = estimated lateral ground displacement (in meters)
M = Moment Magnitude of EQ
R = distance from site to seismic energy source (in kilometers)

$R^* = R+R_0$

$R_0 = 10^{(0.89M-5.64)}$

W = free face ratio (height of free face divided by distance from toe of free face to point in question, in %)
T_{15} = cumulative thickness of granular layers with corrected blow counts less than 15 (in meters)
F_{15} = average fines content (-200) for granular materials included in T_{15}
$D50_{15}$ = average mean grain size for materials within T_{15}

M =	6.51	H =	15
R =	11.04	L =	8
R* =	12.46527937		
W =	1.9		
T_{15} =	0.09		
F_{15} =	29		
$D50_{15}$ =	0.15		

$\log D_H$ = -2.01883

D_H = 0.009576 meters

0.031408 feet
0.376902 inches

LATERAL SPREAD

Data from CPT-21, distance from classroom #4

free faced conditions

$\log D_H = -16.713+1.532M-1.406\log R^*-0.012R+.592\log W+0.540\log T_{15}+3.413\log(100-F_{15})-.795\log(D50_{15}+0.1\ mm)$

D_H = estimated lateral ground displacement (in meters)
M = Moment Magnitude of EQ
R = distance from site to seismic energy source (in kilometers)

$R^* = R+R_0$

$R_0 = 10^{(0.89M-5.64)}$

W = free face ratio (height of free face divided by distance from toe of free face to point in question, in %)
T_{15} = cumulative thickness of granular layers with corrected blow counts less than 15 (in meters)
F_{15} = average fines content (-200) for granular materials included in T_{15}
$D50_{15}$ = average mean grain size for materials within T_{15}

M =	6.51	H =	15
R =	11.04	L =	13
R* =	12.46527937		
W =	1.2		
T_{15} =	0.1		
F_{15} =	19		
$D50_{15}$ =	0.15		

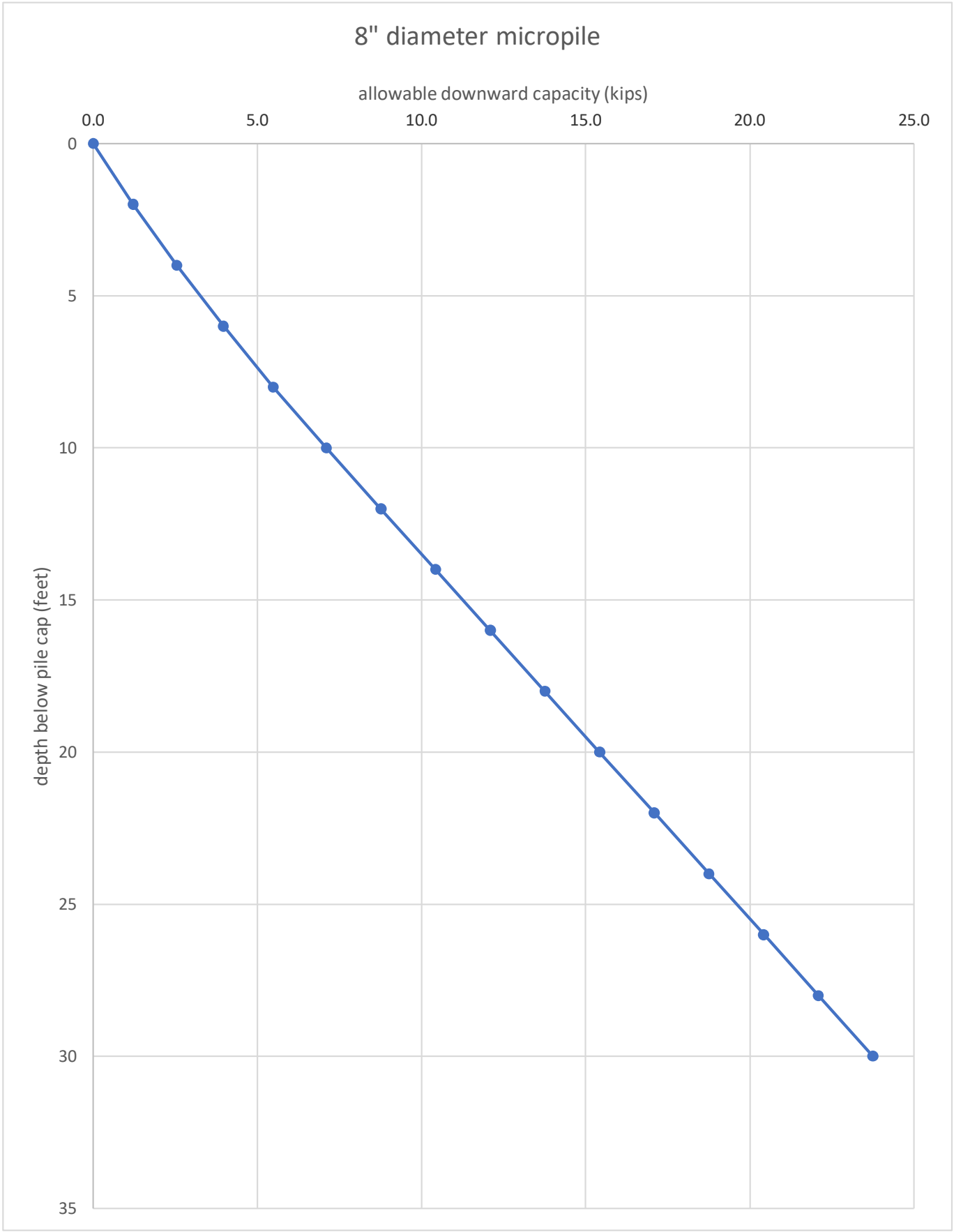
$\log D_H$ = -1.92363

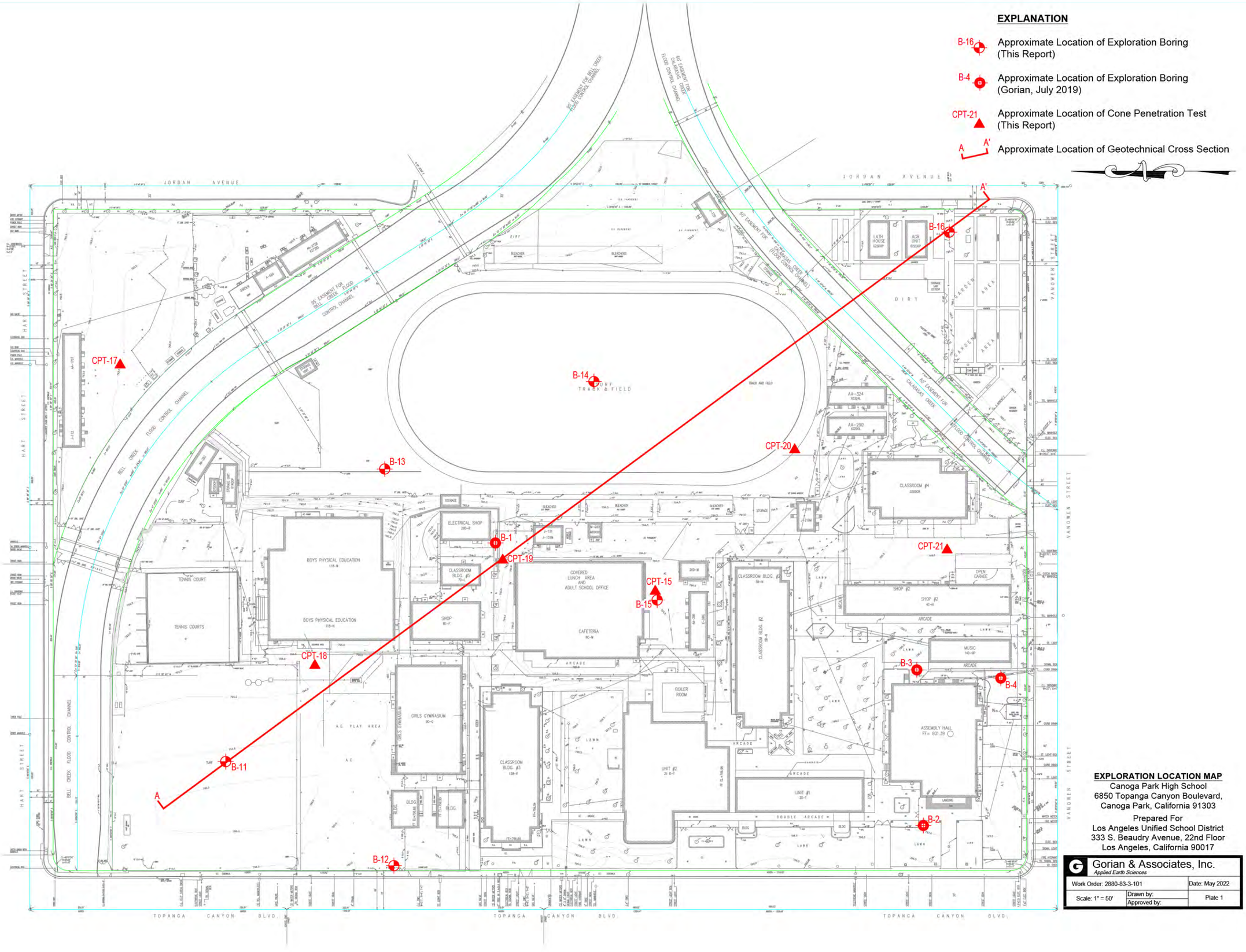
D_H = 0.011923 meters

0.039106 feet
0.469274 inches

APPENDIX D

MICROPILE CAPACITY

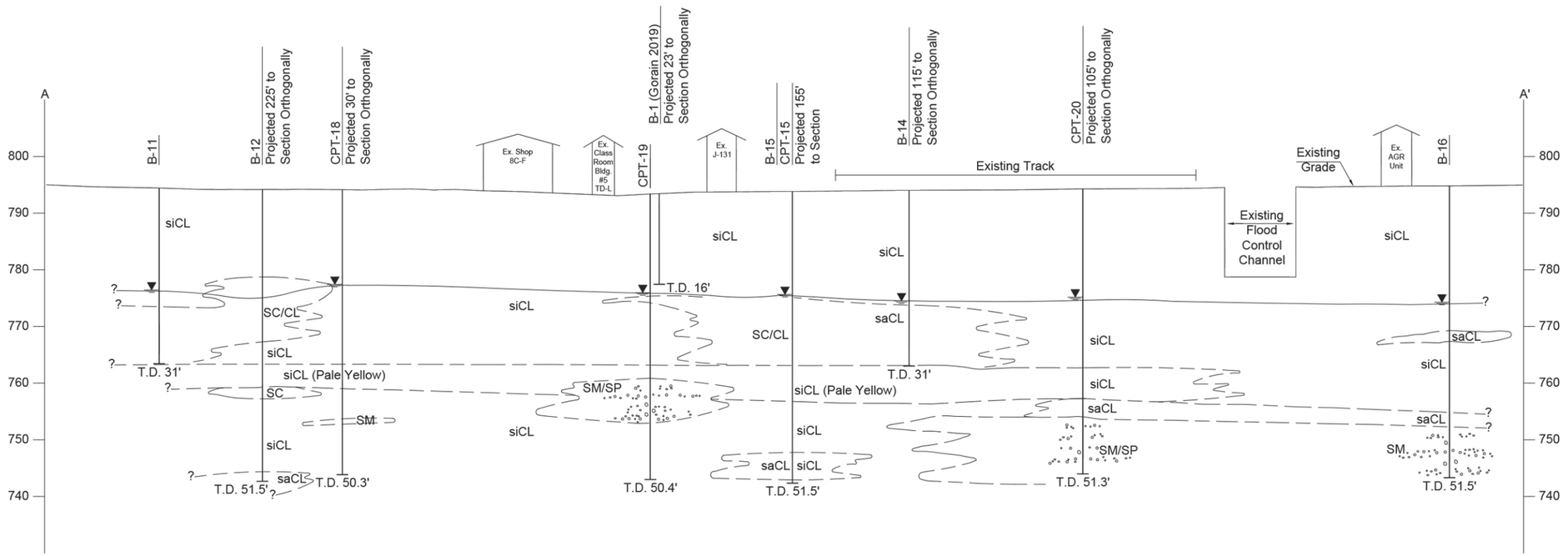

8" diameter micropile
allowable downward capacity (kips)
0.0
5.0
10.0
15.0
20.0
25.0
depth below pile cap (feet)
0
5
10
15
20
25
30
35



EXPLORATION LOCATION MAP
Canoga Park High School
6850 Topanga Canyon Boulevard,
Canoga Park, California 91303

Prepared For
Los Angeles Unified School District
333 S. Beaudry Avenue, 22nd Floor
Los Angeles, California 90017

Gorian & Associates, Inc. *Applied Earth Sciences*	
Work Order: 2880-83-3-101	Date: May 2022
Scale: 1" = 50'	Drawn by: / Approved by:
	Plate 1



EXPLANATION

siCL - Silty Clay
saCL- Sandy Clay
SC - Clayey Sand
SM - Silty Sand
SP - Poorly Graded Sand
▼ - Groundwater Level

GEOTECHNICAL CROSS SECTION A-A'

Note: Existing Grade Based on 50-Scale Plan Provided by LAUSD

Canoga Park High School
6850 Topanga Canyon Boulevard,
Canoga Park, California 91303

Prepared For
Los Angeles Unified School District
333 S. Beaudry Avenue, 22nd Floor
Los Angeles, California 90017

Gorian & Associates, Inc.
Applied Earth Sciences

Job No: 2880-83-3-101		Date: May 2022
Scale: Horizontal 1" = 50' Vertical 1" = 10'	Drawn by:	PLATE 2
	Approved by:	

APPENDIX F

Phase I Environmental Site Assessment

INTER-OFFICE CORRESPONDENCE
Los **A**ngeles **U**nified **S**chool **D**istrict
Office of Environmental Health and Safety

TO: Gregory Norden **DATE:** November 22, 2021
Project Development Manager
Asset Management, Facilities Planning and Development

FROM: Eric Longenecker, Contract Professional EBL
Site Assessment Project Manager
Office of Environmental Health and Safety

SUBJECT: **CANOGA PARK HIGH SCHOOL**
MAJOR MODERNIZATION (COLIN ID: 10372109)
PHASE I ENVIRONMENTAL SITE ASSESSMENT REPORT

This correspondence has been prepared by the Office of Environmental Health and Safety (OEHS) to document the suitability of the attached February 18, 2019 *PHASE I ENVIRONMENTAL SITE ASSESSMENT REPORT •FINAL• Canoga Park High School*, prepared by Eco & Associates, (the "Report") to guide future soil investigations associated with the Major Modification project at Canoga Park High School, 6850 Topanga Canyon Blvd., Canoga Park, CA 91303 (the "Site"). This determination is supported by the following:

- The Report states "Significant data gaps were not identified during the preparation of this Phase I ESA" [Environmental Site Assessment],
- Use of Site has not changed (i.e. still a school) since the creation of the Report, and
- Robust online sources (e.g. GeoTracker, EnviroStor, CERS, etc.) allow any significant environmental changes to off-site properties to be readily identified.

Should you have any questions or concerns regarding this correspondence, please contact Eric Longenecker at (805) 630-0633 or at eric.longenecker@lausd.net.

COPY: Project File

PHASE I ENVIRONMENTAL SITE ASSESSMENT REPORT

•FINAL•

Canoga Park High School
6850 Topanga Canyon Boulevard
Canoga Park, CA 91303

Assessor's Parcel No. 2138-001-900

Prepared for:
Office of Environmental Health and Safety
Los Angeles Unified School District
333 South Beaudry Avenue, 21-224-01
Los Angeles, CA 90017

Prepared by:
Eco & Associates, Inc.
18231 Irvine Boulevard, Suite 204
Tustin, CA 92780
Phone: (714) 289-0995
Fax: (714) 289-0965

Environmental Excellence

PHASE I ENVIRONMENTAL SITE ASSESSMENT REPORT

•FINAL•

Canoga Park High School
6850 Topanga Canyon Boulevard
Canoga Park, CA 91303

Assessor's Parcel No. 2138-001-900

Prepared for:

Office of Environmental Health and Safety
Los Angeles Unified School District
333 South Beaudry Avenue, 21-224-01
Los Angeles, CA 90017

Prepared by:

Eco & Associates, Inc.
18231 Irvine Boulevard, Suite 204
Tustin, CA 92780

Filmon Tesfaslasie
Project Geologist

Paul Peterson, PG #7508
Sr. Geologist



February 18, 2019

Project No: Eco-18-1231

TABLE OF CONTENTS

ABBREVIATIONS, ACRONYMS, & SYMBOLS vi
EXECUTIVE SUMMARY vii
1.0 INTRODUCTION 1
1.1 PURPOSE 1
1.2 SCOPE OF SERVICE 1
1.3 SIGNIFICANT ASSUMPTIONS, LIMITATIONS, DEVIATIONS, EXCEPTIONS, AND SPECIAL TERMS AND CONDITIONS 2
2.0 SITE DESCRIPTION 2
2.1 LOCATION AND TOPOGRAPHY 2
2.2 SITE IMPROVEMENTS 2
2.3 HISTORY 2
2.4 DESCRIPTION OF ADJACENT PROPERTIES 3
3.0 ENVIRONMENTAL SETTING 3
3.1 REGIONAL AND SITE GEOLOGY 3
3.2 REGIONAL AND SITE HYDROGEOLOGY 3
3.3 POTENTIAL OIL FIELD ISSUES EVALUATION 3
3.4 POTENTIAL GEOHAZARD EVALUATION 4
4.0 RECORDS REVIEW 4
4.1 ENVIRONMENTAL LIEN AND AUL SEARCH 4
4.2 CHAIN OF TITLE REVIEW 4
4.3 CITY DIRECTORIES 5
4.4 BUILDING PERMIT REPORT 5
4.5 ENVIRONMENTAL DATABASE REVIEW 6
4.6 AERIAL PHOTOGRAPH REVIEW 12
4.7 TOPOGRAPHIC MAP REVIEW 13
4.8 SANBORN® MAP REVIEW 14
4.9 LOCAL AGENCY FILES 15
4.9.1 LOS ANGELES COUNTY FIRE DEPARTMENT 15
4.9.2 LOS ANGELES REGIONAL WATER QUALITY CONTROL BOARD 16
4.9.3 DEPARTMENT OF TOXIC SUBSTANCES CONTROL 16
4.9.4 SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT 16
4.9.5 CALIFORNIA DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES 16
5.0 SITE RECONNAISSANCE 17
5.1 SITE OBSERVATIONS 17
5.2 ADJOINING PROPERTY OBSERVATIONS 19
5.3 USER PROVIDED INFORMATION 19
5.4 SPECIALIZED INFORMATION 20
5.5 COMMONLY KNOWN OR REASONABLY ASCERTAINABLE INFORMATION 20
6.0 PRELIMINARY ENVIRONMENTAL SCREENING FOR EXISTING SCHOOLS 21

6.1 PRELIMINARY ENVIRONMENTAL SCREENING 21
7.0 PHASE I ESA FINDINGS AND CONCLUSIONS 21
7.1 SITE BACKGROUND 21
7.2 RECOGNIZED ENVIRONMENTAL CONDITIONS 22
7.3 REGIONAL HAZARDOUS MATERIAL RELEASES 25
7.4 RECOMMENDATIONS 25
8.0 LIMITATIONS 26
8.1 SIGNIFICANT ASSUMPTIONS 26
8.2 LIMITATIONS AND EXCEPTIONS 26
8.3 SIGNIFICANT DATA GAPS 27
8.4 ADDITIONAL SERVICES 27
8.5 SPECIAL TERMS AND CONDITIONS 27
8.6 USER RELIANCE 27
9.0 ENVIRONMENTAL PROFESSIONAL QUALIFICATIONS AND SIGNATURE 27
10.0 REFERENCES 28

TABLES *(from report text)*

1 SUMMARY OF CITY DIRECTORIES 5
2 HAZARDOUS MATERIALS TRANSPORTED FROM SITE 6
3 EDR® SUMMARY OF PROPERTIES LOCATED UPGRADIENT AND WITHIN ¼ MILE OF THE SITE 7
4 AERIAL PHOTOGRAPH REVIEW SUMMARY 12
5 TOPOGRAPHIC MAP REVIEW SUMMARY 13
6 SANBORN® MAPS REVIEW SUMMARY 15
7 HAZARDOUS WASTE INVENTORY – YEAR 2012 16
8 SITE BUILDING DRAWINGS 20

FIGURES

1 REGIONAL SITE LOCATION MAP
2 SITE VICINITY MAP
3 SITE LAYOUT

APPENDICES

A ENVIRONMENTAL LIENS AND ACTIVITY USE LIMITATION SEARCH – PROPERTY TAX MAP
B ENVIRONMENTAL DATA RESOURCES REPORT
C AERIAL PHOTOGRAPHS, TOPOGRAPHIC MAPS, AND SANBORN® MAPS
D AGENCY CORRESPONDENCE
E SITE RECONNAISSANCE PHOTOGRAPHS
F SUPPORTING DOCUMENTS:
- *ASTM 1527-05 PHASE I ESA USER QUESTIONNAIRE*
- *INVENTORY OF CHEMICALS*

- *PRELIMINARY ENVIRONMENTAL SCREENING OF PROPOSED PROJECT AT EXISTING SCHOOL SITE*
- *USER PROVIDED INFORMATION*

ABBREVIATIONS, ACRONYMS, & SYMBOLS

µg/kg	micrograms per kilogram
µg/L	micrograms per liter
AP	Alquist-Priolo
APN	assessor's parcel number
Clrm Bldg	Class Room Building
DOGGR	Division of Oil, Gas, and Geothermal Resources
DTSC	Department of Toxic Substances Control
Eco	Eco & Associates, Inc.
EDR®	Environmental Data Resources
ESA	Environmental Site Assessment
HAZNET	Hazards Network
LARWQCB	Los Angeles Regional Water Quality Control Board
LAUSD	Los Angeles Unified School District
MTBE	methyl-tert-butyl ether
ND	non-detect
NFA	No Further Action
OCP	organochlorine pesticide
OEC	Other Environmental Condition
PCB	polychlorinated biphenyl
PCE	perchloroethylene
REC	recognized environmental condition
SCAQMD	South Coast Air Quality Management District
SF	square feet/foot
TBA	tert-butyl alcohol
TCE	trichloroethene
TPH-g	total petroleum hydrocarbons as gasoline
UST	underground storage tank
VOC	volatile organic compound

EXECUTIVE SUMMARY

Eco & Associates, Inc. (Eco) was retained by the Los Angeles Unified School District (LAUSD) to perform this Phase I Environmental Site Assessment (ESA) for the Canoga Park High School property located at 6850 Topanga Canyon Boulevard, Canoga Park, CA (hereafter, the "Site"). This Phase I ESA was conducted in general conformance with the scope and limitations of ASTM International, Standard E1527-13 (hereafter, ASTM E1527-13). The purpose of this assessment was to determine if recognized environmental conditions (RECs) were present within the Site. RECs are the presence, or likely presence, of hazardous material releases within a property. A review of the site conditions at the time of this assessment, the Site's background, and a summary of potential RECs at the Site are provided below.

SITE DESCRIPTION

At the time of this assessment, the Site was occupied by the Canoga Park High School, as part of the LAUSD. The school's buildings are mostly located on the Site's western side. The main building is two stories in height and of wood-frame construction with stucco exterior walls. The offices and classrooms within the building contained typical office and school furnishings.

Multiple buildings in the Site's western portion were being utilized as classrooms, workrooms, gymnasiums, an assembly hall, a cafeteria, and storage/utility rooms. These buildings were generally adjoined by asphalt pavement, landscaped areas, and athletic grounds. The asphalt-paved athletic ground areas had painted court lines and basketball hoops. There was also a baseball field and an athletic track with a grassy central field.

FINDINGS AND CONCLUSIONS

Historical Site Information:

Based on data collected during this assessment, the Site was undeveloped and vacant up to approximately 1914. In 1915, the Site was developed as Owensmouth High School with a single relatively large building (main classroom and administration building) located on the northwestern part of the property. Since 1931, the school has been referred to as Canoga Park High School.

In 1928, the school was comprised of a relatively large main building (main classroom and administration building) and three smaller buildings south of the main building located in the Site's northwestern portion including the Girls Gym building. The eastern half of the Site was primarily open land, with an agricultural grove in the southeast portion, and Bell Creek and Calabasas Creek, both creeks flowing toward the east. Between 1928 and 1938, two additional large school buildings, facing Topanga Canyon Boulevard and used as administration and for classrooms, were added in the southwest portion of the Site. Within that same period, the oval athletic track was moved to its current location in the central portion of the east half of the Site.

In 1939, the assembly hall was added on the Site's southwestern portion. Between 1952 and 1959, the original large school building and another small building, located in the northwest portion of the Site, were removed and converted to an athletic field. Between 1954 and 1958, the Cafeteria, the Boys Physical Education building, Class Room Building (Clrm Bldg) #2, Shop #2, and four storage buildings

located south of the oval athletic track field were added. In 1960 and 1968, Clrm Bldg #3, the Music Building, Storage Unit Building #014DOP, and Clrm Bldg #4 were added.

During the period between 1974 and 1979, a major remodeling occurred that included removal of the two large main school buildings located on the southwest portion of the Site facing Topanga Canyon Boulevard as well as the cement concrete walks connecting the buildings. These were replaced by two other large buildings referred to as building Unit #1 and building Unit #2.

Historic Recognized Environmental Conditions:

Based on a review of properties within the site vicinity and data made available during this assessment, there is a limited potential that contaminants from off-Site properties have impacted the soil or groundwater underlying the Site.

Four adjacent properties were found to be Historic Recognized Environmental Conditions (HRECs) for the subject Site:

1. **Former Thrifty Oil Station located at 6851 Topanga Canyon Blvd., Canoga Park, CA.** This property, located 139 feet west-southwest of the Site, reported a leaking UST in 1990. The property was subsequently remediated by soil excavation, soil-vapor extraction, and groundwater extraction. The case was closed in 2010 by the LARWQCB because the groundwater plume was stable and the subsurface lithology (tight silt and clay) limited the migration of contaminants. Only methyl-tert-butyl ether (MTBE) was detected in two monitoring wells (MW9 and MW10), as late as 2007and due to these factors, this property is considered an HREC for the Site.

2. **Topanga Car Wash located at 6829 Topanga Canyon Blvd., Canoga Park, CA.** This property is located across Topanga Canyon Blvd west of the Site. There was a reported leaking gasoline underground storage tank (UST) in 1989, Three monitoring wells (MW-16, MW-17, and MW-18) out of the seventeen wells installed, were placed on the subject Site, in the grass, across the street from the car wash property. The groundwater in these wells was reported to contain gasoline related constituents between the period of 2004 to 2014. The property was subsequently remediated by several methods including free product recovery, dual phase extraction, and soil vapor extraction. The LARWQCB determined that the contaminant plume was stable or decreasing in areal extent, that there was a low threat for the vapor-intrusion-to-air pathway, and there was a low threat for direct contact and outdoor air exposure and the case was closed in 2017. Due to these factors, this property is considered an HREC for the Site.

3. **Shell Service Station located at 22001 Vanowen Street., Canoga Park, CA.** This property, also located across Topanga Canyon Blvd west of the Site, reported a leaking UST in 1987. The property was subsequently remediated by soil vapor and groundwater extraction, as well as soil excavation. In 1991, seven groundwater monitoring wells (B-11 through B-17) were constructed by Shell on the Site along Topanga Canyon Blvd. In 1997, due to diminished concentrations of contaminants in the groundwater, these monitoring wells were abandoned. The LARWQCB granted closure for the Shell property in 2013. Due to these factors, this property is considered an HREC for the Site.

4. **Former Union Oil Service Station (Currently Red Carpet Car Wash) located at 6760 Topanga Canyon Blvd., Canoga Park, CA.** This property, located across Vanowen Street south of the Site has records listed from 1969 to 2014. The property reported a leaking gasoline UST in 1990. In March 2008, three monitoring wells (GW-7, GW-8, and GW-9) were installed on the subject Site in the north-northeast down-gradient direction—in the grass south of the Assembly Hall and across the street from the Union Oil Service Station. As late as April 2013, constituents

such as MTBE, total petroleum hydrocarbons as gasoline (TPH-g), and tert-butyl alcohol (TBA) were reported in these wells. The site was remediated using soil vapor extraction and the case was closed by the LARWQCB in September 2015. Due to these factors, this property is considered an HREC for the Site.

The above closure determinations indicate the properties were remediated or evaluated to be at low risk. However, does not assure that no impacts to the subject Site are present.

Potential Recognized Environmental Conditions:

This Phase I ESA has revealed no evidence of recognized environmental conditions in connection with the Site except for the following.

1. **An underground hydraulic lift** was located in the southern portion of Shop #2. This lift is now out of use. Shop #2 was previously used for a mechanical auto shop class. Based on a conversation with Mr. Moran, the underground hydraulic lift and the fluids remain in place and have not been removed from the Site. A clarifier was also located on the southern side of Shop #2 that appears to be associated with the former auto shop class. Additional information about the clarifier was not available.

   Due to the potential presence of hazardous material in the underground lifts and/or associated reservoir that could potentially be a source of contamination, the previous use of the class as an auto shop class, and the presence of the associated clarifier, this area is considered a potential REC. However, given the heavy nature of the hydraulic fluid and the limited reservoir capacity, the extent of a potential leak is expected to be limited to the soils below the building.

2. **The Vanowen Plaza Property** located at 22017 Vanowen Street, Canoga Park, CA, is currently being investigated under the oversight of the LARWQCB. Various dry cleaners occupied a unit in a building on this property from 1992 to 2009. Subsurface site investigations showed that the soil, soil vapor, and groundwater are contaminated with perchloroethylene (PCE), trichloroethene (TCE) and other volatile organic compounds (VOCs) as a result of release(s) from the dry-cleaning operations.

   Following the determination that the source of PCE and TCE, the dry-cleaning equipment was replaced with equipment installed in a spill containment pan capable of containing the volume of cleaning agents within the equipment. The dry-cleaning operations have since been discontinued (RCS 2014). In an effort to remediate the property, potassium permanganate was injected to the subsurface in 2015.

   In 2017, Office of Environmental Health Hazard Assessment (OEHHA) conducted vapor intrusion risk assessment and concluded that the risk estimates at the subject Site are less than one in one million and hazard indices are less than one.

   Base on this estimate, the potential health risks from vapor intrusion at the Site related with this release is below commonly accepted thresholds for schools and daycare. However, the property has not yet been granted NFA from the LARWQCB, and the PCE concentration in groundwater at subject Site has not been completely defined; therefore, the presence of PCE and other VOCs under the property is considered a potential REC for the Site pending the outcome of the regulatory process.

Other Recognized Environmental Conditions:

Other Environmental Conditions (OECs) were identified at the Site during this assessment. OECs, or potential RECs, are features or issues that, while being judged to have a relatively low probability of resulting in significant impact to the Site, should be considered in project planning and risk management. The OECs listed below were identified at the Site.

- **Lead-based Paint.** With the exception of newer portable buildings on the Site's, it is considered likely that the paint on the buildings contains, or formerly contained elevated lead concentrations. Due to slow deterioration with time, paint typically flakes off and accumulates in the adjoining soils. This can result in elevated lead concentrations in the soil. Note that the on-site buildings are mostly adjoined by asphalt pavement since 1959. As such, the potential that the soils underlying this pavement have been impacted with lead is considered relatively low. Elevated lead concentrations (greater than background levels), however, are possible in the planters that contain trees between the buildings, or any other unpaved areas adjoining the buildings.
- **Arsenic-Based Herbicide.** It was formerly common practice for the LAUSD to apply an arsenic-based herbicide to the soil immediately prior to paving with asphalt. As such, there is a potential that elevated arsenic concentrations (greater than background levels) are present in the soils immediately underlying the paved portions of the Site.
- **Organochlorine Pesticides.** It was formerly common practice for the LAUSD to apply termiticides around wooden structures at school sites as a means of pest control. As such, there is a potential that elevated OCP concentrations are present in site soils.
- **Polychlorinated Biphenyls.** Four transformers were documented at different locations at the Site: 1) adjacent to the former boiler room; 2) at the northeast corner of Clrm Bldg #3; 3) at the northeast portion of the Site and northwest of the Owensmouth High School compound, and 4) east of Clrm Bldg #2 and just west of the athletic track field. Due to the age of most of the transformers, it is considered possible that they may have previously contained polychlorinated biphenyls (PCBs). The locations of these transformers are identified in Figure 3.

  Transformer oil releases were not observed beneath, or adjacent to, any of the transformers reviewed at the time of this assessment. The transformers were located on concrete foundations that adjoined paved areas.
- **Radon.** The Site and its surrounding area are designated as high potential for indoor-radon levels above 4.0 picocuries per liter in recent alluvium (Radon Potential Zone Map for Southern Los Angeles County, California, California Geologic Survey, January 2005).

RECOMMENDATIONS

The following recommendations are based on the findings and conclusions presented above.

Lead-Based Paint. Prior to disturbing soil at the Site, it is recommended that representative soil samples be collected within the associated area(s) and analyzed for lead. The results of

this investigation should be used to determine if the lead concentrations in soil in these areas are a potential threat to human health.

Arsenic. Prior to disturbing any asphalt at the Site, it is recommended that representative soil samples be collected beneath the asphalt within the associated area(s) and analyzed for arsenic. The results of this investigation should be used to determine if the arsenic concentrations in soil in these areas are a potential threat to human health.

OCPs. Prior to their removal, it is recommended that representative soil samples be collected around wooden structures and analyzed for OCPs. The results of this investigation should be used to determine if the OCP concentrations in soil in these areas are a potential threat to human health.

Transformers. If future construction activities encroach into the immediate vicinity of pad-mounted transformers, it is recommended that the adjoining soils be assessed for the possible presence of PCBs prior to disturbing the soil around the transformer. The results of this investigation should be used to determine if there are detectable concentrations of PCBs in this soil and if the detectable PCBs are a potential threat to human health.

Hydrocarbons. Due to the previous use of the southern part of building Shop #2 as an auto shop, the presence of underground lifts, and an associated clarifier, this area was considered a potential REC. However, the extent of a potential leak is expected to be limited in the soils below the building due to the heavy nature of the hydraulic fluid. Assessment of the soils below the building and the clarifier for the possible presence of hydrocarbons is recommended if future construction activity planned will disturb the soil beneath the building.

Radon. Due to the high potential for indoor-radon levels above 4.0 picocuries per liter at the Site and its surroundings, it is recommended that radon mitigation measures be included in any future buildings or additions.

PHASE I ENVIRONMENTAL SITE ASSESSMENT REPORT

•FINAL•

Canoga Park High School
6850 Topanga Canyon Boulevard
Canoga Park, CA 91303

Assessor's Parcel No. 2138-001-900

1.0 INTRODUCTION

The Los Angeles Unified School District (LAUSD) retained Eco & Associates, Inc. (Eco) in order to perform a Phase I Environmental Site Assessment (ESA) for the Canoga Park High School located at 6850 Topanga Canyon Boulevard, Canoga Park, CA (hereafter, the "Site") (Figure 1). The Assessor's Parcel Number (APN) is 2138-001-900. This Phase I ESA was conducted in general accordance with the scope and limitations of ASTM International Standard No. E1527-13 (hereafter, "ASTM E1527-13").

1.1 PURPOSE

The purpose of this Phase I ESA was to identify apparent and potential sources of contamination that, by their association or proximity to the Site, could represent a recognized environmental condition (REC) as defined by ASTM E1527-13. A REC is defined as the presence, or likely presence, of hazardous substances or petroleum products in, on, or at a property due to any release to the environment, under any conditions indicative of a release to the environment, or under conditions that pose a material threat of a future release to the environment.

1.2 SCOPE OF SERVICE

The scope of work for this project included the following:

- Review of available information to describe the general geology and hydrogeology at the Site
- Review of historical aerial photographs and topographic maps
- Conduct a search of regulatory records for possible hazardous material handling, spills, storage, and production at the Site or in the site vicinity
- Reconnaissance of the Site and surrounding area
- Preparation of this report describing the findings and conclusions

1.3 SIGNIFICANT ASSUMPTIONS, LIMITATIONS, DEVIATIONS, EXCEPTIONS, AND SPECIAL TERMS AND CONDITIONS

This Phase I ESA, prepared by Eco at the request of LAUSD, was requested for one or more of the following reasons:

- Assistance in the determination of whether any immediate actions at the Site are necessary to comply with existing environmental laws or regulations
- Determination of the presence, or possible presence, of hazardous material releases from past on-site or off-site sources or activities

2.0 SITE DESCRIPTION

2.1 LOCATION AND TOPOGRAPHY

The Site comprises approximately 1,194,464 square feet (SF) or approximately 27.4 acres of land located at the street address of 6850 Topanga Canyon Boulevard, Canoga Park, CA (Figures 1 and 2); and its Los Angeles County APN is 2138-001-900. The Site elevation is 796 feet above sea level. The Site is bound by Vanowen Street on its southern side, Jordan Avenue on its eastern side, Hart Street on its northern side, and Topanga Canyon Boulevard on its western side. Two concrete-lined channels cross the Site. Bell Creek enters the Site at the northwest corner and Calabasas Creek enters the Site at the central portion of the southern boundary. The confluence of both creeks forms the beginning of the Los Angeles River at the central portion of the eastern site boundary.

2.2 SITE IMPROVEMENTS

At the time of this assessment, the Site was occupied by Canoga Park High School. The school's multiple single- and double-story buildings are primarily located on the Site's western half. The buildings appear to be generally of wood-frame construction with stucco siding. The offices and classrooms within these buildings contain typical office and school furnishings.

Multiple buildings in the Site's western portion were being utilized as classrooms, workrooms, gymnasiums, an assembly hall, a cafeteria, and storage/utility rooms. These buildings were generally adjoined by asphalt pavement, landscaped areas, and athletic grounds. The asphalt-paved athletic ground areas had painted court lines and basketball hoops. There was also a baseball field and an athletic track with a grassy central field.

2.3 HISTORY

Based on data collected during this assessment, the Site was undeveloped and vacant state up to approximately 1914. In 1915 the Site was developed as Owensmouth High School with relatively large building (main classroom and administration building) located on the northwestern part of the property. Since 1931, the school has been referred to as Canoga Park High School.

In 1928, the school was comprised of a relatively large main building (main classroom and administration building) and three smaller buildings south of the main building located in the Site's northwestern portion including the Girls gym building. The eastern half of the Site was primarily open land, with an agricultural grove in the southeast portion, Bell Creek and Calabasas Creek, both creeks flowing toward the east. Between 1928 and 1938 two additional large school buildings used as administration and classroom facing Topanga Canyon Blvd. were added in the southwest portion

of the Site. Within that same period, the oval athletic track was moved to its current location in the central portion of the east half of the Site.

In 1939 the assembly hall (14,523 square feet [SF] in the area) was added on the Site's southwestern portion. Between 1952 and 1959, the original large school building and other small building located in the northwest portion of the Site were removed and converted to a playing field. Between 1954 and 1958 buildings include the Cafeteria, Boys Physical Education, Class Room Building (CLRM BLDG) # 2 (28,210 SF), Shop #2 (10,124 SF), and four storage buildings located south of the oval athletic track field were added. In 1960 and 1968 CLRM BLDG # 3, Music Building, Storage Unit Building # 014DOP (914 SF), and CLRM BLDG # 4 (18,419 SF) were added.

During the period between 1974 and 1979, a major remodeling occurred, in which the two-large main school building located on the southwest portion of the Site facing the Topanga Canyon Blvd. and the cement concrete walks connecting the buildings were removed and replaced by other two large buildings referred to as Buildings Unit #1 (18,348 SF) and Unit #2 (29,540 SF).

2.4 DESCRIPTION OF ADJACENT PROPERTIES

Towards the south across Vanowen Street, is the Westfield Topanga Mall parking lot, a large commercial shopping center and Gas Depot Gas Station and Red-Carpet Car Wash. Toward the east side, across Jordan Avenue, is a residential neighborhood comprised of single-family homes and apartment complexes. Toward the north, across Hart Street, is a residential neighborhood comprised of two single-family homes, apartment complexes, and a sporting goods store. Towards the west across Topanga Canyon Boulevard, are multiple small commercial businesses, fast food restaurants, a Shell Gas Station, and the Topanga Car Wash.

3.0 ENVIRONMENTAL SETTING

3.1 REGIONAL AND SITE GEOLOGY

The Site is located in the western portion of San Fernando Valley within the San Fernando Hydrologic Subarea. The western portion of this subarea contains sediments derived from the surrounding hills. The source material has high clay content, averaging 75 percent clay, 5 percent sand, and 20 percent gravel. The valley fill extends to a depth of approximately 750 feet below ground surface (bgs). Underlying the valley fill is the non-water-bearing Modelo (Puente) Formation which consists of marine arkose conglomerates, sandstones, and siliceous and diatomaceous shale.

3.2 REGIONAL AND SITE HYDROGEOLOGY

Based on records search conducted on the Los Angeles County, Department of Public Works online well database at http://dpw.lacounty.gov/general/wells/#, the groundwater beneath the Site is located at a range of depth between 763 feet and 786 feet above sea level. This range is based on data obtained from two wells located approximately 0.5 miles northeast and 0.5 miles west of the Site, respectively. The groundwater flow direction beneath this property is expected towards the east, similar to the topographic gradient. Depth to groundwater has ranged historically from 15 to 20 feet bgs.

3.3 POTENTIAL OIL FIELD ISSUES EVALUATION

- The location of the nearest oil and gas field is 3.4 miles west of the Site; therefore, it is considered to present no direct potential environmental issues.

- There are no exploratory or production oil and gas wells (within 500 feet) of the Site; therefore, it is considered to present no potential issues.
- The Site is not located in a potential methane and hydrogen sulfide zone (Online-City of LA Methane Seepage District Map 2019).

3.4 POTENTIAL GEOHAZARD EVALUATION

- **Nearest Fault Zone.** The nearest fault zone is the Chatsworth Fault located approximately 2.88 miles northwest of the Site. This is a north-dipping reverse fault, approximately 20 km in length, trending from the southwest to the northeast. The most recent surface rupture was in the Late Quaternary with an unknown rupture frequency and slip rate (Online-Los Angeles Fault Map, Southern California Earthquake Data Center, 2019). There are no other known fault zones within 5 miles.
- **Seismic Shaking Hazard Potential.** The seismic shaking hazard potential could be severe due to the predicted probable magnitude of 6.0 to 6.8 along the Chatsworth Fault (Online-Los Angeles Fault Map, Southern California Earthquake Data Center 2019).
- **Liquefaction and Landslide Potential.** Based on the Seismic Hazard Zone Map (1998), the Site falls within areas where the historical occurrence of liquefaction or local geological, geotechnical, and groundwater conditions indicate a potential for permanent ground displacement. Landslide potential is no concern as the Site and surrounding area is on flat land.
- **Flooding Potential.** Flooding potential is considered low as the Site is located in an "area of minimal flood hazard" (FEMA Flood Map 2019). In addition, the site is well drained and is bound by two lined creeks, Bell and Calabasas. Any flood water would be directed to the creeks and channeled east of the Site into the Los Angeles River.
- **Radon.** For the Site and surrounding area, there is a high potential for indoor radon levels above 4.0 picocuries per liter in recent alluvium (Radon Potential Zone Map for Southern Los Angeles County, California, California Geologic Survey, January 2005).

4.0 RECORDS REVIEW

The following subsections present a review of records for the Site and describe information found or provided by these sources. The records reviewed included aerial photographs, topographic maps, street directories, standard environmental federal and state databases, and local agency files.

4.1 ENVIRONMENTAL LIEN AND AUL SEARCH

Environmental Liens and Activity and Use Limitation (AUL), an indication of potentially hazardous material releases, were searched for the Site. The Environmental Lien and AUL Search in Appendix A indicate environmental liens have not been recorded for the Site. In addition, there are no AULs identified for the Site.

4.2 CHAIN OF TITLE REVIEW

The historical Chain of Title for the Site at 6850 Topanga Canyon Boulevard, Canoga Park, CA 91303 (APN 2138-001-900), was requested of Environmental Data Resources (EDR®). A copy of this Chain

of Title report is provided in Appendix B. According to the county record's office, this property has been in the name of the LAUSD, Board of Education, since at least 1940. No other deeds vesting title in the property were found.

4.3 CITY DIRECTORIES

A search of the City Directories Abstract (Appendix B) received from EDR® included city, cross-references, and telephone directories at approximately five-year intervals for the years spanning 1940 through 2014. The listed site occupants for this time period are provided on the following table.

TABLE 1: SUMMARY OF CITY DIRECTORIES

PROPERTY ADDRESS	LISTED SITE OCCUPANT	YEAR
6850 Topanga Canyon Boulevard Canoga Park, CA	CANOGA PARK HIGH SCHOOL	1940
	CANOGA PARK SENIOR HIGH SCHOOL, LOS ANGELES CITY BOARD OF EDUCATION SENIOR HIGH SCHOOLS	1950
	CANOGA PARK HIGH SCHOOL, CANOGA PARK HIGH SCHOOL AGRICULTURE DEPT	1956
	CANOGA PARK HIGH SCHOOL, CANOGA PARK HIGH SCHOOL AGRICULTURE DEPT	1962
	CANOGA PARK HIGH SCHOOL	1965
	CANOGA PARK HIGH SCHOOL	1970
	CANOGA PARK HIGH SCHOOL	1980
	CANOGA PARK HIGH SCHOOL, CANOGA PARK HOSPITAL	1985
	CANOGA PARK HIGH SCHOOL	1991
	CANOGA PARK HIGH SCHOOL, COMMUNITY ADULT SCHOOL	2004
	LAUSD	2010
	LAUSD	2014

As noted on the table above, the Site has been occupied by Canoga Park High School since at least 1940. Though it is noted in a 1985 city directory listing, there is no additional corroborating documentation that Canoga Park Hospital occupied the Site at any point in time. In the 1956 and 1962 listing, the Canoga Park High School Agricultural Department is included. Agricultural use or training related to this may be an indicator that agricultural chemicals or products may have been stored or in use at the Site. Other than the listing for the Agricultural Department, occupants that typically use, store, or generate potentially hazardous materials were not listed at the Site's address.

4.4 BUILDING PERMIT REPORT

A report on the building department record's search of the Site and adjoining properties were obtained from EDR® and is contained in Appendix B. Only one building permit was found for the Site.

On April 7, 2006, an electrical permit was submitted by Jack's Electric to the City of Los Angeles, Department of Building and Safety.

4.5 ENVIRONMENTAL DATABASE REVIEW

Eco conducted a review of regulatory information prepared by EDR®. The search radii equaled or exceeded the criteria specified in ASTM E1527-13. A regulatory records search of this nature is based on information published by state and federal regulatory agencies and is used to evaluate whether the subject Site or near-vicinity properties are listed as having a past or present record of actual or potential environmental impact. Please note that regulatory listings include only those facilities that are known by the regulatory agencies at the time of publication. The EDR® report, dated November 30, 2018, is presented in Appendix B. The complete regulatory lists that were searched as part of this review are provided on pages 3 through 26 of the EDR® Executive Summary. A description of these databases is provided at the end of the EDR® report.

A map provided in the EDR® report shows the location of the subject Site and properties within the search distances defined by ASTM (see Appendix B, Radius Map). As noted in the EDR® report, the Site is listed in the Hazards Network (HAZNET) database for various materials. These materials were reported as follows:

TABLE 2: HAZARDOUS MATERIALS TRANSPORTED FROM SITE

Disposal Date	Volume Disposed (tons)	Material Disposed
1993	5.899	Asbestos-containing waste
1993	0.229	Waste oil and mixed oil
1994	0.2	Other organic solids
1994	0.2	Other inorganic solid waste
1994	3.371	Asbestos-containing waste
1998	26.969	Asbestos-containing waste
1999	0.5	Other organic solids
1999	0.7	Off-specification, aged or surplus organics
1999	0.175	Off-specification, aged or surplus organics
2000	14.32	Asbestos-containing waste
2001	0.1	Other organic solids
2001	0.22	Waste oil and mixed oil
2002	0.16	Other organic solids
2003	1.76	Polychlorinated biphenyls and material containing PCBs
2005	21.07	Asbestos-containing waste
2005	36.24	Asbestos-containing waste
2006	0.12	Other organic solids
2006	0.01	Laboratory waste chemicals

Disposal Date	Volume Disposed (tons)	Material Disposed
2006	0.02	Laboratory waste chemicals
2006	0.07	Laboratory waste chemicals
2007	10	Asbestos-containing waste
2008	7.2	Asbestos-containing waste
2008	15.6	Asbestos-containing waste
2008	1.8	Laboratory waste chemicals
2011	0.4	Asbestos-containing waste
2011	0.4	Asbestos-containing waste
2011	0.4	Asbestos-containing waste
2011	0.4	Asbestos-containing waste
2012	33.712	Not reported
2013	0.45	Not reported
2014	1.2	Asbestos-containing waste
2015	0.22481	Polychlorinated biphenyls and material containing PCBs
2015	0.46	Asbestos-containing waste
2015	0.3065	Other inorganic solid waste
2017	0.23	Asbestos-containing waste

PCB – polychlorinated biphenyl

There are eighteen (18) properties listed upgradient and within 1/4 mile of the Site that have, or have had, the potential to release hazardous materials into the subsurface soil and/or groundwater. Hazardous materials released at such properties would, due to their location, have the potential to impact the soil and/or groundwater underlying the Site. Impacted groundwater beneath off-site properties could migrate into or toward the subject Site. A description of these properties is listed in the following table.

TABLE 3: EDR® SUMMARY OF PROPERTIES LOCATED UPGRADIENT AND WITHIN ¼ MILE OF THE SITE

EDR® ID No.	Property/ Business Name & Address	EDR® Lists	Comments
B5	**VERNS AUTO & TRANSMISSION SERVICE** **6813 1/2 TOPANGA CANYON**	**EDR Hist Auto**	This property, located 90 feet southwest of the Site, was listed in the database from 1970 to 1975. Potentially hazardous material releases were not reported for this property. Due to these factors, this property is not considered a REC for the Site.

EDR® ID NO.	PROPERTY/ BUSINESS NAME & ADDRESS	EDR® LISTS	COMMENTS
B6-B10	TOPANGA CAR WASH 6829 TOPANGA CANYON	HIST CORTESE, EDR Hist Auto, UST, LUST, SWEEPS UST, FID UST	This property is located 137 feet southwest of the Site. There was a reported leaking gasoline UST in 1989, which could potentially impact an aquifer used for drinking water. A well installation workplan was submitted in 2010 and seventeen wells were installed. Three of these wells: MW-16, MW-17, and MW-18, were placed on the Site (Canoga Park HS), in the grass, across the street from the car wash property. The groundwater in these wells was reported to contain gasoline related constituents between the period of 2004 to 2014. The property was subsequently remediated by several methods including free product recovery, dual phase extraction, and soil vapor extraction. In 2017, a well destruction report was submitted to the LARWQCB and the case was closed. The LARWQCB had determined that the contaminant plume was stable or decreasing in areal extent, that there was a low threat for the vapor-intrusion-to-air pathway, and there was a low threat for direct contact and outdoor air exposure. Due to these factors, this property is considered an HREC for the Site.
C11-C15	Thrifty Oil Station 6851 Topanga Canyon	HIST CORTESE, SWEEPS UST, HAZNET, LUST, HIST UST, EDR HIST AUTO, FID UST	This property, located 139 feet west-southwest of the Site, reported a leaking UST in 1990. The property was subsequently remediated by soil excavation, soil-vapor extraction, and groundwater extraction. The case was closed in 2010 by the LARWQCB because the groundwater plume was stable and the subsurface lithology (tight silt and clay) limited the migration of contaminants. In February 1994, two wells (MW9 and MW10) were installed on the subject Site (Canoga Park HS), in the grass, across the street from the Thrifty Oil Station in a northeast down-gradient direction. The 2010 LARWQCB closure letter states that "MW9 and MW10 have shown [non-detect] ND for all fuel constituents since October 1994". However, the Geotracker groundwater monitoring well database (spanning from October 2001 to October 2009) shows concentrations of methyl-tert-butyl ether (MTBE) in well MW9 as late as November 2007 and in MW10 as late as June 2008. Due to these factors, this property is considered an HREC for the Site.

EDR® ID NO.	PROPERTY/ BUSINESS NAME & ADDRESS	EDR® LISTS	COMMENTS
B16-B23	Shell Service Station 22001 Vanowen Street	SWEEPS UST, FID UST, EMI, HIST AUTO, LUST, HIST CORTESE, HIST UST, HAZNET, RCRA SQG, FINDS, ECHO,	This property, located 166 feet southwest of the Site, reported a leaking UST in 1987. The property was subsequently remediated by soil vapor and groundwater extraction, as well as soil excavation. In 1991, seven groundwater monitoring wells (B-11 through B-17) were constructed by Shell on the Site along Topanga Canyon Blvd. In 1997, due to diminished concentrations of contaminants in the groundwater, these monitoring wells were abandoned. The LARWQCB granted closure for the Shell property in 2013. Due to these factors, this property is considered an HREC for the Site.
D24-D30	UNION OIL SERVICE STATION/RED CARPET CAR WASH 6760 TOPANGA CANYON	UST, HIST UST, SWEEPS UST, FID UST, EDR HIST AUTO, LUST, HIST CORTESE	This property, located 220 feet south-southwest of the Site has records listed from 1969 to 2014. The property reported a leaking gasoline UST in 1990 which could potentially impact an aquifer used for drinking water. The site was subsequently remediated using soil vapor extraction. The case was closed by the LARWQCB in September 2015. In March 2008, three monitoring wells (GW-7, GW-8, and GW-9) were installed on the subject Site in the north-northeast down-gradient direction—in the grass south of the Assembly Hall and across the street from the Union Oil Service Station. As late as April 2013, constituents such as MTBE, total petroleum hydrocarbons as gasoline (TPH-g), and tert-butyl alcohol (TBA) were found in these wells. Due to these factors, this property is considered an HREC for the Site.
B31, B41	Pacific Bell 22012 Vanowen Street	CA LUST, CA HIST CORTESE	This was a phone company property located 235 feet southwest of the Site. The property reported a leaking diesel UST in 1988 which could potentially impact an aquifer used for drinking water. No remediation activities were reported. There was no additional information available for this case. The case was closed in 1996 by the LARWQCB. Due to these factors, this property is not considered a REC for the Site.
E32 - E34	Pep Boys 7020 Topanga Canyon	HIST UST, SWEEPS UST, FID UST, RCRA NON GEN/NLR, FINDS, ECHO	Located 248 feet north-northwest of the Site, this auto parts/repair facility had a waste oil tank and is listed as a small quantity generator. No violations were found for this property. Due to these factors, this property is not considered a REC for the Site.

EDR® ID NO.	PROPERTY/ BUSINESS NAME & ADDRESS	EDR® LISTS	COMMENTS
B35-B40	White Angel Cleaners 22017 Vanowen Street	DRYCLEANERS, HIST CLEANER, RCRA-SQG, CA CPS-SLIC, FINDS, ECHO	The site is a single, three-story structure and is occupied by shops on the main floors and offices on the upper floors. The building was constructed in approximately 1963 and various dry cleaners occupied a unit in the building and operated a dry cleaning business from 1992 to 2009. A Phase I environmental site assessment (ESA) conducted in 2002 for property transaction indicated the existence of recognized environmental conditions. Subsurface site investigations conducted afterward in 2002, 2003 and 2007 showed that the soil, soil vapor, and groundwater are contaminated with perchloroethylene (PCE), trichloroethene (TCE) and other volatile organic compounds (VOCs) as a result of release(s) from the dry cleaning operations. The site investigations involved soil vapor survey, soil and groundwater sampling, and installation of groundwater monitoring wells. Groundwater monitoring has been conducted at the site since 2005 and site investigations were still underway as of 2015. In October 2015, the completion of remediation by injection of potassium permanganate was confirmed in a letter by the LARWQCB dated October 2016. This case is still open. Due to these factors, this property is considered a REC for the Site.
E42-E44	Bob Smith BMW 7050 Topanga Canyon	RCRA-SQG, CA LUST, CA SWEEPS UST, CA HIST UST, CA HIST CORTESE, CA HIST UST	This auto dealership, located 452 feet north-northwest of the Site, reported a leaking gasoline UST in 1992 during tank closure activities which affected the soil. No remediation activities were reported. There was no additional information available for this case. The case was closed in 1993 by the LARWQCB. Due to these factors, this property is not considered a REC for the Site.
E45-E46	Warner Auto Center 7039 Topanga Canyon	RCRA NonGen / NLR, FINDS, ECHO, CA AST	This auto repair property, located 454 feet north-northwest of the Site, is permitted for an AST on site. No violations were reported. Due to these factors, this property is not considered a REC for the Site.
E47	RADEMACHER, ROBERT 7056 TOPANGA CANYON	HIST AUTO	This auto service property, located 486 feet north-northwest of the Site, is listed as a gasoline service station. No violations were reported. Due to these factors, this property is not considered a REC for the Site.

EDR® ID NO.	PROPERTY/ BUSINESS NAME & ADDRESS	EDR® LISTS	COMMENTS
F49	Pacific Bell 6685 Topanga Canyon	RCRA-SQG, CA LUST, CA FID UST, FINDS, ECHO	*This was a phone company property, located 534 feet south-southwest of the Site, which reported a leaking gasoline UST in March 1989 which affected the soil. The abatement method involved excavation and disposal. Site assessment and pollution characterization activities began in October 1989. In May 1994, post-remedial action monitoring began. In December 1996, the LUST database file states "There was never a release from this site. All soil & groundwater samples tested non-detect". The case was closed in 1996 by the LARWQCB. Due to these factors, this property is not considered a REC for the Site.* The site was subsequently remediated and the case was closed in 1996.
51	Wade Rouss 7100 Topanga Canyon	CA HIST UST, CA HAZNET	This property, located 693 feet north-northwest of the Site, is listed as a tire service. No violations were reported. Due to these factors, this property is not considered a REC for the Site.
F52-F54	Target Store/CVS Pharmacy 6700 Topanga Canyon	RCRA-LQG, RCRA-CESQG, FINDS, ECHO,	This department store, located 693 feet south-southwest of the Site, is listed as a small and large quantity generator. No violations were reported. Due to these factors, this property is not considered a REC for the Site.
F55-F57	Pacific Bell 6685 Topanga Canyon	CA SWEEPS UST, CA UST, CA SWEEPS UST, CA HIST CORTESE	This utility property, located 714 feet south-southwest of the Site, is permitted for a UST on site. No violations were reported. Due to these factors, this property is not considered a REC for the Site.
G58	GERARD DESIGN 7103 OWENSMOUTH AVE	RCRA-SQG, FINDS, ECHO, CA HAZNET	This facility, located 805 feet north-north-east of the Site, is listed as a small quantity generator. No violations were reported. Due to these factors, this property is not considered a REC for the Site.
G59	Lloyds Place Auto Repair 7103 OWENSMOUTH AVE	RCRA-SQG, FINDS, ECHO	This auto repair facility, located 805 feet north-north-east of the Site, is listed as a small quantity generator. No violations were reported. Due to these factors, this property is not considered a REC for the Site.
I63-I68	TOP OF THE LINE CLEANERS 7138 OWENSMOUTH AVE	CA DRYCLEANERS, RCRA NonGen / NLR, FINDS, ECHO, CA EMI	This dry cleaning facility, located 1,176 feet north-northeast of the Site, is listed for having chemicals related to the dry cleaning industry. No violations were reported. Due to these factors, this property is not considered a REC for the Site.

Note: Table Information Source: These properties and a description of the acronyms above are identified in Appendix B, EDR® Report, Radius Map and GeoCheck, Executive Summary, beginning on Page 5.

Based on a review of the properties in the EDR® database report, there are indications that contaminants released from the properties listed above could impact the soil and/or groundwater underlying the Site.

4.6 AERIAL PHOTOGRAPH REVIEW

The following aerial photographs were reviewed in order to assess land use over time and look for evidence of potentially hazardous material storage, usage, and/or disposal areas. Copies of these photographs are provided in Appendix C.

TABLE 4: AERIAL PHOTOGRAPH REVIEW SUMMARY

AERIAL PHOTO DATE	OBSERVATIONS
1928	In the 1928 aerial photograph, a narrow, tree-lined street (Vassar Avenue) divides the center of the Site into western and eastern halves. The western half of the Site appears in use as a school. A relatively large building (main classroom and administration building) and three smaller buildings south of the large building are visible in the Site's northwestern portion. South of the smaller buildings appears an open field and an oval unpaved athletic track. The eastern half of the Site is primarily open land, with an agricultural grove in the southeast portion, and both Bell Creek and Calabasas Creek naturally flowing toward the east. Adjacent land, both south and west of the Site, appears to be agricultural land. The land north and east of the Site is a sparsely populated residential neighborhood with streets in place. The Site perimeter streets (Hart Street, Jordan Avenue, Vanowen Street, and Topanga Canyon Boulevard) are already present.
1938	Two additional large school buildings appear in the southwest portion of the Site. The oval athletic track has been moved to its current location in the central portion of the east half of the Site. A relatively small building appears in the northeast portion of the Site. Surrounding land appears similar to that observed in the 1928 aerial photograph.
1947	One additional large building (Assembly Hall) and two smaller school buildings appear in the southwest portion of the Site. Surrounding land appears similar to that observed in the 1938 aerial photograph.
1952	Additional small school buildings appear in the west and south portions of the Site. Residential development has expanded west, north and east of the Site. Bell and Calabasas Creeks have been converted to controlled channels. Vanowen Street appears to be paved.
1959	Additional small and medium-sized school buildings appear in the west and south portions of the Site. The original large school building in the northwest portion of the Site (apparent in the 1928 photograph) has been removed and a playing field is present in the location. The building that was in the northeast portion of the Site has been removed and the area has been converted to a paved parking lot and a building in the location of the current boy's Physical Education Building is visible. Residential development has expanded southwest, west, north, and east of the Site. A large industrial facility appears downgradient, southeast of the Site. Open agricultural land still appears south of the Site. Bell and Calabasas Creeks have been concrete-lined. The beginning of the concrete-lined Los Angeles River appears east of the Site. The first signs of commercial business along Topanga Canyon Boulevard appear immediately west of the Site. All Site perimeter streets are paved.
1967	Additional small school buildings appear in the northeast and southeast portions of the Site. The Topanga Plaza shopping mall appears south of the Site. Additional commercial businesses along Topanga Canyon Boulevard appear immediately west of the Site.

AERIAL PHOTO DATE	OBSERVATIONS
1970	Similar to 1967. A few small buildings have been removed from the northeast portion of the Site.
1979	In the southwest portion of the Site, a large main building facing Topanga Canyon Blvd. has been replaced by two large buildings.
1983	Similar to 1979. A few small buildings have been removed from the northwest and northeast portion of the Site.
1989	Similar to 1983. A few small buildings have been added to the northeast portion of the Site.
1994	Similar to 1989.
2002	Similar to 1994. A few small buildings have been added to the northeast portion of the Site.
2005	Similar to 2002.
2009	Similar to 2005.
2012	Similar to 2009.
2016	Similar to 2012.

As noted above, indications of potential contaminant sources, such as landfills, large aboveground tanks, oil wells, or pipelines, were not visible within the Site. Other than the small agricultural areas identified, there were no observable potential RECs within the Site or the adjoining properties in the aerial photographs dating between 1928 and 2016.

4.7 TOPOGRAPHIC MAP REVIEW

Topographic maps dating between 1903 and 2012 were reviewed as part of this assessment. These maps are provided in Appendix C of this report. Descriptions of these maps are provided in the table below. As noted on these maps, structures of concern, such as pipelines, oil wells, and landfills are not shown within the Site or immediate site vicinity.

TABLE 5: TOPOGRAPHIC MAP REVIEW SUMMARY

TOPO DATE	OBSERVATIONS
1903	The Site is shown as open land with no building structures within the Site. Canoga Avenue and the Southern Pacific Rail Road are shown to the east, Sherman Way and the Pacific Electric Rail Line to the North, Topanga Canyon Boulevard to the west, and Calabasas Creek to the South. A few structures are shown approximately ½ mile northeast of the Site, near the intersection of Sherman Way and Canoga Avenue.
1925	The main school building is shown at the southeast corner of Topanga Canyon and Hart Street. Vanowen Street is shown south of the Site. Residential streets appear west, north, and east of the Site. Vassar Avenue is shown crossing the Site from north to south. Residential and commercial development appears north of the Site.
1927, 1928	Similar to 1925. No change is shown at the Site or the immediate site vicinity.
1929	No information was provided on the EDR® map image.

TOPO DATE	OBSERVATIONS
1932, 1933	More on-site buildings are shown. Additional streets and structures appear northeast of the Site.
1944	Similar to 1932. Additional streets and structures appear north and east of the Site. Eton Avenue School appears east of Canoga Avenue.
1947	Similar to 1944. No change is shown at the Site or the immediate site vicinity.
1952	Additional small school structures appear on the Site. Additional streets are shown west of the Site. Our Lady of the Valley school appears north of the Site. Chatsworth Creek, Bell Creek, Calabasas Creek, and the Los Angeles River are shown for the first time.
1967	Additional large school structures appear on the Site and several buildings on the northern portion of the Site appear removed. Significant residential development appears west of the Site. Large commercial and industrial complexes appear south and southeast of the Site.
2012	The topo map only shows roadways and elevation contours. Building structures and the use of properties are not shown.

As noted above, there was no potential RECs shown within the Site or the adjoining properties in the topographic maps dating between 1903 and 2012.

4.8 SANBORN® MAP REVIEW

Three Sanborn® Maps were found for the Site and site vicinity. Copies of these maps are provided in Appendix C.

TABLE 6: SANBORN® MAPS REVIEW SUMMARY

SANBORN® MAP DATE	OBSERVATIONS
1919	The former Main Owensmouth High School building is shown on the southeast corner of Topanga Canyon and Hart Street. Former Vassar Avenue bisecting the Site is shown east of the building.
1927	South of the main building, nine additional smaller structures are shown including a gymnasium and a manual arts building.
1932	The former main Owensmouth High School building appears similar to 1927 except for the small classroom added on the southwest of the main school building. The former main Canoga Park High School Administration Building, classroom, and former boiler room is shown on the southwest portion of the Site,

As noted above, the property has been in use as a school since on or before 1919. Indications of potential contaminant sources such as underground tanks, landfills, large aboveground tanks, oil wells, or pipelines, were not identified within the Site. There were no observable potential RECs within the Site or the adjoining properties in the Sanborn® maps dating between 1919 and 1932.

4.9 LOCAL AGENCY FILES

Environmental records pertaining to on-site or near-vicinity hazardous material sources and/or releases were obtained from the following sources. A summary of these records follows in the subsections below;

- Los Angeles County Fire Department (LACFD)
- Los Angeles Regional Water Quality Control Board (LARWQCB-Geotracker)
- The state of California, Department of Toxic Substances Control (DTSC)
- South Coast Air Quality Management District (SCAQMD), and
- California Division of Oil, Gas, and Geothermal Resources (DOGGR)

4.9.1 LOS ANGELES COUNTY FIRE DEPARTMENT

Records for the Site were requested from the LACFD. The LACFD maintains records pertaining to underground storage tanks, industrial waste, stormwater, and hazardous material releases. Public records received from LACFD regarding the Site are attached in Appendix D. The type of record obtained and the summary is listed below.

Consolidated Contingency Plan for Canoga Park High School prepared by LAUSD dated March 6, 2012. The contingency plan indicates the following relevant information:

- Presence of hazardous material onsite at or above 55 gallons for liquids, 500 pounds for solids, or 200 cubic feet for compressed gases but not at or above a threshold amount established by a Certified Unified Program Agency (CUPA).
- No underground storage tanks (USTs)
- No above ground storage tanks (ASTs)

- No regulated substances stored at the site at greater than the threshold quantities established by the California Accidental Release Program (Cal ARP).

Unified Program (UP) Form – Hazardous Material Inventory – chemical Description, 2012 Reporting Year. The inventory indicates the presence of the following chemical information.

TABLE 7: HAZARDOUS WASTE INVENTORY – THE YEAR 2012

CHEMICAL NAME	OBSERVATIONS	MAXIMUM PER YEAR
Gasoline	55 gallons	Not available
Waste Asbestos	1 cubic yard	2 cubic yards

LACFD – Inspection Report dated April 11, 2013

- No notice of violation listed

An inspection report dated November 15, 2016

- The facility contains limited amounts of hazardous waste (including caustic alkali liquids, waste formaldehyde solution, waste flammable liquids, waste toxic liquids, and waste oxidizing liquids) from the science lab and universal waste (fluorescent light bulbs and used batteries).
- No notice of violations listed.

4.9.2 LOS ANGELES REGIONAL WATER QUALITY CONTROL BOARD

Records from the LARWQCB were searched via their online search program at http://geotracker.swrcb.ca.gov. The properties listed in their database are known to have released potentially hazardous materials into the underlying soil and groundwater. The Site was not listed within the LARWQCB files (Appendix D). However, adjacent properties were found in the Geotracker database and are discussed in Section 7.2.

4.9.3 DEPARTMENT OF TOXIC SUBSTANCES CONTROL

The DTSC records were searched using their map interface program at http://www.envirostor.dtsc.ca.gov/public. A search of this database revealed no DTSC-regulated properties (properties that use and/or have documented contaminant releases) within the ¼ mile and upgradient of the Site. In a letter response from the DTSC, dated December 6, 2018, the DTSC stated that no records were found for the Site (Appendix D).

4.9.4 SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

Several records were found which may include permits, notice of violations, asbestos removal records, and complaints in the SCAQMD files (Appendix D). The Site was also searched via the online search program at http://www.aqmd.gov. Notice of potential contaminant sources, such as underground fuel tanks, were not identified in the SCAQMD files.

4.9.5 CALIFORNIA DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

Oil well maps provided by DOGGR were searched via their search program at https://maps.conservation.ca.gov/doggr/wellfinder. Based on a review of the maps provided by DOGGR, there are no oil wells located at the Site or in the Site vicinity.

5.0 SITE RECONNAISSANCE

On December 03, 2018, representatives of Eco (Mr. Filmon Tesfaslasie) and LAUSD (Mr. Eric Longenecker) visited the Site in order to assess its current utilization and visually search for indication of surface and subsurface contamination. Mr. Carlos Moran (Canoga Park High School Plant Manager) and Mr. Ralph Wilkinson (Canoga Park High School Chemical Safety Coordinator) were interviewed during the Site visit. Photographs taken during the site visit are included in Appendix E. A user questionnaire was filled out and is included in Appendix F. Observations made during the site reconnaissance are presented below.

5.1 SITE OBSERVATIONS

The Site is bisected by Bell Creek in the north and Calabasas Creek in the south (Figure 3). The greater portion of the Site, which is located west of the confluence of the Bell Creek and Calabasas Creek was occupied by Canoga Park High School. The number and description (construction year, size, type, and others) of the buildings in the Canoga Park High School is included in Appendix A.

The portion north of Bell Creek was occupied by Owensmouth High School, and the area south of the Calabasas Creek was used for agricultural purposes. Both the Bell Creek and Calabasas creek were concrete-lined and open from the top channels at the Site. When the two creeks are joined, they drain west to the Los Angeles River (Photo Nos. 3 and 4). The following bullets are selected details of the observation made during the site walk of the School Campus.

- The offices and classrooms within the Main Buildings Unit #1, Unit #2, and Clrm Bldg #2, and Clrm Bldg #3 contained typical office and school furnishings. Most of the areas adjoining the buildings were covered with asphalt or concrete, except for areas covered with plants or playground (turf). Laboratory chemical storage rooms were located on the second floor of Unit #2 in rooms 221, 226, and 228 (Photo Nos. 5 through 8). The laboratory chemicals were labeled and stored in shelves. The chemicals inventory and storage activities are coordinated by Mr. Ralph Wilkinson. The inventory of the chemicals stored in those rooms is attached in Appendix F. No potential contaminant releases were identified in these areas.
- Janitor's closets were also located in each of the building. The janitor closets stored domestic cleaning detergent and other cleaning tools (Photo 9). The former boiler room located east of the building Unit #2 was used as the office of the plant manager. No active or indications of historic releases were observed in this building.
- A Ceramic workshop located in Room 315A in Clrm Bldg #3 contained a non-operational kiln. A clarifier that appears to be attached to a ceramic workshop was also located on the north side of the building (Photo 10 and Figure 3). Lead or other heavy metal may have been used as colorant or glazes for ceramic works and could be of potential environmental concern. However, no contaminant sources associated with this workshop and/ or releases were recorded or observed during the site visit.
- The presence of a former underground hydraulic lift (hoist) in the southern portion of the Shop #2 building located east of the Assembly Hall and the Music building was discussed with the Plant Manager (Mr. Moran). This room was previously used as a mechanical auto shop class. Based on the telephone conversation with Mr. Moran, the underground hoists are still in the building and may contain hydraulic fluids. A clarifier was also located on the southern side of the Shop #2 that appears to be associated with the former auto shop. Currently, this space is used as an Engineering

and Design Lab (Photo 11 and 12; Figure 3). Due the previous use of this building as auto shop class and the presence of unground lifts that could potentially be a source of contamination, the area around this room/ class and the associated clarifier are considered a REC.

- Four transformers were located during this Site walk. The locations of the transformers as shown in Figure 3 are: 1) adjacent to the former boiler room (Photo 13); 2) northeast corner of Clrm Bldg #3 (Photo 14); 3) northeast portion of the Site in the Owensmouth High School compound (Photo 15); and 4) east of Clrm Bldg #2 and just west of the playground turf (Photo 16). The latter is the main transformer at the Site housed in an enclosed area. Access to this enclosed area was not possible during the Site walk. The other three transformers were mounted on a concrete pad and no evidence of active or historic leaks was observed around the transformers.

- Landscape tools and fuel containers were encountered at the Storage Unit (Building ID #26267) located northeast of the Boys Physical Education Building (Photo 17; Figure 3). The storage unit paved with concrete container number of gasoline string trimmer (Photo 18), a lawn mower, 5-gallon diesel container (Photo 19), gear lubricant (Photo 20), refill funnel, and some other hand-held tools stored on the floor and on wooden tables/ benches. Minor stains of hydrocarbon were observed in areas where the gasoline trimmers were stored (Photo 18), however, these stains/ leaks noted were minimal and not likely to have permeated through the concrete pavement.

- A relatively small concrete building (approximately 8 feet by 8 feet) that has two rooms was located on the northeast portion of the Site - in the Owensmouth High School area (Photo 21; Figure 3). One of the rooms (the eastern room) was used as storage and dispenser of gasoline. During the Site walk, two 55-gallon drums containing gasoline were observed in the room. The drums were labeled as "gasoline" in white paint and one of the drums was fitted with hand operated drum pump (Photo 22). “Flammable” label was also posted on the entrance door of the room. No evidence of active or historic leaks was observed around the building.

  The western room and another relatively smaller concrete building adjacent to this building (Photo 23) were not accessible during the Site walk, and therefore the content in those rooms was not identified. However, it is most likely those units store or used to store hazardous materials. Per Mr. Moran, those rooms have not been accessed or opened for at least 15 years. No evidence of active or historic leaks was observed around those units.

- Destroyed soil vapor and groundwater monitoring wells surface completions were observed in the southwest portion of the Site (Photo 24: Figure 3). Per Mr. Longenecker and review of documents, those destroyed wells were part of the assessment and monitoring to evaluate and determine the potential release of the petroleum hydrocarbon from the adjacent properties located in the southwest of the Site. Detail discussion of the impact of the adjacent property is discussed in Section 9.2 and in the following section.

- None of the following were observed at, or immediately adjacent to, the Site:
  - Fill ports or vent pipes related to underground storage tanks
  - Above ground storage tanks

- Groundwater monitoring wells and/or vadose zone wells
- Pools of potentially hazardous substances
- Wastewater discharge pipes
- Ponds, pits, sumps, or other underground waste disposal areas
- Unusual or noxious odors

5.2 ADJOINING PROPERTY OBSERVATIONS

A summary of single-family dwellings and apartments and small commercial businesses are as follows:

- **Jordan Avenue** is located along the Site's eastern side (Photo No. 25). Residential apartment buildings and small businesses are located immediately east of the Site and this avenue. The small business, homes, and buildings within these properties are adjoined by well-maintained landscaped areas and paved areas. Potential contaminant sources and/or releases are not observed within the avenue or residential properties located immediately east of the Site.
- **Hart Street** is located along the Site's northern side (Photo 26). Residential apartment buildings and dwellings are located immediately north of the Site and this street. Potential contaminant sources and/or releases are not observed within the avenue or residential properties located immediately east of the Site.
- **Vanowen Street** is located along the Site's southern side (Photo 27). The Western Topanga Mall parking lot is located immediately south of the Site and this street. Gas Depot gas station and Red-Carpet Car Wash are also located immediately south of the Vanowen Street and southwest of the Site (Photo 28). Due to the proximity of the gas station to the Site and previous history of release, the gas station may potentially impact the subject Site.
- **Topanga Canyon Boulevard**, three lanes each direction with a painted median, is located along the Site's western side (Photo 29 and 30). The properties located immediately west of the Site and Topanga Canyon Boulevard are occupied by Shell Gas Station (Photo 31), Topanga Car Wash (Photo 32), and other small commercial businesses. Vanowen Plaza property where former dry cleaning was located is located west of the Shell Gas Station. Both the Shell Gas Station and Vanowen Plaza Property may impact the subject Site, due to their proximity to the subject site and previous history of release. Details of the potential impact of this gas station are discussed in Section 7.2.

5.3 USER PROVIDED INFORMATION

LAUSD provided a scope of work and work authorization to conduct this Phase I ESA at the Site. The following information was provided by LAUSD (Appendix F):

- Tabulated information regarding the size, type, and name of the existing building (Appendix F)
- Multiple historic building plans were prepared between 1924 and 1986.

TABLE 8: SITE BUILDING DRAWINGS

YEAR OF DRAWING	DRAWING TITLE AND DESCRIPTION
1924	Former Owensmouth Main High School Building showing Floor Plan, Foundation Plan, of the Main Building and Shop Building
1925	Floor and Foundation Plan of Gymnasium
1938	Index to Drawing - New Assembly Hall
1945	Grading and Paving Plan of the Site.
1948	Plot Plan of the Electrical Shop Building
1953	Plot Plan – 1952 Type Classroom and Sanitary Buildings
1957	Plot Plan Plumbing – show underground piping (mainly gas line)
1957	New Classroom and Industrial Art Buildings and Alteration to Shop Building (Shop # 2) – Grade Plan for Rock and Oil Pavement.
1959	Addition of New Classroom building (Clrm Bldg #3) connected w
1959	New Classroom Building – Music Building and Connecting arcades
1960	Maintenance – Kiln Hood and Kiln Room Air Supply Installation
1975	Demolishing Plan – show as-built plan layout of the school similar to the present. Planned renovation work: existing paving removal plan around the east of Clrm Bldg #2, and east and south of Assembly Hall is shown
1984	Boiler Modernization Program showing two boilers at the Boys Physical Education Bldg., and one boiler in the Girls Gymnasium Bldg.
1986	Plot Plan showing maintenance work at Assembly Hall, New Building, and others

Underground structures such as USTs and hydraulic hoists were not identified in any of the site drawings.

5.4 SPECIALIZED INFORMATION

No specialized knowledge of RECs or Other Environmental Conditions (OECs) or potential RECs; see Section 7.2 below) associated with the Site was reported to Eco by the LAUSD or other site representatives.

5.5 COMMONLY KNOWN OR REASONABLY ASCERTAINABLE INFORMATION

Eco was not provided with any commonly known knowledge or reasonably ascertainable information about the Site that would constitute a REC. However, the information listed below is considered common to many LAUSD properties based on past maintenance and construction practices:

Lead-based Paint. With the exception of newer portable buildings on the Site's, it is considered likely that the paint on the buildings contains, or formerly contained elevated lead concentrations. Due to slow deterioration with time, paint typically flakes off and accumulates in the adjoining soils. This can result in elevated lead concentrations in the soil.

Note that the on-site buildings are mostly adjoined by asphalt pavement since 1959. As such, the potential that the soils underlying this pavement have been impacted with lead is considered relatively low. Elevated lead concentrations (greater than background levels), however, are possible in the planters that contain trees between the buildings, or any other unpaved areas adjoining the buildings.

Arsenic-Based Herbicide. It was formerly common practice for the LAUSD to apply an arsenic-based herbicide to the soil immediately prior to paving with asphalt. As such, there is a potential that elevated arsenic concentrations (greater than background levels) are present in the soils immediately underlying the paved portions of the Site.

Organochlorine Pesticides. It was formerly common practice for the LAUSD to apply termiticides around wooden structures at school sites as a means of pest control. As such, there is a potential that elevated OCP concentrations are present in site soils.

6.0 PRELIMINARY ENVIRONMENTAL SCREENING FOR EXISTING SCHOOLS

6.1 PRELIMINARY ENVIRONMENTAL SCREENING

A two-page Preliminary Environmental Screening of Existing School Site was prepared and is included as Appendix F of this report. This screening assesses the potential for environmental hazards to students and staff at an existing school. These hazards include those associated with power lines, railroads, traffic noise, faults, floods, and landslides. Liquefaction was the only hazard identified during this screening.

7.0 PHASE I ESA FINDINGS AND CONCLUSIONS

7.1 SITE BACKGROUND

Based on data collected during this assessment, the Site was undeveloped and vacant up to approximately 1914. In 1915, the Site was developed as Owensmouth High School with a single relatively large building (main classroom and administration building) located on the northwestern part of the property. Since 1931, the school has been referred to as Canoga Park High School.

In 1928, the school was comprised of a relatively large main building (main classroom and administration building) and three smaller buildings south of the main building located in the Site's northwestern portion including the Girls Gym building. The eastern half of the Site was primarily open land, with an agricultural grove in the southeast portion, Bell Creek and Calabasas Creek, both creeks flowing toward the east. Between 1928 and 1938 two additional large school buildings used as administration and classroom facing Topanga Canyon Blvd. were added in the southwest portion of the Site. Within that same period, the oval athletic track was moved to its current location in the central portion of the east half of the Site.

In 1939, the Assembly Hall (14,523 square feet [SF] in an area) was added on the Site's southwestern portion. Between 1952 and 1959, the original large school building and another small building located in the northwest portion of the Site were removed and converted to an athletic field. Between 1954 and 1958, buildings including the Cafeteria, Boys Physical Education, Clrm Bldg #2 (28,210 SF), Shop #2 (10,124 SF), and four storage buildings located south of the oval athletic track field were added. In 1960 and 1968, Clrm Bldg #3, Music building, Storage Unit building # 014DOP (914 SF), and Clrm Bldg #4 (18,419 SF) were added.

During the period between 1974 and 1979, a major remodeling occurred, in which the two-large main school buildings, located on the southwest portion of the Site facing Topanga Canyon Blvd and the cement concrete walks connecting the buildings, were removed and replaced by other two large buildings referred as buildings Unit #1 (18,348 ft2) and Unit #2 (29,540 SF).

7.2 RECOGNIZED ENVIRONMENTAL CONDITIONS

The Phase I ESA was conducted in general conformance with the scope and limitations of ASTM International, Standard E1527-13 (hereafter, ASTM E1527-13). This assessment has revealed no evidence of potential RECs in connection with this property except for the following:

Potential RECs:

1. **Underground hydraulic lift located in Shop #2 building's southern portion.** This lift is now out of use. This room/ class was previously used for mechanical auto shop class. Based on the conversation with Mr. Moran, the underground hydraulic lift and the fluids remain in place and have not been removed from the Site. A clarifier was also located on the southern side of the Shop #2 that appears to be associated with the former auto shop class. Additional information about the clarifier was not available. Hydraulic lifts operate using an air/oil combination and most lifts have hydraulic oil reservoirs as part of their system. The reservoirs can be above ground but are more commonly found underground. The capacity of the reservoirs typically ranges from about 30 to 50 gallons. Hydraulic oil is most commonly a mixture of oil range petroleum hydrocarbons and can be considered hazardous to the environment when released.

   Due to the potential presence of hazardous material in the underground lifts and/or associated reservoir that could potentially be a source of contamination; the previous use of the class as auto shop class; and presence of the associated clarifier, this is considered a REC. However, given the heavy nature of the hydraulic fluid and the limited reservoir capacity, the extent of a potential leak is expected to be limited in extent to the soils below the building.

2. **Vanowen Plaza Property located at 22017 Vanowen Street, Canoga Park**. This property is currently being investigated under the oversight of the LARWQCB due to hazardous materials releases on that property. Various dry cleaners occupied a unit in a building on this property from 1992 to 2009. A Phase I environmental site assessment (ESA) conducted in 2002 for property transaction indicated the existence of recognized environmental conditions. Subsurface site investigations conducted in 2002, 2003, 2007, and 2015 showed that the soil, soil vapor, and groundwater are contaminated with perchloroethylene (PCE), trichloroethene (TCE) and other volatile organic compounds (VOCs) as a result of release(s) from the dry-cleaning operations. The maximum PCE concentration in soil was reported at 1,100 µg/kg and the investigation indicated the migration of PCE in soil vapor and groundwater outside the dry cleaner building. The investigation also indicated PCE concentrations increase with depth indicating the elevated PCE concentration in soil vapor were from groundwater or soil close to groundwater (off-gassing).

   Following the determination that the source of PCE and TCE were from the dry cleaning, the dry-cleaning equipment was replaced with equipment installed in a spill containment pan capable of containing the volume of cleaning agents within the equipment. The dry-cleaning operations have since been discontinued (RCS, 2014). In October 2015, the

completion of remediation by injection of potassium permanganate was confirmed in a letter by the LARWQCB dated October 2016.

Several groundwater grab samples and soil vapor samples were collected at the Subject Site (Canoga Park High School) to delineate the extent of contamination and concentration of PCE associated with the release(s) from the dry cleaners. The sampling at the subject Site reported a maximum concentration of 82 µg/L of PCE in groundwater and 1.2 µg/L of PCE in soil vapor. Note, PCE in groundwater beneath the Site has not been completely assessed at Canoga Park High School due to an insufficient yield of groundwater during the investigation (Frey Environmental, Inc. [Frey] 2018).

In 2017, Office of Environmental Health Hazard Assessment (OEHHA) conducted vapor intrusion risk assessment and concluded that the risk estimates at the subject Site are less than one in one million and hazard indices are less than one.

In 2018, Frey prepared a Site Conceptual Model and Request for No Further Action (NFA) on behalf of the Vanowen Center, LLC. In the request for NFA, Frey argued that post-remediation concentration of PCE, and to a lesser extent, the other chlorinated VOCs in the soil, soil vapor, and groundwater beneath the Site, do not pose a risk to human health or the environment and recommended that NFA is considered for the Site. The LARWQCB has yet to respond to the request for NFA.

Based on this estimate, the potential health risks from vapor intrusion at the Site related with this release is below commonly accepted thresholds for schools and daycare. However, the property has not yet been granted NFA from the LARWQCB, and the PCE concentration in groundwater at subject Site has not been completely defined; therefore, the presence of PCE and other VOCs under the property is considered a potential REC for the Site pending the outcome of the regulatory process.

Regional Historical RECs:

Regional historical RECs also were identified at the Site. Historical RECs refer to a past release that has been remediated to below "residential" standards and given regulatory closure with no use restrictions. Four adjacent properties were found to be historical RECs for the subject Site:

1. **Former Thrifty Oil Station** (located at 6851 Topanga Canyon Boulevard, Canoga Park, CA). This property is located across Topanga Canyon Blvd to the west from the Site, reported a leaking UST in 1990. The property was subsequently remediated by soil excavation, soil-vapor extraction, and groundwater extraction. The case was closed in 2010 by the LARWQCB because the groundwater plume was stable and the subsurface lithology (tight silt and clay) limited the migration of contaminants. In February 1994, two wells (MW9 and MW10) were installed on the subject Site (Canoga Park HS), in the grass, across the street from the Thrifty Oil Station in a northeast down-gradient direction. The 2010 LARWQCB closure letter states that "MW9 and MW10 have shown [non-detect] ND for all fuel constituents since October 1994". However, the Geotracker groundwater monitoring well database (spanning from October 2001 to October 2009) shows concentrations of methyl-tert-butyl ether (MTBE) in well MW9 as late as November 2007 and in MW10 as late as June 2008. Due to these factors, this property is considered an HREC for the Site.
2. **Topanga Car Wash** (located at 6829 Topanga Canyon Boulevard, Canoga Park, CA). This property is located across Topanga Canyon Blvd west of the Site. There was a reported leaking gasoline UST in 1989, which could potentially impact an aquifer used for drinking water. A well installation workplan was submitted in 2010 and seventeen wells were

installed. Three of these wells: MW-16, MW-17, and MW-18, were placed on the Site (Canoga Park HS), in the grass, across the street from the car wash property. The groundwater in these wells was reported to contain gasoline related constituents between the period of 2004 to 2014. The property was subsequently remediated by several methods including free product recovery, dual phase extraction, and soil vapor extraction. In 2017, a well destruction report was submitted to the LARWQCB and the case was closed. The LARWQCB had determined that the contaminant plume was stable or decreasing in areal extent, that there was a low threat for the vapor-intrusion-to-air pathway, and there was a low threat for direct contact and outdoor air exposure. Due to these factors, this property is considered an HREC for the Site.

3. **Shell Service Station** (located at 22001 Vanowen Street., Canoga Park, CA). This property is also located across Topanga Canyon Blvd west of the Site, reported a leaking UST in 1987. The property was subsequently remediated by soil vapor and groundwater extraction, as well as soil excavation. In 1991, seven groundwater monitoring wells (B-11 through B-17) were constructed by Shell on the Site along Topanga Canyon Blvd. In 1997, due to diminished concentrations of contaminants in the groundwater, these monitoring wells were abandoned. The LARWQCB granted closure for the Shell property in 2013. Due to these factors, this property is considered an HREC for the Site.

4. **Former Union Oil Service Station – Currently known as Red Carpet Car Wash** (located at 6760 Topanga Canyon Blvd., Canoga Park, CA). This property, located across Vanowen Street is south of the Site has records listed from 1969 to 2014. The property reported a leaking gasoline UST in 1990 which could potentially impact an aquifer used for drinking water. The site was subsequently remediated using soil vapor extraction. The case was closed by the LARWQCB in September 2015. In March 2008, three monitoring wells (GW-7, GW-8, and GW-9) were installed on the subject Site in the north-northeast down-gradient direction—in the grass south of the Assembly Hall and across the street from the Union Oil Service Station. As late as April 2013, constituents such as MTBE, total petroleum hydrocarbons as gasoline (TPH-g), and tert-butyl alcohol (TBA) were found in these wells. Due to these factors, this property is considered an HREC for the Site.

Other Environmental Conditions:

Other Environmental Conditions (OECs) were identified at the Site during this assessment. OECs, or potential RECs, are features or issues that, while being judged to have a relatively low probability of resulting in significant impact to the Site, should be considered in project planning and risk management. The OECs listed below were identified at the Site.

1. **Lead-based Paint.** With the exception of newer portable buildings on the Site's, it is considered likely that the paint on the buildings contains, or formerly contained elevated lead concentrations. Due to slow deterioration with time, paint typically flakes off and accumulates in the adjoining soils. This can result in elevated lead concentrations in the soil. Note that the on-site buildings are mostly adjoined by asphalt pavement since 1959. As such, the potential that the soils underlying this pavement have been impacted with lead is considered relatively low. Elevated lead concentrations (greater than background levels), however, are possible in the planters that contain trees between the buildings, in former building areas, or any other unpaved areas adjoining the buildings.

2. **Arsenic-Based Herbicide.** It was formerly common practice for the LAUSD to apply an arsenic-based herbicide to the soil immediately prior to paving with asphalt. As such, there is a potential that elevated arsenic concentrations (greater than background levels) are present in the soils immediately underlying the paved portions of the Site.

3. **Organochlorine Pesticides.** It was formerly common practice for the LAUSD to apply termiticides around wooden structures at school sites as a means of pest control. As such, there is a potential that elevated OCP concentrations are present in site soils.

4. **Polychlorinated Biphenyls.** Four transformers were documented at different locations at the Site: 1) adjacent to the former boiler room; 2) at the northeast corner of Clrm Bldg #3; 3) at the northeast portion of the Site and northwest of the Owensmouth High School compound, and 4) east of Clrm Bldg #2 and just west of the athletic track field. Due to the age of most of the transformers, it is considered possible that they may have previously contained polychlorinated biphenyls (PCBs). The locations of these transformers are identified in Figure 3.

   Transformer oil releases were not observed beneath, or adjacent to, any of the transformers reviewed at the time of this assessment. The transformers were located on concrete foundations that adjoined paved areas.

5. **Radon.** The Site and its surrounding area are designated as high potential for indoor-radon levels above 4.0 picocuries per liter in recent alluvium (Radon Potential Zone Map for Southern Los Angeles County, California, California Geologic Survey, January 2005).

7.3 REGIONAL HAZARDOUS MATERIAL RELEASES

Based on a review of properties within the site vicinity and data made available during this assessment, there is a relatively low potential that contaminants from upgradient properties have impacted the soil or groundwater underlying the Site.

The Vanowen Plaza Property located at 22017 Vanowen Street (within the ¼ mile and upgradient of the Site), is currently being regulated by the LARWQCB as a result of hazardous material releases. As detailed in Section 7.2, subsurface site investigations conducted at this property showed that the soil, soil vapor, and groundwater are contaminated with perchloroethylene (PCE), trichloroethene (TCE) and other volatile organic compounds (VOCs) as a result of release(s) from the dry-cleaning operations. NFA requested for this property has not been granted by LARWQCB yet.

Other properties within the site vicinity have recorded information indicating releases of contaminants that have, or may have impacted the soil or groundwater underlying the Site are discussed in the Section regarding HRECs. The data and information reviewed on these other properties include closure or no-further-action determinations from the regulatory agency providing oversight. Site closure indicates the properties were remediated or evaluated to be at low risk, and therefore are not includes as potential RECs. This, however, does not assure that no impacts to the Subject Site are present.

7.4 RECOMMENDATIONS

The following recommendations are based on the findings and conclusions presented above.

- **Lead-Based Paint.** Prior to disturbing soil at the Site, it is recommended that representative soil samples be collected within the associated area(s) and analyzed for lead. The results of this investigation should be used to determine if the lead concentrations in soil in these areas are a potential threat to human health.
- **Arsenic.** Prior to disturbing any asphalt at the Site, it is recommended that representative soil samples be collected beneath the asphalt within the associated area(s) and analyzed for arsenic. The results of this investigation should be used to

determine if the arsenic concentrations in soil in these areas are a potential threat to human health.

- **OCPs**. Prior to their removal, it is recommended that representative soil samples be collected around wooden structures and analyzed for OCPs. The results of this investigation should be used to determine if the OCP concentrations in soil in these areas are a potential threat to human health.
- **Transformers.** If future construction activities encroach into the immediate vicinity of pad-mounted transformers, it is recommended that the adjoining soils be assessed for the possible presence of PCBs prior to disturbing the soil around the transformer. The results of this investigation should be used to determine if there are detectable concentrations of PCBs in this soil and if the detectable PCBs are a potential threat to human health.
- **Hydrocarbons**. Due to the previous use of the southern part of building Shop #2 as an auto shop, the presence of underground lifts, and an associated clarifier, this area was considered a potential REC. However, the extent of a potential leak is expected to be limited in the soils below the building due to the heavy nature of the hydraulic fluid. Assessment of the soils below the building and the clarifier for the possible presence of hydrocarbons is recommended if future construction activity planned will disturb the soil beneath the building.
- **Radon.** Due to the high potential for indoor-radon levels above 4.0 picocuries per liter at the Site and its surroundings, it is recommended that radon mitigation measures be included in any future buildings or additions.

8.0 LIMITATIONS

8.1 SIGNIFICANT ASSUMPTIONS

The ASTM E1527-13 standard ensures that the assessment methods used constitute appropriate inquiry consistent with good commercial and customary practice. It includes the review of prior uses of the property to identify and analyze environmental conditions that constitute past or potential environmental risks associated with the site property. Assessments conducted in accordance with this standard are intended to reduce, but not eliminate uncertainty, with respect to the potential for RECs associated with the site property.

8.2 LIMITATIONS AND EXCEPTIONS

The findings and opinions presented in this document pertain to site conditions at the time of this assessment. They should not be relied upon to represent conditions at substantially later dates. The opinions included are based on information obtained during the study and on the experience of professional personnel. If additional information becomes available that might impact environmental findings, then the opportunity to review the information, re-assess the potential concerns, and modify Eco's opinions (if warranted) will be requested.

Although this investigation has been an attempt to identify the potential for environmental impacts to the Site, potential sources of contamination may have escaped detection due to one or more of the following:

- The limited scope of this assessment
- The inaccuracy of public records

- Presence of undetected or unreported environmental incidents

It was not within the scope of this assessment to address non-ASTM issues such as lead-based paint and asbestos-containing materials in buildings, naturally occurring hazardous materials, or vegetation and wetlands. Further, it was not the purpose of this assessment to determine the actual presence, degree, or extent of contamination at the Site.

8.3 SIGNIFICANT DATA GAPS

Significant data gaps were not identified during the preparation of this Phase I ESA. Data gaps to the standard for this report include the following:

- Interviews with adjoining property representatives
- Assessment of the Site's purchase price and the fair market value

8.4 ADDITIONAL SERVICES

No additional services were included with the Phase I portion of this ESA.

8.5 SPECIAL TERMS AND CONDITIONS

No special terms or conditions apply to the preparation of this report.

8.6 USER RELIANCE

The findings and conclusions presented in this report represent the best professional judgment of the Environmental Professional based on the conditions that existed during the assessment and the information available during the course of the assessment. Information regarding operations, conditions, and test data provided by the client, owner, or other representative has been assumed to be correct and complete.

This report may be distributed and relied upon by LAUSD, its successors, and assignees. Reliance on the information and conclusions presented in this report by any other party is not authorized without the written consent of Eco & Associates, Inc.

9.0 ENVIRONMENTAL PROFESSIONAL QUALIFICATIONS AND SIGNATURE

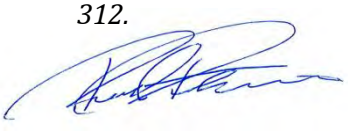
This Phase I Environmental Site Assessment Report was prepared by Mr. Paul Peterson, an Environmental Professional who possesses sufficient specific education, training, and experience necessary to exercise professional judgment to develop opinions and conclusions regarding conditions indicative of hazardous material releases or threatened releases on, at, in, or to property. He is sufficiently qualified to meet the objectives and performance of this assessment. Mr. Peterson holds a current Professional Geologist's license (PG# 7508) in California and has more than 24 years of full-time relevant experience. He obtained a Bachelor of Science Degree in Geological Sciences from California State University in Northridge, California, and has continued to build on his environmental-related knowledge through participation in continuing education and work-related experience.

As required by 40 Code of Federal Regulations (CFR) 312.21(d) and Section 12.2 of the ASTM E1527-13, the environmental professional's statement and signature are provided below.

In support of the contents of this report:

> *I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in §312.10 of 40 CFR 312; and I have the specific*

qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance to the standards and practices set forth in 40 CFR Part 312.



Paul Peterson, PG #7508
Senior Project Geologist

10.0 REFERENCES

Frey Environmental, Inc., 2018. *Conceptual Site Model & Request for No Further Action*, Vanowen Center, 22017 Vanowen Street, Canoga Park, California, dated February 12, 2018.

OEHHA (Office of Environmental Health Hazard Assessment, Cal EPA), 2017. Memo from James C, Carlisle, Staff Toxicologist, to the RWQCB, transmitting updated vapor intrusion risk assessment data for Vanowen Street, Canoga Park, EHHA # 880216-03, dated July 25, 2017.

FEMA Flood Map Service Center (website), 2019. https://msc.fema.gov/portal/search

FIGURES



Environmental Excellence

Eco & Associates, Inc.
18231 Irvine Boulevard, Suite 204
Tustin, CA 92780
Phone: 714.289.0995 Fax: 714.289.0965

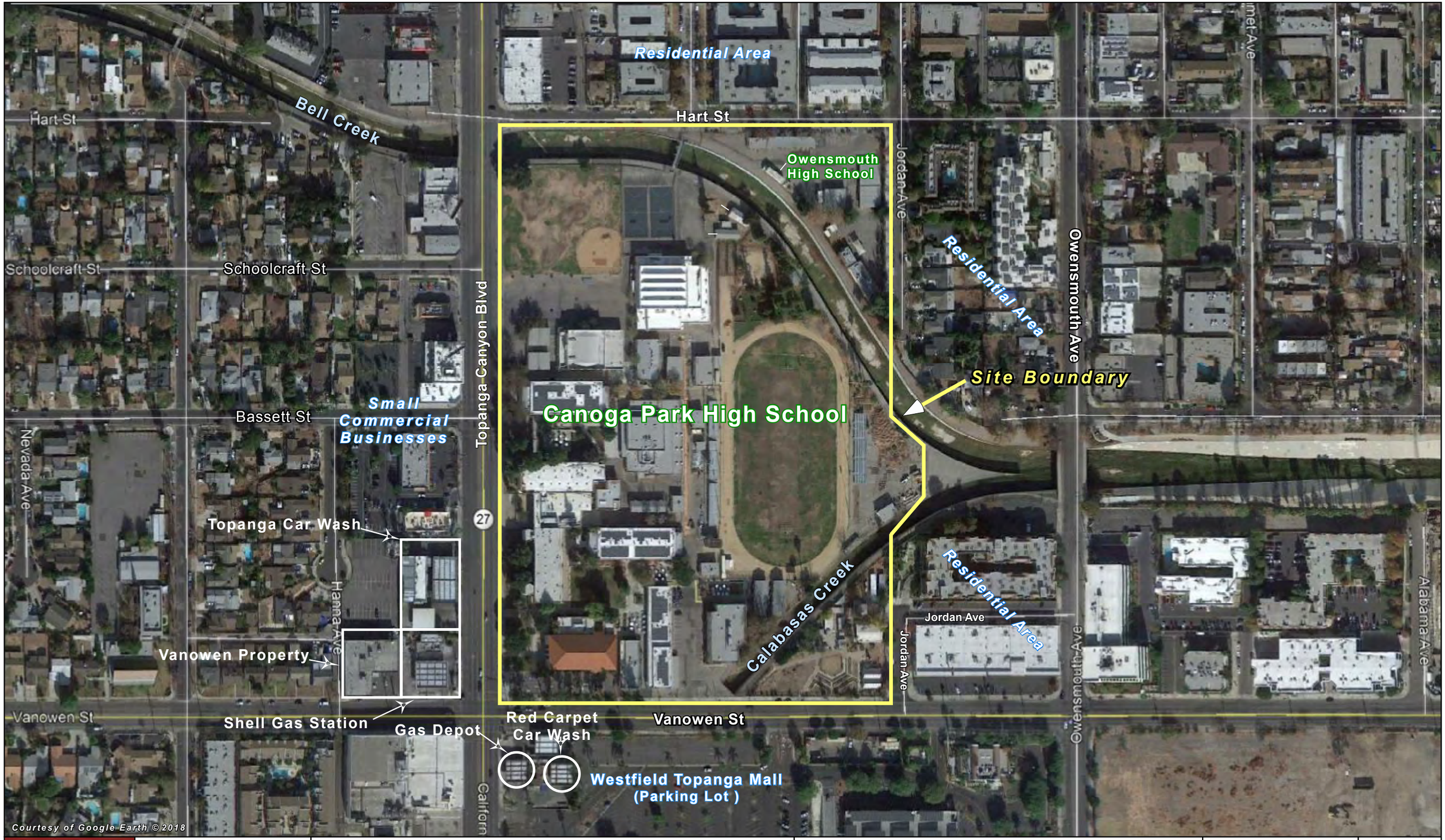
REGIONAL SITE LOCATION MAP

Canoga Park High School
6850 Topanga Canyon Boulevard
Canoga Park, CA 91303
Assessor's Parcel No. 2138-001-900

DATED February 2019

PROJECT NO.: Eco-18-1231

FIGURE
1



Environmental Excellence

Eco & Associates, Inc.
18231 Irvine Boulevard, Suite 204
Tustin, CA 92780
Phone: 714.289.0995 Fax: 714.289.0965

Approximate Scale:
0 300 600 ft

N
W E
S

SITE VICINITY MAP
CANOGA PARK HIGH SCHOOL
6850 Topanga Canyon Boulevard
Canoga Park, CA 91303

DATED February 2019

PROJECT NO.: Eco-18-1231

FIGURE
2



Environmental Excellence

Eco & Associates, Inc.
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SITE LAYOUT

CANOGA PARK HIGH SCHOOL
6850 Topanga Canyon Boulevard
Canoga Park, CA 91303

Assessor's Parcel No. 2138-001-900

Dated January 2019

Project No.: Eco-18-1231

FIGURE
3

APPENDIX A

ENVIRONMENTAL LIENS AND ACTIVITY USE LIMITATION SEARCH

–

PROPERTY TAX MAP

CANOGA PARK HIGH SCHOOL
6850 TOPANGA CANYON BLVD
CANOGA PARK, CA 91303

Inquiry Number: 5499207.7S
DECEMBER 4, 2018

EDR Environmental Lien and AUL Search

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Environmental Lien and AUL Search

The EDR Environmental Lien Search Report provides results from a search of available current land title records for environmental cleanup liens and other activity and use limitations, such as engineering controls and institutional controls.

A network of professional, trained researchers, following established procedures, uses client supplied address information to:

- search for parcel information and/or legal description;
- search for ownership information;
- research official land title documents recorded at jurisdictional agencies such as recorders' offices, registries of deeds, county clerks' offices, etc.;
- access a copy of the deed;
- search for environmental encumbering instrument(s) associated with the deed;
- provide a copy of any environmental encumbrance(s) based upon a review of key words in the instrument(s) (title, parties involved, and description); and
- provide a copy of the deed or cite documents reviewed.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EDR Environmental Lien and AUL Search

TARGET PROPERTY INFORMATION

ADDRESS

CANOGA PARK HIGH SCHOOL
6850 TOPANGA CANYON BLVD
CANOGA PARK, CA 91303

RESEARCH SOURCE

Source 1: LOS ANGELES COUNTY RECORDER'S OFFICE

Source 2: CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY

Source 3: UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

PROPERTY INFORMATION

Deed 1

Type of Deed:	NA
Title is vested in:	L A UNIFIED SCHOOL DISTRICT
Title received from:	NA
Date Executed:	NA
Date Recorded:	PRIOR TO 1980
Book:	NA
Page:	NA
Volume:	NA
Instrument#:	NA
Docket:	NA
Land Record Comments:	NA
Miscellaneous Comments:	NO DEED IMAGE

Legal Description: TRACT NO 9267 VAC ST ADJ ON E AND LOT A AND (EX OF STS) LOT B

Current Owner: L A UNIFIED SCHOOL DISTRICT

Property Identifiers: 2138-001-900

Comments: NA

EDR Environmental Lien and AUL Search

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐ Not Found ☒

If Found:

1st Party:	NA
2nd Party:	NA
Dated:	NA
Recorded:	NA
Book:	NA
Page:	NA
Docket:	NA
Volume:	NA
Instrument #:	NA
Comments:	NA
Miscellaneous:	NA

OTHER ACTIVITY AND USE LIMITATIONS (AULS)

Other AUL's: Found ☐ Not Found ☒

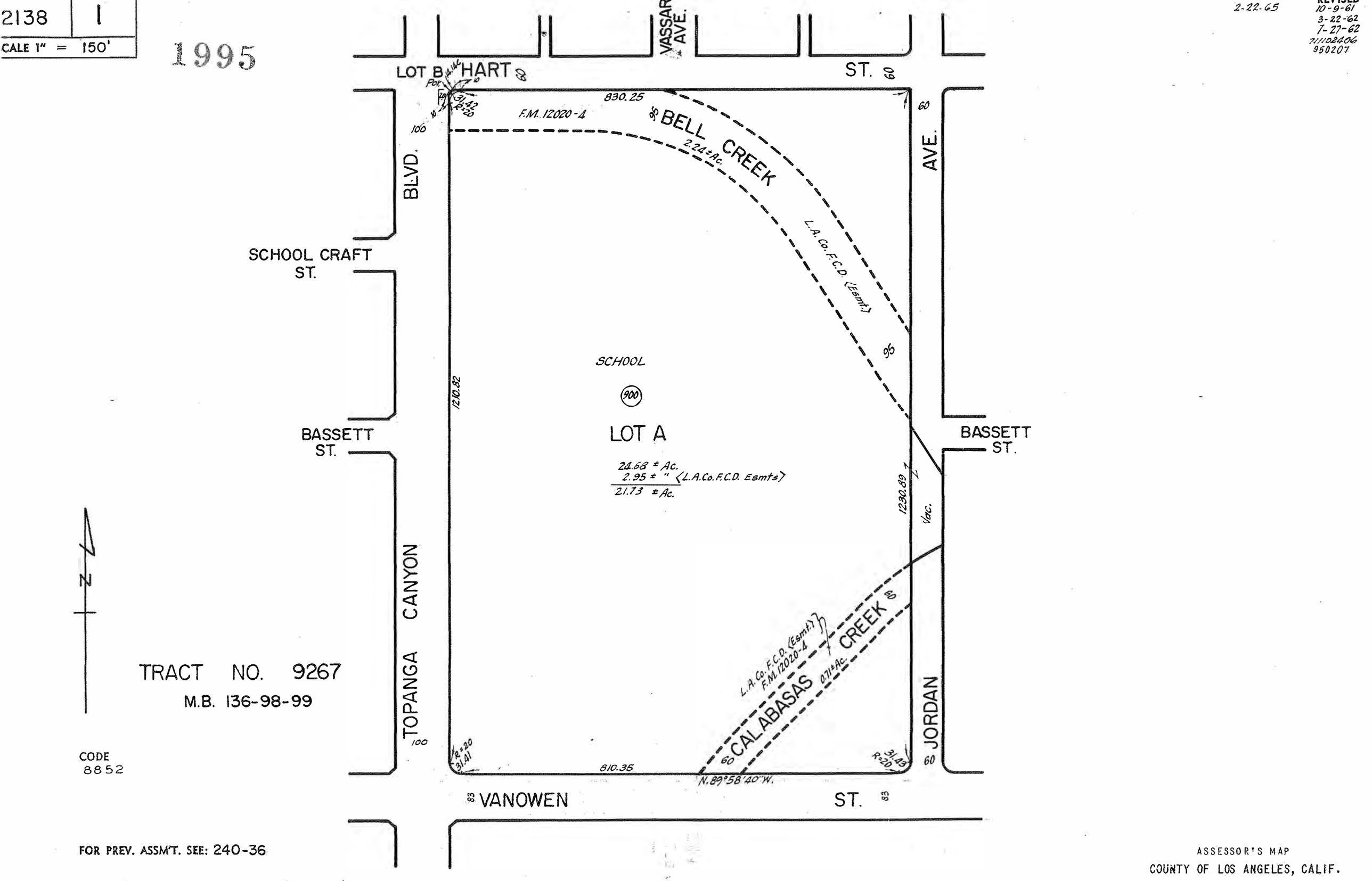
If Found:

1st Party:	NA
2nd Party:	NA
Dated:	NA
Recorded:	NA
Book:	NA
Page:	NA
Docket:	NA
Volume:	NA
Instrument #:	NA
Comments:	NA
Miscellaneous:	NA

EDR Environmental Lien and AUL Search

MISCELLANEOUS

Type of Instrument: NONE IDENTIFIED
First Party:
Second Party:
Date Executed:
Date Recorded:
Instrument #:
Book:
Page:
Comments:


2138
1
SCALE 1" = 150'
1995
2-22-65
REVISED
10-9-61
3-22-62
7-27-62
711102406
950207
VASSAR AVE.
LOT B
HART
ST.
830.25
F.M. 12020-4
BELL CREEK
2.24±Ac.
L.A. Co. F.C.D. (Esmt.)
BLVD.
AVE.
SCHOOL CRAFT ST.
SCHOOL
900
LOT A
24.68 ± Ac.
2.95 ± " (L.A.Co.F.C.D. Esmts)
21.73 ± Ac.
1210.82
1230.89
BASSETT ST.
BASSETT ST.
Vac.
TOPANGA CANYON
CALABASAS CREEK
0.71±Ac.
L.A. Co. F.C.D. (Esmt.)
F.M. 12020-4
JORDAN
810.35
N.89°58'40"W.
VANOWEN
ST.
TRACT NO. 9267
M.B. 136-98-99
CODE
8852
FOR PREV. ASSM'T. SEE: 240-36
ASSESSOR'S MAP
COUNTY OF LOS ANGELES, CALIF.

APPENDIX B

ENVIRONMENTAL DATA RESOURCES REPORT

CANOGA PARK HIGH SCHOOL
6850 TOPANGA CANYON BLVD
CANOGA PARK, CA 91303

Inquiry Number: 5499207.13S
DECEMBER 4, 2018

The EDR 1940 Chain of Title

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Chain of Title

The EDR Chain of Title Report tracks a line of successive owners from the present back to 1940 of a particular parcel of property, linked together by recorded transactions which pass title. Available nationwide, this report provides a summary of a property's ownership history and is a valuable source for determining the prior uses of a property.

A network of professional abstractors following established procedures, uses client supplied address information to locate:

- Historical Chain of Title research
- Leases and Miscellaneous

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EDR Chain of Title

TARGET PROPERTY INFORMATION

ADDRESS

CANOGA PARK HIGH SCHOOL
6850 TOPANGA CANYON BLVD
CANOGA PARK, CA 91303

RESEARCH SOURCE

SOURCE 1:	LOS ANGELES COUNTY RECORDER'S OFFICE
SOURCE 2:	LOS ANGELES COUNTY ASSESSOR'S OFFICE
EXAMINER'S NOTE:	PUBLIC RECORDS OF LOS ANGELES COUNTY, CA WERE SEARCHED FROM JANUARY 1, 1940 TO OCTOBER 31, 2018, AND NO OTHER DEEDS VESTING TITLE IN THE SUBJECT PROPERTY WERE FOUND OF RECORD DURING THE PERIOD SEARCHED.

PROPERTY DESCRIPTION

CURRENT OWNER:	L A UNIFIED SCHOOL DISTTRICT
LEGAL DESCRIPTION:	TRACT NO 9267 VAC ST ADJ ON E AND LOT A AND (EX OF STS) LOT B
PROPERTY IDENTIFIERS:	2138-001-900
GENERAL COMMENTS:	NA

HISTORICAL CHAIN OF TITLE

SEE EXHIBIT "A"

LEASES AND MISCELLANEOUS

SEE EXHIBIT "B"

EDR Chain of Title

CHAIN OF TITLE

EXHIBIT "A"

EDR Chain of Title

HISTORICAL CHAIN OF TITLE

PARCEL 2138-001-900

CHAIN 1

TYPE OF DEED:	NA
TITLE IS VESTED IN:	L A UNIFIED SCHOOL DISTTRICT
TITLE RECEIVED FROM:	NA
DATE EXECUTED:	NA
DATE RECORDED:	PRIOR TO 1940
BOOK:	NA
PAGE:	NA
VOLUME:	NA
INSTRUMENT #:	NA
DOCKET:	NA
LAND RECORD COMMENTS:	NA

EDR Chain of Title

LEASES AND MISCELLANEOUS

EXHIBIT "B"

EDR Chain of Title

LEASES AND MISCELLANEOUS

TYPE OF INSTRUMENT: NONE IDENTIFIED
FIRST PARTY:
SECOND PARTY:
DATE EXECUTED:
DATE RECORDED:
PAGE:
BOOK:
INSTRUMENT #:
COMMENTS:

CANOGA PARK HIGH SCHOOL
6850 Topanga Canyon Blvd
Canoga Park, CA 91303

Inquiry Number: 5499207.5
November 30, 2018

The EDR-City Directory Abstract

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION

Executive Summary

Findings

City Directory Images

Thank you for your business.
Please contact EDR at 1-800-352-0050
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This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OR DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction orforecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1920 through 2014. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 660 feet of the target property.

A summary of the information obtained is provided in the text of this report.

RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

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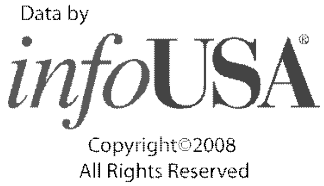

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

Year	Source	TP	Adjoining	Text Abstract	Source Image
2014	EDR Digital Archive	X	X	X	-
2010	EDR Digital Archive	X	X	X	-
2006	Haines Company	-	-	-	-
2004	Haines Company	-	X	X	-
	Haines Company	X	X	X	-
2003	Haines & Company	-	-	-	-
2001	Haines & Company, Inc.	-	-	-	-
2000	Pacific Bell Telephone	-	-	-	-
1999	Haines Company	-	-	-	-
1996	GTE	-	-	-	-
1995	Pacific Bell	-	X	X	-
1992	PACIFIC BELL WHITE PAGES	-	-	-	-

EXECUTIVE SUMMARY

Year	Source	TP	Adjoining	Text Abstract	Source Image
1991	Pacific Bell	-	X	X	-
	Pacific Bell	X	X	X	-
1990	PACIFIC BELL WHITE PAGES	-	-	-	-
1986	Pacific Bell	-	X	X	-
1985	Pacific Bell	-	X	X	-
	Pacific Bell	X	X	X	-
1981	Pacific Telephone	-	X	X	-
1980	Pacific Telephone	-	X	X	-
	Pacific Telephone	X	X	X	-
1976	Pacific Telephone	-	X	X	-
1975	Pacific Telephone	-	X	X	-
1972	R. L. Polk & Co.	-	-	-	-
1971	R. L. Polk & Co.	-	-	-	-
1970	Pacific Telephone	-	X	X	-
	Pacific Telephone	X	X	X	-
1969	Pacific Telephone	-	-	-	-
1967	Pacific Telephone	-	X	X	-
1966	Pacific Telephone	-	-	-	-
1965	Pacific Telephone	-	X	X	-
	Pacific Telephone	X	X	X	-
1964	Pacific Telephone	-	-	-	-
1963	Pacific Telephone	-	-	-	-
1962	Pacific Telephone	-	X	X	-
	Pacific Telephone	X	X	X	-
1961	R. L. Polk & Co.	-	-	-	-
1960	Pacific Telephone	-	-	-	-
1958	Pacific Telephone	-	-	-	-
1957	Pacific Telephone	-	-	-	-
1956	Pacific Telephone	-	X	X	-
	Pacific Telephone	X	X	X	-
1955	R. L. Polk & Co.	-	-	-	-
1954	R. L. Polk & Co.	-	-	-	-
1952	Los Angeles Directory Co.	-	-	-	-
1951	Los Angeles Directory Co Publishers	-	-	-	-
1950	Pacific Telephone	-	X	X	-
	Pacific Telephone	X	X	X	-
1949	Los Angeles Directory Co.	-	-	-	-
1948	Los Angeles Directory Co.	-	-	-	-
1947	Pacific Directory Co.	-	-	-	-
1946	Southern California Telephone Co	-	-	-	-
1945	The Glendale Directory Co.	-	-	-	-
1944	R. L. Polk & Co.	-	-	-	-

EXECUTIVE SUMMARY

Year	Source	TP	Adjoining	Text Abstract	Source Image
1942	Los Angeles Directory Co.	-	-	-	-
1940	Los Angeles Directory Co.	-	X	X	-
	Los Angeles Directory Co.	X	X	X	-
1939	Los Angeles Directory Co.	-	-	-	-
1938	Los Angeles Directory Company Publishers	-	-	-	-
1937	Los Angeles Directory Co.	-	-	-	-
1936	Los Angeles Directory Co.	-	-	-	-
1935	Los Angeles Directory Co.	-	-	-	-
1934	Los Angeles Directory Co.	-	-	-	-
1933	Los Angeles Directory Co.	-	-	-	-
1932	Los Angeles Directory Co.	-	-	-	-
1931	Los Angeles Directory Company Publishers	-	-	-	-
1930	Los Angeles Directory Co.	-	-	-	-
1929	Los Angeles Directory Co.	-	-	-	-
1928	Los Angeles Directory Co.	-	-	-	-
1927	Los Angeles Directory Co.	-	-	-	-
1926	Los Angeles Directory Co.	-	-	-	-
1925	Los Angeles Directory Co.	-	-	-	-
1924	Los Angeles Directory Co.	-	-	-	-
1923	Los Angeles Directory Co.	-	-	-	-
1921	Los Angeles Directory Co.	-	-	-	-
1920	Los Angeles Directory Co.	-	-	-	-

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

6850 Topanga Canyon Blvd
Canoga Park, CA 91303

FINDINGS DETAIL

Target Property research detail.

Topanga Canyon Blvd

6850 Topanga Canyon Blvd

Year	Uses	Source
2014	LOS ANGELES UNIFIED SCHOOL DST	EDR Digital Archive
2010	LOS ANGELES UNIFIED SCHL DIST	EDR Digital Archive

TOPANGA CANYON BLVD

6850 TOPANGA CANYON BLVD

Year	Uses	Source
2004	CANOGAPK	Haines Company
	CANOGAPKHIGH	Haines Company
	COMMUNITY ADULTSC	Haines Company
	SCHOOL	Haines Company
1991	Canoga Park High School	Pacific Bell
	Canoga Park High School Hot Line	Pacific Bell
1985	CAN OGA PARK HOS PITAL	Pacific Bell
	Canoga Park High School	Pacific Bell
	Canoga Park High School Hot Line	Pacific Bell
1980	CANOGA PARK HIGH SCHOOL	Pacific Telephone
1970	CANOGA PARK HIGH SCHOOL	Pacific Telephone
1965	CANOGA PARK HTIGH SCHOOL	Pacific Telephone
1962	CANOGA PARK HIGH SCHOOL	Pacific Telephone
	CANOGA PARK HIGH SCHOOL AGRICULTURE DEPT	Pacific Telephone
1956	CANOGA PARK HIGH SCHOOL	Pacific Telephone
	CANOGA PARK HIGH SCHOOL AGRICULTURE DEPT	Pacific Telephone
1950	CANOGA PRK SENIOR HIGH SCHOOL	Pacific Telephone
	LOS ANGELES CITY BOARD OF EDUCATION SENIOR HIGH SCHOOLS	Pacific Telephone

FINDINGS

Year	Uses	Source
1940	Canoga Park High School	Los Angeles Directory Co.

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

BASSETT ST

22007 BASSETT ST

Year	Uses	Source
1970	RAY INSURANCE AGENCY	Pacific Telephone
	RAY INSURANCE AGENCY	Pacific Telephone
1965	GO8 A8R 8EAL8	Pacific Telephone
	ROSE6N 8ERNA8 RE8ALTT	Pacific Telephone

Bassett St

22009 Bassett St

Year	Uses	Source
2014	HUB	EDR Digital Archive
2010	HAIR BY LUANN	EDR Digital Archive

22011 Bassett St

Year	Uses	Source
2010	ALLENS WATCH CLOCK SERVICE	EDR Digital Archive

BASSETT ST

22011 BASSETT ST

Year	Uses	Source
1991	West Valley Passap	Pacific Bell
1980	MARIHART REALTY	Pacific Telephone

22015 BASSETT ST

Year	Uses	Source
1962	ISINGS BERNARD	Pacific Telephone

22027 BASSETT ST

Year	Uses	Source
2004	OALTAMIRA Hel Iodoro	Haines Company
1991	Altamira Juan & Irma	Pacific Bell
1980	HERRERA GUADALUPE	Pacific Telephone
1965	JONES KE86ETT C	Pacific Telephone

Year	Uses	Source
1962	SPINDLER FRED V	Pacific Telephone

22030 BASSETT ST

Year	Uses	Source
2004	VALOESNorma C	Haines Company
1995	Munoz Hector A	Pacific Bell
1980	BANG ROBERT R	Pacific Telephone
	BANG T	Pacific Telephone
1970	BANG ROBT R	Pacific Telephone
	BANG MARY D	Pacific Telephone
	BANG ROBT R	Pacific Telephone
	BANG MARY D	Pacific Telephone
1965	A0T0865 EL8 I1	Pacific Telephone

22031 BASSETT ST

Year	Uses	Source
2004	9 YAHYAKASHANIS	Haines Company
1991	Valler W Carl	Pacific Bell
1965	1028ALS JUSE	Pacific Telephone

22033 BASSETT ST

Year	Uses	Source
1965	TH0MAS S B	Pacific Telephone

22037 BASSETT ST

Year	Uses	Source
2004	VGARY Owen	Haines Company
1980	CARONE M	Pacific Telephone

Bassett St

22038 Bassett St

Year	Uses	Source
2014	AYALA LOGISTICS GROUP	EDR Digital Archive

BASSETT ST

22038 BASSETT ST

Year	Uses	Source
2004	SHERRY Richard	Haines Company
1985	Bang T	Pacific Bell

FINDINGS

Year	Uses	Source
1965	OCCO H 9BE8T	Pacific Telephone
1956	BOLANDER NEIL A	Pacific Telephone

Bassett St

22041 Bassett St

Year	Uses	Source
2014	A E D CONSTRUCTION	EDR Digital Archive
2010	A E D CONSTRUCTION	EDR Digital Archive

BASSETT ST

22041 BASSETT ST

Year	Uses	Source
2004	BURR Davd	Haines Company
1995	Aharoni Yitzhak	Pacific Bell
1985	Aharoni Yitzhak	Pacific Bell
1965	B8A9C8 EIS	Pacific Telephone

22044 BASSETT ST

Year	Uses	Source
2004	PANTANILLA Daniel	Haines Company
1991	Paul Gerald G	Pacific Bell
1985	Paul Gerald G	Pacific Bell
1980	PAUL GERALD G	Pacific Telephone
1965	PAUL GE08AL	Pacific Telephone

Bassett St

22047 Bassett St

Year	Uses	Source
2010	LOCH CONSTRUCTION	EDR Digital Archive

BASSETT ST

22047 BASSETT ST

Year	Uses	Source
2004	SEDIOZarlashi	Haines Company
1991	Sediq Sakhi	Pacific Bell
1975	Mc Cready Robt J	Pacific Telephone
1965	AR8ESC0 9R1	Pacific Telephone

FINDINGS

Year	Uses	Source
1956	CARLTON S SCHOOL OF DANCING	Pacific Telephone

22050 BASSETT ST

Year	Uses	Source
2004	JIMENEZ Randi	Haines Company
1991	Mead Amanda	Pacific Bell
	Mead Albert W Jr	Pacific Bell
	Mead BE	Pacific Bell
1985	Mead Amanda	Pacific Bell
	Mead Albert W Jr	Pacific Bell
1980	MEAD ALBERT W JR	Pacific Telephone
1970	KISICKI PAUL J JR MRS	Pacific Telephone
	KISICKI PAUL J JR MRS	Pacific Telephone
1965	C0XISI0CK PATI	Pacific Telephone
1962	KISICKI PAUL J JR MRS	Pacific Telephone
1956	KISICKI PAUL J JR MRS	Pacific Telephone

22051 BASSETT ST

Year	Uses	Source
2004	LEON Hermenegildo	Haines Company
	SHERMANGILDO Leon	Haines Company
1995	Leon Hermenegildo	Pacific Bell
1991	Leon J	Pacific Bell
	Leon I	Pacific Bell
	Leon Hermenegildo	Pacific Bell
	Leon Hermenegildo	Pacific Bell
1985	Leon Hermenegildo	Pacific Bell
1980	LEON HERMENEGILDO	Pacific Telephone
1975	Dickie John	Pacific Telephone
1965	KRIPFL 8F18E8	Pacific Telephone
	TKROPFL ALFIER	Pacific Telephone

22057 BASSETT ST

Year	Uses	Source
2004	OMENDOZAMaria D	Haines Company
	FARIASMario	Haines Company
1965	H1ILLS JACK	Pacific Telephone

FINDINGS

HANNA AVE

6821 HANNA AVE

Year	Uses	Source
2004	VAQUERANO Carlos	Haines Company
1985	Martinez M guel	Pacific Bell
1970	JOHNSON DARRYL E	Pacific Telephone
	JOHNSON DARRYL E	Pacific Telephone
1962	BAKERS RUG & UPHOLSTERY CLEANERS	Pacific Telephone
	BAKER HOWARD M	Pacific Telephone
1956	EISENBRUCH J C RL EST	Pacific Telephone

6825 HANNA AVE

Year	Uses	Source
2004	STRAIN Kennelh	Haines Company
1991	Tat Douglas & Susan	Pacific Bell
1985	Parks Richard E	Pacific Bell
1980	ULERY ROBT	Pacific Telephone
1962	MITCHELL OTIS E	Pacific Telephone
1956	SELLS GEO L	Pacific Telephone

6829 HANNA AVE

Year	Uses	Source
2004	ORUBIOJose Luis	Haines Company
1970	O HARA J E	Pacific Telephone
	O HARA J E	Pacific Telephone
1965	DEAN PEGGY	Pacific Telephone
1962	DEAN GARY H	Pacific Telephone
1956	PADFIELD EDWIN	Pacific Telephone

Hanna Ave

6833 Hanna Ave

Year	Uses	Source
2010	PARTY RENTAL	EDR Digital Archive

FINDINGS

HANNA AVE

6833 HANNA AVE

Year	Uses	Source
2004	CORRAL Isldro	Haines Company
	SRUVALCABA Carmen W	Haines Company
1995	Corrallsldro	Pacific Bell
1991	Corrallsidro	Pacific Bell
	Corral J	Pacific Bell
1985	Corral Carmen	Pacific Bell
	Corral Isidro	Pacific Bell
1980	CORRAL ISIDRO	Pacific Telephone
	CORRAL CARMEN	Pacific Telephone
1970	BRITTON OREEN L	Pacific Telephone
	BRITTON OREEN L	Pacific Telephone
1962	MURRAY ANNA ELIZABETH	Pacific Telephone
1956	WAMBSGANS RICHARD M	Pacific Telephone

Hanna Ave

6837 Hanna Ave

Year	Uses	Source
2014	SOLOMON MARC	EDR Digital Archive
2010	SOLOMON MARC	EDR Digital Archive

HANNA AVE

6837 HANNA AVE

Year	Uses	Source
2004	SOLOMON Marc	Haines Company
1995	Solomon Marc	Pacific Bell
1991	Solomon Marc	Pacific Bell
	Solomonidlark	Pacific Bell
	Solomon Marlene	Pacific Bell
1985	Solomon Marc	Pacific Bell
	Solomon Marc	Pacific Bell
1970	LEASK PHILLIP	Pacific Telephone
	LEASK PHILLIP	Pacific Telephone
1965	LEASK PHILLIP	Pacific Telephone
1962	LEASK PHILLIP	Pacific Telephone

Year	Uses	Source
1956	TENNEY JACK	Pacific Telephone

6841 HANNA AVE

Year	Uses	Source
2004	KORNHIC	Haines Company
1995	Kornhi Frank Jr	Pacific Bell
1991	Komhi Frank Jr	Pacific Bell
1985	Kornhi Frank Jr	Pacific Bell
	Kornhi R	Pacific Bell
1980	KORNHI FRANK JR	Pacific Telephone
	KORNHI R	Pacific Telephone
1970	KORNHI FRANK JR	Pacific Telephone
	KORNHI FRANK JR	Pacific Telephone
1965	KORNHI FPRANK JR	Pacific Telephone
1956	HALVERSON ROBT WM	Pacific Telephone

6847 HANNA AVE

Year	Uses	Source
2004	VILLASENOR Siveriao	Haines Company
	VAQUERANO Maria	Haines Company
	ROJAS Aracely	Haines Company
1995	Villasenor Silverio	Pacific Bell
1980	BROOKS MICHAEL L	Pacific Telephone
1970	SWANSON ALVIN C	Pacific Telephone
	SWANSON ALVIN C	Pacific Telephone
1965	SWANSON ALVIN	Pacific Telephone
1962	SWANSON ALVIN C	Pacific Telephone
1956	SWANSON ALVIN C	Pacific Telephone

Schoolcraft St

22016 Schoolcraft St

Year	Uses	Source
2010	KITHSIRI FERNANDO	EDR Digital Archive

SCHOOLCRAFT ST

22016 SCHOOLCRAFT ST

Year	Uses	Source
2004	SALINAS Lucy Teresa	Haines Company

FINDINGS

Year	Uses	Source
1991	Chesley Richard S	Pacific Bell
	Construction Manpower Inc	Pacific Bell
1962	GAROFALO FRANK	Pacific Telephone
1956	GAROFALO FRANK	Pacific Telephone

22017 SCHOOLCRAFT ST

Year	Uses	Source
2004	COHN Bernard	Haines Company
1956	STRAND FRANK	Pacific Telephone

22020 SCHOOLCRAFT ST

Year	Uses	Source
2004	TORRES Cella	Haines Company
1962	QUINETTE JOS G	Pacific Telephone
1956	QUINETTE JOS G	Pacific Telephone

22021 SCHOOLCRAFT ST

Year	Uses	Source
1962	SELLARS EUGENE H	Pacific Telephone
1956	JOHNSON DALE H	Pacific Telephone

22026 SCHOOLCRAFT ST

Year	Uses	Source
2004	LATUHOI Slone	Haines Company
1980	PASSOVOY ANITA	Pacific Telephone
1970	PARKER DONALD R	Pacific Telephone
	PARKER DONALD R	Pacific Telephone

22027 SCHOOLCRAFT ST

Year	Uses	Source
2004	GONZALEZ Francisco	Haines Company
	ROSALESMarco Anlonio	Haines Company
1985	Myers Pearl Proctor	Pacific Bell
	Myers Paula	Pacific Bell
1980	BAKER ROBT C	Pacific Telephone
1975	Mc Keen Jas	Pacific Telephone
1970	FLURRY JUNE MRS	Pacific Telephone
	FLURRY JUNE MRS	Pacific Telephone
1962	FLURRY JUNE MRS	Pacific Telephone

FINDINGS

22029 SCHOOLCRAFT ST

Year	Uses	Source
2004	GONZALEZ Francisco	Haines Company
1962	PIETZ MILTON E	Pacific Telephone

Schoolcraft St

22030 Schoolcraft St

Year	Uses	Source
2014	770 LANGUAGE SERVICES	EDR Digital Archive

SCHOOLCRAFT ST

22030 SCHOOLCRAFT ST

Year	Uses	Source
2004	JOHNSON Vail	Haines Company
	JOHNSON Vail	Haines Company
1956	COOLIDGE MARGARET	Pacific Telephone

22031 SCHOOLCRAFT ST

Year	Uses	Source
2004	GARCIA Mario	Haines Company
1980	DAVISON MICHAEL L	Pacific Telephone
1970	KLEIN WINNIE MRS	Pacific Telephone
	KLEIN WINNIE MRS	Pacific Telephone
1962	CORTEZ CARLOS V	Pacific Telephone
1956	CORTEZ CARLOS V	Pacific Telephone

22036 SCHOOLCRAFT ST

Year	Uses	Source
2004	OBARRYGordon	Haines Company
	CARRILLOAlbert O	Haines Company
	CALDERON Rafael	Haines Company
	SANCHEZOtilea	Haines Company
1970	STANTON A H	Pacific Telephone
	STANTON A H	Pacific Telephone
1962	STANTON A H	Pacific Telephone

FINDINGS

Schoolcraft St

22037 Schoolcraft St

Year	Uses	Source
2014	ALL ABOUT PLUMBING	EDR Digital Archive
2010	ALL ABOUT PLUMBING	EDR Digital Archive
	NEW HORIZON REMODELING INC	EDR Digital Archive

SCHOOLCRAFT ST

22037 SCHOOLCRAFT ST

Year	Uses	Source
2004	CHAPA Maria	Haines Company
1991	Miller M H	Pacific Bell
1985	Miller M H	Pacific Bell
1980	MILLER M H CANOGA CITY	Pacific Telephone
1970	MILLER MARY MRS	Pacific Telephone
	MILLER MARY MRS	Pacific Telephone
1962	MILLER MARY MRS	Pacific Telephone
1956	MILLER MARY MRS	Pacific Telephone

22040 SCHOOLCRAFT ST

Year	Uses	Source
2004	PINALuz	Haines Company
1962	ALCALA MANUEL M	Pacific Telephone
1956	FINCHUM ARNOLD	Pacific Telephone

22041 SCHOOLCRAFT ST

Year	Uses	Source
2004	no info	Haines Company
1991	Fisher JW&BL	Pacific Bell
	Fisher James	Pacific Bell
	Fisher J Norman	Pacific Bell
	Fisher J&V	Pacific Bell
	Fisher J & T	Pacific Bell
1985	Fisher J Norman	Pacific Bell
	Fisher J & V	Pacific Bell
	Fisher J W & Bl L	Pacific Bell
1980	FISHER J NORMAN	Pacific Telephone
1970	FISHER J NORMAN	Pacific Telephone

FINDINGS

Year	Uses	Source
1970	FISHER J NORMAN	Pacific Telephone
1962	FISHER J NORMAN	Pacific Telephone
1956	GALE PAUL	Pacific Telephone

22045 SCHOOLCRAFT ST

Year	Uses	Source
2004	SOLIS Rodolfo	Haines Company
	SILVAOlga Lidia	Haines Company

22046 SCHOOLCRAFT ST

Year	Uses	Source
1985	Grigsby Chris	Pacific Bell
	Grigsby Gene	Pacific Bell
1970	RAMIREZ J M	Pacific Telephone
	RAMIREZ J M	Pacific Telephone
	CHOATE JAS	Pacific Telephone
	CHOATE JAS	Pacific Telephone

22050 SCHOOLCRAFT ST

Year	Uses	Source
2004	PAULUSChristopher	Haines Company
1991	Mussey L	Pacific Bell
1985	Mussey L	Pacific Bell
1980	MUSSEY L	Pacific Telephone
1970	TUCKER OPAL P	Pacific Telephone
	TUCKER OPAL P	Pacific Telephone
1962	PINA RAUL	Pacific Telephone
1956	MCLAUCHLAN JACK H	Pacific Telephone

22051 SCHOOLCRAFT ST

Year	Uses	Source
2004	SCORRALEJOPaul	Haines Company
	MEDINALaura	Haines Company
1962	CHARA ANTHONY J	Pacific Telephone
1956	FERNANDEZ JIM	Pacific Telephone

22056 SCHOOLCRAFT ST

Year	Uses	Source
2004	GEBRO Wayne	Haines Company
	HENNEMAN Maria	Haines Company

FINDINGS

22057 SCHOOLCRAFT ST

Year	Uses	Source
2004	no info	Haines Company
1962	MC KAUGHAN ROY L	Pacific Telephone
1956	MCKAUGHAN ROY L	Pacific Telephone

TOPANGA CANYON BLVD

6801 TOPANGA CANYON BLVD

Year	Uses	Source
2004	no info	Haines Company

6813 TOPANGA CANYON BLVD

Year	Uses	Source
1970	FOUR-DAY TIRE STORES	Pacific Telephone
	FOUR-DAY TIRE STORES	Pacific Telephone
1965	WESTWA0 AUTO SUPPLY	Pacific Telephone
1962	WESTWARD AUTO SUPPLY	Pacific Telephone
1956	CANOGA CHICKEN HOUSE	Pacific Telephone
	CANOGA CHICKEN HOUSE	Pacific Telephone
1950	STOP & GO INN CAFE	Pacific Telephone
	STOP & GO INN CAFE	Pacific Telephone

6819 TOPANGA CANYON BLVD

Year	Uses	Source
2004	no info	Haines Company
1995	Color Tile Supermart	Pacific Bell
	Wondland iills	Pacific Bell
1991	PC H Burgers	Pacific Bell
	Pacific Coast Hamburger	Pacific Bell
1980	HI BURGERS	Pacific Telephone
1970	ORANGE JULIUS STORES	Pacific Telephone
	ORANGE JULIUS STORES	Pacific Telephone

6823 TOPANGA CANYON BLVD

Year	Uses	Source
1962	DEMPSEY POOLS	Pacific Telephone
1956	JULIO DON RL EST	Pacific Telephone

FINDINGS

Topanga Canyon Blvd

6829 Topanga Canyon Blvd

Year	Uses	Source
2014	TOP CAR INC	EDR Digital Archive
	VENTURA SHOUP CARWASH INC	EDR Digital Archive
	TOPANGA TUNNEL CAR WASH CORP	EDR Digital Archive
2010	TOP CAR INC	EDR Digital Archive
	TOPANGA TUNNEL CAR WASH CORP	EDR Digital Archive
	TSK PROPERTY MANAGEMENT INC	EDR Digital Archive
	MOSLEHI ARASH	EDR Digital Archive

TOPANGA CANYON BLVD

6829 TOPANGA CANYON BLVD

Year	Uses	Source
2004	TOPANGA CAR WASH	Haines Company
1980	TOPANGA CAR WASH-KAAR LTD	Pacific Telephone
1965	OTOPANGA CAR WASH	Pacific Telephone
1962	TOPANGA CAR WASH	Pacific Telephone

Topanga Canyon Blvd

6841 Topanga Canyon Blvd

Year	Uses	Source
2014	IN-N-OUT BURGERS	EDR Digital Archive
2010	IN-N-OUT BURGERS	EDR Digital Archive

TOPANGA CANYON BLVD

6841 TOPANGA CANYON BLVD

Year	Uses	Source
2004	KRISPYKREME	Haines Company
1980	INTERNATIONAL HOUSE OF PANCAKES THE	Pacific Telephone
1975	Canoga Park	Pacific Telephone
1970	INTERNATIONAL HOUSE OF PANCAKES THE RESTAURANTS	Pacific Telephone
	INTERNATIONAL HOUSE OF PANCAKES THE RESTAURANTS	Pacific Telephone

FINDINGS

Topanga Canyon Blvd

6849 Topanga Canyon Blvd

Year	Uses	Source
2014	SHERWIN-WILLIAMS COMPANY	EDR Digital Archive

TOPANGA CANYON BLVD

6849 TOPANGA CANYON BLVD

Year	Uses	Source
2004	OUIZNO S CLASSIC	Haines Company

Topanga Canyon Blvd

6851 Topanga Canyon Blvd

Year	Uses	Source
2010	QUICKIE GRILL CP INC	EDR Digital Archive
	ZARRO CHICKEN	EDR Digital Archive

TOPANGA CANYON BLVD

6851 TOPANGA CANYON BLVD

Year	Uses	Source
1980	THRIFTY OIL CO	Pacific Telephone
1970	THOMPSONS AMERICAN SERVICE	Pacific Telephone
	THOMPSONS AMERICAN SERVICE	Pacific Telephone
1962	CITY NATL BANK	Pacific Telephone
	CITY NATL BANK OF BEVERLY HILLS	Pacific Telephone
1950	THOMASON GEO W R	Pacific Telephone
	THOMASON GEO W R	Pacific Telephone
1940	Thomason Geo W o	Los Angeles Directory Co.

Topanga Canyon Blvd

6855 Topanga Canyon Blvd

Year	Uses	Source
2010	OCEANVIEW WIRELESS LLC	EDR Digital Archive

FINDINGS

TOPANGA CANYON BLVD

6855 TOPANGA CANYON BLVD

Year	Uses	Source
2004	AT&TWIRELESS	Haines Company
	AL& ED S AUTOSOUND	Haines Company
	SOUND	Haines Company
	STORE	Haines Company
	AL ED SAUTO	Haines Company

Topanga Canyon Blvd

6859 Topanga Canyon Blvd

Year	Uses	Source
2014	PANDA RESTAURANT GROUP INC	EDR Digital Archive
2010	PANDA MANAGEMENT COMPANY INC	EDR Digital Archive

TOPANGA CANYON BLVD

6859 TOPANGA CANYON BLVD

Year	Uses	Source
2004	PANDA EXPRESS NO	Haines Company

6892 TOPANGA CANYON BLVD

Year	Uses	Source
1970	TOPANGA CAR WASH	Pacific Telephone
	TOPANGA CAR WASH	Pacific Telephone

Topanga Canyon Blvd

6901 Topanga Canyon Blvd

Year	Uses	Source
2014	CANOGA PARK FLOWERS GIFTS	EDR Digital Archive
	WELBY MEDICAL SERVICES INC	EDR Digital Archive
	BLA PROPERTIES & LOANS	EDR Digital Archive
	JMK DENTAL LABORATORY	EDR Digital Archive
	AVAILABLE NRSES HME HLTH STAFF	EDR Digital Archive
	MEDIA GROUP	EDR Digital Archive
2010	MEDIA GROUP	EDR Digital Archive
	ISAACS FLOWERS	EDR Digital Archive
	ADESANMI ISAAC	EDR Digital Archive

FINDINGS

Year	Uses	Source
2010	JMK DENTAL LABORATORY	EDR Digital Archive
	MAKAI INC	EDR Digital Archive
	ROSIN & ASSOC	EDR Digital Archive
	ANNIES LEATHER SHOP	EDR Digital Archive
	ECONDO ESCROW	EDR Digital Archive
	WELBY MEDICAL SERVICES INC	EDR Digital Archive
	VARTEL	EDR Digital Archive
	GABRIELS FLORIST	EDR Digital Archive
	FIRST HOME FOUNDATION INC	EDR Digital Archive
	CENTRACOM INC	EDR Digital Archive

TOPANGA CANYON BLVD

6901 TOPANGA CANYON BLVD

Year	Uses	Source
2004	BUILDING	Haines Company
	AMER FARSI NETWORK	Haines Company
	BMBINVESTMENTS	Haines Company
	CA HOME AND LOAN	Haines Company
	CAHOMES AND LOAN	Haines Company
	GABRIEL S FLORIST	Haines Company
	JMK DENTAL	Haines Company
	LABORATORY	Haines Company
	LEXIKORLLC	Haines Company
	MEDIA GROUPTHE	Haines Company
	MEDIA GROUPTHE	Haines Company
	RADIO YARAN	Haines Company
	ROSIN & ASSOCIATES	Haines Company
	SENSATION	Haines Company
	VARTEL	Haines Company
	VISITING ANGELS	Haines Company
1995	Copy W I	Pacific Bell
	Euromacc Pacific Enterprises Inc	Pacific Bell
	Game Exchange	Pacific Bell
	Quicksilver Printing & Graphics	Pacific Bell
1991	American Speedy Printing Centers	Pacific Bell
	S & D Corp	Pacific Bell
	S D Costa Interiors Ferguson Sandra IS ID American Contractors & Design	Pacific Bell

FINDINGS

Year	Uses	Source
1986	DAPPER DAN S SKI & SPORTS TOURS CANOGA PARK	Pacific Bell
1985	Dorfman Ray Realty	Pacific Bell
	Total Experience Styling Salon	Pacific Bell
	Total Exterminating	Pacific Bell
	Alcola Financial	Pacific Bell
	Beem Rudy ins	Pacific Bell
	PCE Distributing	Pacific Bell
1980	BEEM RUDY INS	Pacific Telephone
	COAST STEREO	Pacific Telephone
	PHILIPPO WALTER INSURANCE AGENCY	Pacific Telephone
	RAMPIES JOHN JACK INS	Pacific Telephone
	TOTAL EXPERIENCE STYLING SALON	Pacific Telephone
	HONG JOHN INS CANOGA PARK	Pacific Telephone
	HONG JOHN INSURANCE AGENCY CANOGA PARK	Pacific Telephone
	DORFMAN RAY REALTY	Pacific Telephone
1970	BOB WILLIAMS INC TAX CONSLTNT	Pacific Telephone
	CANOGA PARK ALTERATION CENTER	Pacific Telephone
	CANOGA PARK REWEAVERS	Pacific Telephone
	CONTINENTAL TUX SHOP	Pacific Telephone
	DORFMAN RAY REALTY	Pacific Telephone
	ELECTRONIC PHONICS TUTORING SERVICE	Pacific Telephone
	KEY REALTY	Pacific Telephone
	PRINTERS DEVIL TYPOGRAPHY	Pacific Telephone
	WILLIAMS BOB INC TAX	Pacific Telephone
	WILLIAMS ROBT C INC TAX	Pacific Telephone
	BARBARA S BEAUTY SUITE	Pacific Telephone
	BOB WILLIAMS INC TAX CONSLTNT	Pacific Telephone
	CANOGA PARK ALTERATION CENTER	Pacific Telephone
	CANOGA PARK REWEAVERS	Pacific Telephone
	CONTINENTAL TUX SHOP	Pacific Telephone
	DORFMAN RAY REALTY	Pacific Telephone
	ELECTRONIC PHONICS TUTORING SERVICE	Pacific Telephone
	KEY REALTY	Pacific Telephone
	PRINTERS DEVIL TYPOGRAPHY	Pacific Telephone
	WILLIAMS BOB INC TAX	Pacific Telephone

Year	Uses	Source
1970	WILLIAMS ROBT C INC TAX	Pacific Telephone
	BARBARA S BEAUTY SUITE	Pacific Telephone
1965	OTOWNE / COUNTRY REALTY	Pacific Telephone
	ROBOR WILLIAMS	Pacific Telephone
	DHNTMMAL A J8B	Pacific Telephone
	QVOSS TYPEWRI TER CO	Pacific Telephone
	CROZIER / WEINER	Pacific Telephone
	CUMHUNLITY ANSWERING SERV	Pacific Telephone
	NEEDIAM-SMITHAM	Pacific Telephone

Topanga Canyon Blvd

6903 Topanga Canyon Blvd

Year	Uses	Source
2014	TATYANA MARKET	EDR Digital Archive
2010	TATYANA MARKET	EDR Digital Archive
	SUPER VANAK	EDR Digital Archive
	U OTTO BEE DRIVING SCHOOL A GE	EDR Digital Archive
	TROPICAL JUICES	EDR Digital Archive

TOPANGA CANYON BLVD

6903 TOPANGA CANYON BLVD

Year	Uses	Source
2004	UOTTOBEE	Haines Company
	DRIVINGI&TRAFFIC SC	Haines Company
1995	All Pro Tee Kwon Do & Karate	Pacific Bell
1991	Artistic Balloons	Pacific Bell
1985	Cooper E	Pacific Bell
	Cooper E Bl	Pacific Bell
	Dial TV	Pacific Bell
	Dial TV Rental	Pacific Bell
1980	PUBLIC FINANCE CORPORATION OTHER OFFICES	Pacific Telephone
1975	Canoga Park	Pacific Telephone
1970	PUBLIC FINANCE CORPORATIONS OTHER OFFICES-	Pacific Telephone
	PUBLIC FINANCE CORPORATIONS OTHER OFFICES-	Pacific Telephone
1965	OBBEBIES ACCESSORIES	Pacific Telephone

FINDINGS

6907 TOPANGA CANYON BLVD

Year	Uses	Source
1962	VOGT FREDERICK J	Pacific Telephone
1956	CRANDALL GEO	Pacific Telephone
1950	CRANDALL GEO R	Pacific Telephone
	CRANDALL GEO R	Pacific Telephone

Topanga Canyon Blvd

6911 Topanga Canyon Blvd

Year	Uses	Source
2014	MEDICAL BILLING SERVICES	EDR Digital Archive
	CYBER GAMING LLC	EDR Digital Archive
	STRONG MANAGEMENT SERVICES INC	EDR Digital Archive
	PRIME EAST ASSOCIATE LLC	EDR Digital Archive
	PIXOTRON LLC	EDR Digital Archive
	COMMERCIAL CAPITL RECOVERY INC	EDR Digital Archive
	FALLBROOK SHOE REPAIR	EDR Digital Archive
	MONEY MLER CNTL SAN FRNNDO VLY	EDR Digital Archive
	SMART SAVER MAGAZINE	EDR Digital Archive
	BREVIDORO STEVE INSURANCE AGCY	EDR Digital Archive
	KARI ROBERT INSURANCE	EDR Digital Archive
	HAINES EARL	EDR Digital Archive
	EXPAND ANIMAL RIGHTS NOW	EDR Digital Archive
	US SOLAR WAY INC	EDR Digital Archive
	BEST BUILDERS	EDR Digital Archive
	BBG CABINETS WHOLESALE	EDR Digital Archive
	MALIBU FUNDING INC	EDR Digital Archive
2010	CAR FIDELITY	EDR Digital Archive
	BEST BUILDERS	EDR Digital Archive
	REYES EMELITO DDS	EDR Digital Archive
	ALAJAJIAN NAZARAT	EDR Digital Archive
	GEVORK ALADZHADZHYAN	EDR Digital Archive
	BREVIDORO STEVE INSURANCE AGCY	EDR Digital Archive
	KARI ROBERT INSURANCE	EDR Digital Archive
	SMART SAVER MAGAZINE	EDR Digital Archive
	FALLBROOK SHOE REPAIR	EDR Digital Archive
	SECOND ALLIANCE INC	EDR Digital Archive
	COMMERCIAL CAPITL RECOVERY INC	EDR Digital Archive

Year	Uses	Source
2010	ANIMAS CORPORATION	EDR Digital Archive
	PIXOTRON LLC	EDR Digital Archive
	KM MANAGEMENT	EDR Digital Archive
	MONEY MLER CNTL SAN FRNNDO VLY	EDR Digital Archive
	MONEY MAILER SAN FERNANDO VLY	EDR Digital Archive
	CALIFORNIA ASSOCIATION OF LIC	EDR Digital Archive
	CYBER GAMING LLC	EDR Digital Archive

TOPANGA CANYON BLVD

6911 TOPANGA CANYON BLVD

Year	Uses	Source
2004	BUILDING	Haines Company
	ADVANCEMORTGAGE	Haines Company
	RESOURCE	Haines Company
	ADVANCED	Haines Company
	MARKETING	Haines Company
	ADVANCED	Haines Company
	MARKETING	Haines Company
	ADVANCED	Haines Company
	MORTGAGE	Haines Company
	RESOURCES	Haines Company
	AGENCY	Haines Company
	DREAMMAKERS	Haines Company
	ENTERPRISE	Haines Company
	FALLBROOKSHOE	Haines Company
	REPAIR	Haines Company
	NEVIS FUNDING	Haines Company
	CORPORATION	Haines Company
	PAEGREENE HILLARY	Haines Company
	PLANETCYBER	Haines Company
	REYESEMIUTO R DDS	Haines Company
	ROBERTKARI	Haines Company
	INSURANCE	Haines Company
	SCHULER INSURANCE	Haines Company
	AGENCY	Haines Company
1995	Computer Ease	Pacific Bell
	De Shields Jack F	Pacific Bell
	Desi Air Conditioning & Heating	Pacific Bell

FINDINGS

Year	Uses	Source
1995	Gary Tosounian & Associates	Pacific Bell
	Jay Jay Lock & Security	Pacific Bell
	Kargoodorian Vram JDDS	Pacific Bell
	! Kari Robert Insurance	Pacific Bell
	L D Video	Pacific Bell
	Rosstar Insurance Brokers Inc Farmers Insurance Agency	Pacific Bell
	Taylor Jim Insurance Agency	Pacific Bell
1991	ARD Enterprises	Pacific Bell
	From Los Angeles Telephones Cat	Pacific Bell
	From Van Nuys Telephones Call	Pacific Bell
	Car Fidelity	Pacific Bell
	Gary Tosounian & Associates	Pacific Bell
	Gary Warner Agency	Pacific Bell
	Jay Jay Lock & Security	Pacific Bell
	Jay Larry M	Pacific Bell
	Kari Robert Insurance	Pacific Bell
	Kari Ron Associates	Pacific Bell
	Porush Structural Engineers Inc	Pacific Bell
	Rosstar Insurance Brokers Inc	Pacific Bell
	Rossteuscher BH	Pacific Bell
	Warner Center Lock & Key Service	Pacific Bell
	ARMServices	Pacific Bell
	ARN	Pacific Bell
	JJ Lock & Security	Pacific Bell
1985	Car Fidelity	Pacific Bell
	Car Glow auto waxing PO Box 615 CPk P	Pacific Bell
	Kalligraphics	Pacific Bell
	Kirk Mayer Inc	Pacific Bell
	OHara Ron ins	Pacific Bell
	Plat Jack ins	Pacific Bell
	Plot MS	Pacific Bell
	Sterling Realty	Pacific Bell
	Diversified Agriculture Inc	Pacific Bell
	Diversified Apartment Services	Pacific Bell
	Four Seasons Air Conditioning & Heatng	Pacific Bell
	J & R Insurance Brokers	Pacific Bell
	Lees Mel & Associates Inc	Pacific Bell
	Lees Melvin & Barbara	Pacific Bell

FINDINGS

Year	Uses	Source
1985	Lees Mindy	Pacific Bell
	Mc Spadden Paul T Service Engineering Co jantril	Pacific Bell
	Micro Comtech Inc	Pacific Bell
	Nofziger Jas C consltng anml nutritnst	Pacific Bell
	Nursing Institute Of Continuing Education Inc	Pacific Bell
	Personal Computers Etc	Pacific Bell
	Personal Computers Etc	Pacific Bell
	Peterson Francis H CPA	Pacific Bell
	Rexnord Inc	Pacific Bell
	Seal Division Rexnord Inc	Pacific Bell
	Service Engineering Co jantrl	Pacific Bell
	Trivent Engineering	Pacific Bell
	Trivers Dan S	Pacific Bell
	VAN N UYS RUBBE R S TAMP & S E AL CO Canoga Park	Pacific Bell
1981	YASHAR DAVID ARCHT CANOGA PARK	Pacific Telephone
1980	CUTCO DISTRIBUTORS	Pacific Telephone
	A AARONS DIAL TV RENTAL	Pacific Telephone
	A AARONS DIAL TV RENTAL	Pacific Telephone
	ALPINE AIR CONDITIONING CORP	Pacific Telephone
	BATCHELOR BUSINESS MACHINES	Pacific Telephone
	C H TRADING CO	Pacific Telephone
	CANOGA EMPLOYMENT AGENCY	Pacific Telephone
	CAREER RESUME SERVICE	Pacific Telephone
	CONSOLIDATED ENTERPRISES	Pacific Telephone
	DIAL TV	Pacific Telephone
	DIAL TV RENTAL	Pacific Telephone
	DIVERSIFIED AGRICULTURE INC	Pacific Telephone
	KALLIGRAPHICS	Pacific Telephone
	KENT ROBERT C ATTY	Pacific Telephone
	MCSPADDEN PAUL T SERVICE ENGINEERING CO JANTRL	Pacific Telephone
	MORRIS PLAN COMPANY OF CALIFORNIA	Pacific Telephone
	NOFZIGER JAS C CONSLTNG ANML NUTRITNST	Pacific Telephone
	NORRIS DAVID B MNGMNT CONSLTNT	Pacific Telephone
	PENNYSAVER SALES OFFICES	Pacific Telephone

FINDINGS

Year	Uses	Source
1980	PETERSON FRANCIS H CPA	Pacific Telephone
	PROFESSIONAL RESUME SERVICE	Pacific Telephone
	SERVICE ENGINEERING CO JANTRL	Pacific Telephone
	WEAR-EVER ALUMINUM	Pacific Telephone
	WEBB GEORGE MC NEIL II ATTY	Pacific Telephone
	YASHAR DAVID DESIGNS	Pacific Telephone
1976	Canoga Park	Pacific Telephone
	PACIFIC TELEPHONE BUSINESS OFFICES LOS ANGELES EMPLOYMENT OFFICES	Pacific Telephone
1975	Kraft Ins	Pacific Telephone
	MEXICAN IMPORT STORES	Pacific Telephone
	National Business Consultants	Pacific Telephone
	Canoga Park	Pacific Telephone
1970	ANNAND DOUGLASS R	Pacific Telephone
	CANOGA EMPLOYMENT AGENCY	Pacific Telephone
	COMPUMET INC	Pacific Telephone
	DELLAMATER KENNETH N ATTY	Pacific Telephone
	DIVERSIFIED AGRICULTURE INC	Pacific Telephone
	GRAPHICS II	Pacific Telephone
	HELENA GOWNS & TUXEDOS	Pacific Telephone
	HILTON INDUSTRIES	Pacific Telephone
	PETERSON FRANCIS H CPA	Pacific Telephone
	SAROIAN STEPHEN A ATTY	Pacific Telephone
	WALTERS BYRON J ATTY	Pacific Telephone
	HILTON WATCH CO	Pacific Telephone
	IDEAS INCORPORATED CONSLTNG ENGNRS	Pacific Telephone
	KENT ROBT C ATTY	Pacific Telephone
	LAHR-SIMONS INC	Pacific Telephone
	LAHR-SIMONS INC	Pacific Telephone
	LE FAD PAD	Pacific Telephone
	NOFZIGER JAS C CONSLTNG ANML NUTRITNST	Pacific Telephone
	PACE TEMPORARY SERVICE	Pacific Telephone
	PACIFIC TELEPHONE BUSINESS OFFICES	Pacific Telephone
	PETERSON FRANCIS H CPA	Pacific Telephone
	SAROIAN STEPHEN A ATTY	Pacific Telephone
	WALTERS BYRON J ATTY	Pacific Telephone

FINDINGS

Year	Uses	Source
1970	ANNAND DOUGLASS R	Pacific Telephone
	CANOGA EMPLOYMENT AGENCY	Pacific Telephone
	COMPUMET INC	Pacific Telephone
	DELLAMATER KENNETH N ATTY	Pacific Telephone
	DIVERSIFIED AGRICULTURE INC	Pacific Telephone
	GRAPHICS II	Pacific Telephone
	HELENA GOWNS & TUXEDOS	Pacific Telephone
	HILTON INDUSTRIES	Pacific Telephone
	HILTON WATCH CO	Pacific Telephone
	IDEAS INCORPORATED CONSLTNG ENGNRS	Pacific Telephone
	KENT ROBT C ATTY	Pacific Telephone
	LAHR-SIMONS INC	Pacific Telephone
	LAHR-SIMONS INC	Pacific Telephone
	LE FAD PAD	Pacific Telephone
	NOFZIGER JAS C CONSLTNG ANML NUTRITNST	Pacific Telephone
	PACE TEMPORARY SERVICE	Pacific Telephone
	PACIFIC TELEPHONE BUSINESS OFFICES	Pacific Telephone
	MORRIS PLAN COMPANY OF CALIFORNIA CANOGA PARK OFC	Pacific Telephone
	MORRIS PLAN COMPANY OF CALIFORNIA CANOGA PARK OFC	Pacific Telephone
1967	FIRST THRIFT OF AMERICA	Pacific Telephone
	Canoga Park	Pacific Telephone

6913 TOPANGA CANYON BLVD

Year	Uses	Source
1956	SELLARDS EUGENE H	Pacific Telephone
1940	Hess Sarah Mrs	Los Angeles Directory Co.

Topanga Canyon Blvd

6921 Topanga Canyon Blvd

Year	Uses	Source
2014	TACO BELL CORP	EDR Digital Archive
2010	TACO BELL CORP	EDR Digital Archive

FINDINGS

TOPANGA CANYON BLVD

6921 TOPANGA CANYON BLVD

Year	Uses	Source
2004	TACOBELL	Haines Company
1985	Canoga Park	Pacific Bell
1980	PUP N TACO DRIVE UP	Pacific Telephone
1970	TEXAS TOMMY S	Pacific Telephone
	TEXAS TOMMY S	Pacific Telephone

Topanga Canyon Blvd

6931 Topanga Canyon Blvd

Year	Uses	Source
2014	MODERN ALLURE INC	EDR Digital Archive
2010	MODERN ALLURE INC	EDR Digital Archive
	NEVILLE TOM	EDR Digital Archive
	COEN DAN	EDR Digital Archive
	IMPACT PROMOTIONAL PRODUCTS	EDR Digital Archive
	PRINTIST COMPANY	EDR Digital Archive
	TOTAL PROFESSIONAL ORGANIZER	EDR Digital Archive

TOPANGA CANYON BLVD

6931 TOPANGA CANYON BLVD

Year	Uses	Source
1995	Allstate Insurance Companies	Pacific Bell
	Leslies Luggage	Pacific Bell
	Kiesling Entertainment Video	Pacific Bell
1991	Brochure Masters	Pacific Bell
	Brocious Kenneth	Pacific Bell
	Brocious Y	Pacific Bell
	Brocious Y	Pacific Bell
	Brock A	Pacific Bell
	Elm Construction Inc	Pacific Bell
	Elm Jason C	Pacific Bell
	Elm Matthew	Pacific Bell
	Home Tune Up Co	Pacific Bell
	Ins Pol Video	Pacific Bell
	Insalaco A Tun	Pacific Bell

FINDINGS

Year	Uses	Source
1991	On Target Marketing	Pacific Bell
	Response Advertising & Telemarketing	Pacific Bell
	Rice Bill & Associates	Pacific Bell
	Savinar H Luggage Co	Pacific Bell
	A S C Graphics	Pacific Bell
1985	Bankers Land Realty Co	Pacific Bell
	Ross Dewitt Jr	Pacific Bell
	Tribble Thomas D	Pacific Bell
	ADE Search	Pacific Bell
	Professional Resume Service	Pacific Bell
	Ofc	Pacific Bell
1980	SUGAR STAN & ASSOCIATES CANOGA PARK	Pacific Telephone
	ROSS DEWITT JR	Pacific Telephone
	SPECTRUM BUILDERS INC CONTRS	Pacific Telephone
	SPECTRUM LAND PLANNING	Pacific Telephone
	TWO GUYS FROM ITALY	Pacific Telephone
1975	Hull Trucking	Pacific Telephone
1970	ALLISON & HINKLE REAL ESTATE	Pacific Telephone
	BEAMER GLENN INS	Pacific Telephone
	BOURNS EUPHONICS	Pacific Telephone
	DE LONGPRE JACK INS	Pacific Telephone
	ECKHOLDT WM E INS	Pacific Telephone
	JEFFERSON STANDARD LIFE INS	Pacific Telephone
	MARCON CO THE	Pacific Telephone
	ROSS DEWITT JR	Pacific Telephone
	ALLISON & HINKLE REAL ESTATE	Pacific Telephone
	BEAMER GLENN INS	Pacific Telephone
	BOURNS EUPHONICS	Pacific Telephone
	DE LONGPRE JACK INS	Pacific Telephone
	ECKHOLDT WM E INS	Pacific Telephone
	JEFFERSON STANDARD LIFE INS	Pacific Telephone
	MARCON CO THE	Pacific Telephone
	ROSS DEWITT JR	Pacific Telephone
1962	GATES & WOSKOW INS AGCY	Pacific Telephone

6933 TOPANGA CANYON BLVD

Year	Uses	Source
1970	TWO GUYS FROM ITALY PIZZA HSE	Pacific Telephone

Year	Uses	Source
1970	TWO GUYS FROM ITALY PIZZA HSE	Pacific Telephone
	TWO GUYS FROM ITALY	Pacific Telephone
	TWO GUYS FROM ITALY	Pacific Telephone
1965	OTUM KI1G / ASSOC	Pacific Telephone

6935 TOPANGA CANYON BLVD

Year	Uses	Source
1970	PANT HOUSE THE	Pacific Telephone
	PANT HOUSE THE	Pacific Telephone
1962	DAVIS & KING REALTY	Pacific Telephone

6937 TOPANGA CANYON BLVD

Year	Uses	Source
2004	no info	Haines Company
1980	BARONET THEATRE	Pacific Telephone
1970	BARONET THEATRE	Pacific Telephone
	BARONET THEATRE	Pacific Telephone
1965	0VALLEY WE ST THEATRE	Pacific Telephone
1956	SMITH EVA E	Pacific Telephone
1950	MONTGOMERY H G R	Pacific Telephone
	MONTGOMERY H G R	Pacific Telephone

6939 TOPANGA CANYON BLVD

Year	Uses	Source
2004	no info	Haines Company
1991	Blue Chip Drapery	Pacific Bell

Topanga Canyon Blvd

6941 Topanga Canyon Blvd

Year	Uses	Source
2014	CATALINA INDUSTRIES INC	EDR Digital Archive
2010	CATALINA INDUSTRIES INC	EDR Digital Archive

TOPANGA CANYON BLVD

6941 TOPANGA CANYON BLVD

Year	Uses	Source
2004	CATALINA PAINT	Haines Company
	STORES	Haines Company

Year	Uses	Source
2004	FINE PAINTSOF	Haines Company
	EUROPE	Haines Company
	PAINTS	Haines Company
	BENJAMIN MOORE	Haines Company
1991	Brand Bed Warehouse	Pacific Bell
1985	VALLE Y PE DIATRIC ME DICAL GROUP IN C	Pacific Bell
	Valley Patrol & Guard	Pacific Bell
	VALLE Y PATROL 7801777	Pacific Bell
	VALLE Y PARK S TATION E RS	Pacific Bell
1980	VALLEY PARK STATIONERS	Pacific Telephone
1970	ACADEMY OF DANCE AND RELATED ARTS	Pacific Telephone
	ACADEMY OF DANCE AND RELATED ARTS	Pacific Telephone

6943 TOPANGA CANYON BLVD

Year	Uses	Source
1962	MONTOND S CLEANERS	Pacific Telephone

6945 TOPANGA CANYON BLVD

Year	Uses	Source
2004	no info	Haines Company
1995	Hair & Nail Shoppe The	Pacific Bell
	Hair & Nail Shoppe The	Pacific Bell
	Magda	Pacific Bell
	Phythian Valerie	Pacific Bell
1991	A Hair & Nail Company	Pacific Bell
1985	Hair & Nail Shoppe The	Pacific Bell
1980	LAVINA S HAIR FASHIONS	Pacific Telephone
	VIS HAIR FASHIONS	Pacific Telephone
1970	FRANK S WIG CENTER	Pacific Telephone
	LA REINA HOUSE OF	Pacific Telephone
	HOUSE OF LA REINA	Pacific Telephone
	FRANK S WIG CENTER	Pacific Telephone
	FRANK S WIG CENTER	Pacific Telephone
	LA REINA HOUSE OF	Pacific Telephone
	HOUSE OF LA REINA	Pacific Telephone
	FRANK S WIG CENTER	Pacific Telephone
1965	HOUSE OF SILHOULETTES H	Pacific Telephone

Year	Uses	Source
1965	TRACEYS CA RD N PARTY SHO	Pacific Telephone

6947 TOPANGA CANYON BLVD

Year	Uses	Source
2004	no info	Haines Company

6949 TOPANGA CANYON BLVD

Year	Uses	Source
2004	BRASS BEDS	Haines Company
	UNLIMITED	Haines Company
	BEDS UNLIMITED	Haines Company
1991	Bedspread Warehouse	Pacific Bell
1980	UNIVERSITY STEREO CANOGA PARK	Pacific Telephone
1970	BIG 5 SPORTING GOODS BURBANK STORE	Pacific Telephone
	BIG 5 SPORTING GOODS BURBANK STORE	Pacific Telephone
1965	MELDONS SHOE HART	Pacific Telephone
1962	URBANOVSKY ERNEST J	Pacific Telephone
1956	URBANOVSKY ERNEST J	Pacific Telephone

6813 1/2 TOPANGA CANYON BLVD

Year	Uses	Source
1970	VERN S TRANSMISSION & AUTO REPAIR	Pacific Telephone
	VERN S AUTOMOTIVE & TRANSMISSION SERVICE	Pacific Telephone
	VERN S TRANSMISSION & AUTO REPAIR	Pacific Telephone
	VERN S AUTOMOTIVE & TRANSMISSION SERVICE	Pacific Telephone

VANOWEN

22019 VANOWEN

Year	Uses	Source
1986	COMPUTER GREETINGS CORP GIGANTICGRAM CANOGA PARK	Pacific Bell
1985	GIGANTICGRAM-COMPUTER GREETINGS CORP	Pacific Bell
	COMPUTER GREETINGS CORP-GIGANTLCGRAM	Pacific Bell

Year	Uses	Source
1981	SCHACTER ROBT DDS MS A PROFESSIONAL CORP ORTHODONTICS CANOGA PARK	Pacific Telephone
	GREETINGS CORP CANOGA PARK	Pacific Telephone

22027 VANOWEN

Year	Uses	Source
1986	LEE S BARS N STOOLS N DINETTES STORES CANOGA PARK	Pacific Bell
1985	LEE S BARS N STOOLS N DINETTES	Pacific Bell

VANOWEN ST

21900 VANOWEN ST

Year	Uses	Source
1980	MARTIN STANLEY B DR CANOGA PARK	Pacific Telephone

Vanowen St

22000 Vanowen St

Year	Uses	Source
2014	MARONEY MICHAEL J	EDR Digital Archive
	LANDAU JOYCE	EDR Digital Archive
	LEWIS RONALD J ATTORNEY AT LAW	EDR Digital Archive
	MILMAN R GEORGE ATTORNEY	EDR Digital Archive
	BENNETT SCOTT ELECTRIC	EDR Digital Archive
	DONNER SUSAN MD	EDR Digital Archive
	PROVOCATIVE PINATAS	EDR Digital Archive
	CERTIFIED PROPERTIES INSPECTIO	EDR Digital Archive
	BRIAN HULL CONSTRUCTION	EDR Digital Archive
2010	FORGES BIII CONSTRUCTTON	EDR Digital Archive
	GOSSARD THOMAS CONSTRUCTION CO	EDR Digital Archive
	BRIAN HULL CONSTRUCTION	EDR Digital Archive
	TREE SCAPES	EDR Digital Archive
	PAUL DAVIS INS & FINCL SVCS	EDR Digital Archive
	SIMMS LIMOUSINE	EDR Digital Archive
	TOPANGA PLZ STORES SPCLTY SHOP	EDR Digital Archive
	A B LENOIL CATERING	EDR Digital Archive
	HAPCO GROUP	EDR Digital Archive
	BILL JACKSON SWIMMING POOL SER	EDR Digital Archive

FINDINGS

Year	Uses	Source
2010	CERTIFIED PROPERTIES INSPECTIO	EDR Digital Archive
	PROVOCATIVE PINATAS	EDR Digital Archive
	BON TERMITE & PEST CONTROL	EDR Digital Archive
	BARRYS TICKETS	EDR Digital Archive
	DONNER SUSAN MD	EDR Digital Archive
	FIDLER INSURANCE SERVICES	EDR Digital Archive
	YITZ DEKEL & ASSOC INS SVCS	EDR Digital Archive
	RUBIN MARSHALL & ASSOCIATES	EDR Digital Archive
	GLASS STATION	EDR Digital Archive
	MIKE DIAMOND	EDR Digital Archive
	OHEARN J P PLUMBING	EDR Digital Archive
	DIAMOND MIKE PLUMBING HEATING	EDR Digital Archive
	LEWIS RONALD J ATTORNEY AT LAW	EDR Digital Archive
	MILMAN R GEORGE ATTORNEY	EDR Digital Archive
	LANDAU JOYCE	EDR Digital Archive
	KOHANIM ZIPORA	EDR Digital Archive
	CARPET SOLUTIONS	EDR Digital Archive
	SUNSHINE AUTO PARK & BLDG SVCS	EDR Digital Archive
	BOB RAYNOR MAGICIAN	EDR Digital Archive
	PRECISION PAVEMENT STRIPING	EDR Digital Archive
	DAILY METRO DESK	EDR Digital Archive
	BENNETT SCOTT ELECTRIC	EDR Digital Archive
	AUTO MAGIC WAX & POLISH SUPPLI	EDR Digital Archive
	COLE H RN CLNC	EDR Digital Archive
	CASTLE STAR	EDR Digital Archive
	LASER TONER & COMPUTER SUPPLY	EDR Digital Archive
	MOWBRAY TAMARA MS MFT	EDR Digital Archive
	MARONEY MICHAEL J	EDR Digital Archive

22001 Vanowen St

Year	Uses	Source
2014	KENK INC	EDR Digital Archive
	K R SHELL	EDR Digital Archive
2010	K R SHELL	EDR Digital Archive
	KENK INC	EDR Digital Archive

FINDINGS

VANOWEN ST

22001 VANOWEN ST

Year	Uses	Source
2004	KR SHELL	Haines Company
1995	Shell	Pacific Bell
1991	Topanga Plaza Shell	Pacific Bell
1985	Topanga Plaza Shell	Pacific Bell
1980	TOPANGA PLAZA SHELL	Pacific Telephone
1975	Jims Shell Service	Pacific Telephone
1965	NBELL T V	Pacific Telephone

Vanowen St

22012 Vanowen St

Year	Uses	Source
2014	DATA SYSTEMS WORLDWIDE INC	EDR Digital Archive
	A B SALES	EDR Digital Archive
	DON YOUSEM PLUMBING CO	EDR Digital Archive
	COOLMAN	EDR Digital Archive
	POWERLINE BATTERY INC	EDR Digital Archive
	HELP U SELL MID VALLEY	EDR Digital Archive
	BUG MECHANIC	EDR Digital Archive
2010	HELP U SELL MID VALLEY	EDR Digital Archive
	AD PIZZAZ	EDR Digital Archive
	POWERLINE BATTERY INC	EDR Digital Archive
	DATA SYSTEMS WORLDWIDE INC	EDR Digital Archive
	NEWCONCEPT RECORDS LLC	EDR Digital Archive
	BUG MECHANIC	EDR Digital Archive
	PACIFIC RESOURCES	EDR Digital Archive
	CALIFORNIA ASSOC DRAFTG DESIGN	EDR Digital Archive

VANOWEN ST

22012 VANOWEN ST

Year	Uses	Source
2004	KENTAYLOR	Haines Company
	22ND CENTURY	Haines Company
	TRIJ SYSTEMS	Haines Company
	PHOTOGRAPHY	Haines Company

Year	Uses	Source
2004	LEWIS CO DAVID M THE	Haines Company
	MCGUIRERICHARDW 818 B	Haines Company
	MFSINTELENET	Haines Company
	MD FAAFP	Haines Company
	BERNSTEIN LOUIS H	Haines Company
	MEDICAL MANGMNT	Haines Company
	HAYDEN GLENNM	Haines Company
	MEDICALSUPPLY	Haines Company
	ANA QUALITY	Haines Company
	KASSELJONATHAN	Haines Company
1991	Centeo Telemanagement Inc	Pacific Bell

Vanowen St

22015 Vanowen St

Year	Uses	Source
2014	LIQUOR LAND	EDR Digital Archive
2010	LIQUOR LAND	EDR Digital Archive

VANOWEN ST

22015 VANOWEN ST

Year	Uses	Source
2004	ARIA LIQUORS	Haines Company
1991	Vics Liquors	Pacific Bell
1985	Vics Liquors	Pacific Bell
1980	VIC S LIQUORS	Pacific Telephone
1970	VIC S MART	Pacific Telephone
	VIC S MART	Pacific Telephone

Vanowen St

22017 Vanowen St

Year	Uses	Source
2014	DANCE IN MOTION	EDR Digital Archive
2010	N E CLEANERS	EDR Digital Archive

FINDINGS

VANOWEN ST

22017 VANOWEN ST

Year	Uses	Source
2004	N&E CLEANERS	Haines Company
	NICE EASY	Haines Company
	CLEANERS	Haines Company
1995	I White Angels Cleaners	Pacific Bell
	White Angel Astral Travel	Pacific Bell
1991	Oriental Martial Arts Academy	Pacific Bell
1985	Hapkido Karate	Pacific Bell
1980	LEE J B HAPLIDO STUDIOS OF SELF DEFENSE	Pacific Telephone
1975	Lee J Bl Studios Of Self Defense	Pacific Telephone
1970	VALLEY CLEANERS & LAUNDRY	Pacific Telephone
	VALLEY CLEANERS & LAUNDRY	Pacific Telephone

Vanowen St

22018 Vanowen St

Year	Uses	Source
2010	LOPEZ ARTURO S	EDR Digital Archive
	AMERMAN KATHY	EDR Digital Archive
	PENICH F	EDR Digital Archive
	CARLSON C RAY	EDR Digital Archive
	WRIGHT SHARON PHD	EDR Digital Archive

VANOWEN ST

22018 VANOWEN ST

Year	Uses	Source
1976	Canoga Park	Pacific Telephone
	PACIFIC TELEPHONE BUSINESS OFFICES LOS ANGELES	Pacific Telephone
1975	Canoga Park	Pacific Telephone
1970	ADAMS R R DIST MGR PACIFIC TELEPHONE	Pacific Telephone
	PACIFIC TELEPHONE BUSINESS OFFICES	Pacific Telephone
	ADAMS R R DIST MGR PACIFIC TELEPHONE	Pacific Telephone

Year	Uses	Source
1970	PACIFIC TELEPHONE BUSINESS OFFICES	Pacific Telephone
1965	OIPACIFIC TELEPHONE / TELE	Pacific Telephone

Vanowen St

22019 Vanowen St

Year	Uses	Source
2014	WARREN JONES DENTAL LAB	EDR Digital Archive
	BAUMANN INSURANCE AGENCY INC	EDR Digital Archive
	ELDEN INSURANCE SERVICES INC	EDR Digital Archive
	PLASTIC MEN INC	EDR Digital Archive
	INDUSTRIAL SUPPLY LIQUIDATORS	EDR Digital Archive
	ECOLOGY CONSTRUCTION INC	EDR Digital Archive
	CERAMIC PERFORMERS DENTAL LAB	EDR Digital Archive
	INNOVATIVE MERCHANT SOLUTIONS	EDR Digital Archive
	SHOW CASING AMERICA LOS ANGEL	EDR Digital Archive
2010	SHOW CASING AMERICA LOS ANGEL	EDR Digital Archive
	EMS	EDR Digital Archive
	INNOVATIVE MERCHANT SOLUTIONS	EDR Digital Archive
	CERAMIC PERFORMERS DENTAL LAB	EDR Digital Archive
	ECOLOGY CONSTRUCTION INC	EDR Digital Archive
	PLASTIC MEN INC	EDR Digital Archive
	BAUMANN INSURANCE AGENCY INC	EDR Digital Archive
	WARREN JONES DENTAL LAB	EDR Digital Archive

VANOWEN ST

22019 VANOWEN ST

Year	Uses	Source
2004	WESTGATE PARTNERS	Haines Company
	DENTALLABORATORY	Haines Company
	WARRENJONES	Haines Company
	SUMMATECHNOLOGY	Haines Company
	SPERRY VAN NESS	Haines Company
	BAUMANN INSURANCE	Haines Company
	AGENCY	Haines Company
	CP DENTAL LAB	Haines Company
	ECOLOGY	Haines Company
	INDEP OFFICE SUPPLY	Haines Company

FINDINGS

Year	Uses	Source
2004	JONESWARREN	Haines Company
	DENTAL LABORATORY	Haines Company
1995	Baumann Insurance Agency	Pacific Bell
	Better Network Insurance Service	Pacific Bell
	CP Dental Lab	Pacific Bell
	Ecology Construction Inc	Pacific Bell
	Heaven Internat I Studios	Pacific Bell
	Jones Warren Dental Lab	Pacific Bell
	Tamasauskas Management	Pacific Bell
	Tucker Spiller & Associates	Pacific Bell
1991	Baumann Insurance Agency	Pacific Bell
	Baumann J Sun	Pacific Bell
	Baumann J	Pacific Bell
	Baumann M	Pacific Bell
	Baumann M S	Pacific Bell
	Bundalo Petar DMD	Pacific Bell
	Bundalo R	Pacific Bell
	CP Dental Lab	Pacific Bell
	Even Steven Entertainment	Pacific Bell
	Hercules Towing	Pacific Bell
	Jones Warren Dental Lab	Pacific Bell
	Liquid Flow Engineering Inc	Pacific Bell
	Liquid Waste Management No Charge To Calling Party	Pacific Bell
	VILLARRE AL DAVID Dos	Pacific Bell
1985	El Centro De Amistad	Pacific Bell
	MARTIN POTTE R DE N TAL LAB	Pacific Bell
	Martin R	Pacific Bell
	Martin R	Pacific Bell
	Rivera Gabriel A Jr DDS	Pacific Bell
	Rivera Gary	Pacific Bell
	Rivera Gary	Pacific Bell
	S CHACTE R ROBE RT DOS MS IN C	Pacific Bell
	Schad Constance Lynn	Pacific Bell
	Weiner Nathaniel DDS	Pacific Bell
1980	RIVERA GABRIEL A JR DDS	Pacific Telephone
	WISER DAVE DENTAL LAB	Pacific Telephone
	GRAVELINE KENNETH F DDS CANOGA PARK	Pacific Telephone

Year	Uses	Source
1980	SCHACTER ROBT DDS MS A PROFESSIOAOL CORP ORTHODONTIC CANOGA PARK	Pacific Telephone
1976	Schacter Robt DDS A Professional Corp orthodontics	Pacific Telephone
1975	Schacter Robt DDS A Professional Corp orthodontics	Pacific Telephone
	Canoga Park	Pacific Telephone
	Graveline Kenneth F DDS	Pacific Telephone
1970	GRAVELINE KENNETH F DDS	Pacific Telephone
	SCHACTER ROBERT I DR ORTHODONTICS	Pacific Telephone
	GRAVELINE KENNETH F DDS	Pacific Telephone
	SCHACTER ROBERT I DR ORTHODONTICS	Pacific Telephone
1965	GRAVELINE K F-DDS	Pacific Telephone
	GROSSMAN R C OR	Pacific Telephone

Vanowen St

22027 Vanowen St

Year	Uses	Source
2014	GOLDEN OCEAN MASSAGE	EDR Digital Archive
	KIDS PARLOR	EDR Digital Archive
	GRACIE BARRA WOODLAND HILLS	EDR Digital Archive
	MEDICINE DSPNSING SYSTMS IX	EDR Digital Archive
	MY GYM CHILDRENS FITNESS CTR	EDR Digital Archive
	Y & S INC	EDR Digital Archive
2010	Y & S INC	EDR Digital Archive
	MY GYM CHILDRENS FITNESS CTR	EDR Digital Archive
	KIDS PARLOR	EDR Digital Archive
	MAI DAVID	EDR Digital Archive
	FINN FORN	EDR Digital Archive

VANOWEN ST

22027 VANOWEN ST

Year	Uses	Source
2004	THE KIDS PARLOR	Haines Company
	FITNESS CTR	Haines Company
	MYGYMCHILDRENS	Haines Company
	MODERN ULVING	Haines Company

Year	Uses	Source
2004	CLASSE KIDS	Haines Company
1995	California Farm & Market	Pacific Bell
1991	Furniture Gallery	Pacific Bell
1985	Stores	Pacific Bell
	From Los Angeles Telephones Call	Pacific Bell
	Geni Office	Pacific Bell
1980	TOTS N TEENS FURNITURE	Pacific Telephone
1975	Mens Half Price Stores	Pacific Telephone
	Fox Sheldon & Co Inc	Pacific Telephone
1970	BLUE CHIP STAMPS REDEMPTION STORE	Pacific Telephone
	BLUE CHIP STAMPS REDEMPTION STORE	Pacific Telephone

22030 VANOWEN ST

Year	Uses	Source
1975	Frost Richard	Pacific Telephone
1965	CALL HAROLD0 G	Pacific Telephone

22031 VANOWEN ST

Year	Uses	Source
2004	no info	Haines Company

22037 VANOWEN ST

Year	Uses	Source
2004	OLOMELIFelipe	Haines Company
1980	WEAVER DANL	Pacific Telephone
1975	Edwards C	Pacific Telephone
1962	DYATT JAS	Pacific Telephone

22038 VANOWEN ST

Year	Uses	Source
2004	Gonnor Joseph F Jr	Haines Company
	SPAREIGIS Chrislel	Haines Company
	PFEFFER Susan	Haines Company
	PRIBICHEVICH Boris	Haines Company
	PUGLIESE MIguel	Haines Company
	SAYLES Charles	Haines Company
	OSHETHAllan A	Haines Company
	SOUVERBIELLE Magalli	Haines Company
	SULAIMANKHAILFraidun	Haines Company

FINDINGS

Year	Uses	Source
2004	OTATIAN Boghos	Haines Company
	OVAMOS Margarela	Haines Company
	WANG Ting Hwa	Haines Company
	WINGET Dennis	Haines Company
	WU Michael	Haines Company
	ZALDANAJose Luis B	Haines Company
	APARTMENTS	Haines Company
	AKOPYANLevon	Haines Company
	AMRAMJ	Haines Company
	ARNOLD Ryan	Haines Company
	BENLIYANNazaral	Haines Company
	BERGLUNDB	Haines Company
	OBLAKELEYJimm Ie	Haines Company
	CHESTER E	Haines Company
	DARAGAHI Omid	Haines Company
	OPALLAHI Majid	Haines Company
	OFLORESAzucena	Haines Company
	FLORESAzucena	Haines Company
	FLORESAzucena	Haines Company
	OFRIEDMANSaundra	Haines Company
	OGARCIA Henrietta	Haines Company
	OGLAVECarl	Haines Company
	GORRELLSharon	Haines Company
	HECKELSavannah P	Haines Company
	HWELLALAGE Iresha	Haines Company
	KAMINSKIHeinz	Haines Company
	LOLAMaria	Haines Company
	MAKOSOVIgor	Haines Company
	MICZAKSIeve	Haines Company
	MORENOG Cesar	Haines Company
	NUBLAAnlhony	Haines Company
	SOCONNOR Joseph	Haines Company
1995	Berglund B	Pacific Bell
	Cherney Leslie	Pacific Bell
	Cohen Larry	Pacific Bell
	Kaminski Heinz	Pacific Bell
	Ko	Pacific Bell
	I Ko Ine Yoshinorl	Pacific Bell

FINDINGS

Year	Uses	Source
1995	OConnor Joseph F Jr	Pacific Bell
	Reeves L	Pacific Bell
	Vander Kooi Alicia	Pacific Bell
1991	Chemey Leslie	Pacific Bell
	Cherney M	Pacific Bell
	Amerman Carey & Tehseen	Pacific Bell
	Amerman Wes & Julie	Pacific Bell
	Berglund Bl	Pacific Bell
	Berglund David W	Pacific Bell
	Cohen Larry	Pacific Bell
	Griffith Ken	Pacific Bell
	Kahane Nathan	Pacific Bell
	Kojima Yoshinori	Pacific Bell
	Mahdavi Hassan	Pacific Bell
	OConnor Joseph F Jr	Pacific Bell
	OConnor Joseph G North Hollywood	Pacific Bell
	Reeves L	Pacific Bell
	Wong Lisa	Pacific Bell
1985	Angus Lorette	Pacific Bell
	Appel Jeff	Pacific Bell
	Appel Judith C	Pacific Bell
	Bennett T	Pacific Bell
	Berglund Bl	Pacific Bell
	Berglund David W	Pacific Bell
	Berglund E	Pacific Bell
	Fishel Marc H	Pacific Bell
	Fuentes Carlos A	Pacific Bell
	Gerrie D	Pacific Bell
	Gerrie M G	Pacific Bell
	Gerrie P	Pacific Bell
	Gillin Barry J	Pacific Bell
	Gradinger Jeffrey	Pacific Bell
	Holland Terry	Pacific Bell
	Kaye D	Pacific Bell
	Kaye Daniel Bl	Pacific Bell
	Lombardo A J	Pacific Bell
	Mochizuki Kinya	Pacific Bell
	Newman Sam I Chuck	Pacific Bell

FINDINGS

Year	Uses	Source
1985	Novack Arthur J	Pacific Bell
	Rabin David & Sheri	Pacific Bell
	Sayre Robt	Pacific Bell
	Senor Steven	Pacific Bell
	Senosiain J Tuj	Pacific Bell
	Shields Kevin	Pacific Bell
	Shields L M	Pacific Bell
	Wang Lisa	Pacific Bell
1980	TOPANGA TOWNHOUSES	Pacific Telephone
1975	Brown C Glaze	Pacific Telephone

22041 VANOWEN ST

Year	Uses	Source
2004	PEERYMIchele	Haines Company
1985	Hurtado Jenifer	Pacific Bell
	Hurtado Jesus	Pacific Bell
1965	GILES JOHNNY	Pacific Telephone

22046 VANOWEN ST

Year	Uses	Source
1975	West Park Jewish Community Center	Pacific Telephone
1970	WEST PARK JEWISH COMMUNITY CENTER	Pacific Telephone
	WEST PARK JEWISH COMMUNITY CENTER	Pacific Telephone
1965	VANCE C	Pacific Telephone

22047 VANOWEN ST

Year	Uses	Source
2004	PEERYMichele	Haines Company
1970	HEYDA FRANK A	Pacific Telephone
	HEYDA FRANK A	Pacific Telephone

22050 VANOWEN ST

Year	Uses	Source
1975	Res	Pacific Telephone
1970	NOZIK LEON S DR PODIATRIST	Pacific Telephone
	NOZIK LEON S DR PODIATRIST	Pacific Telephone

FINDINGS

22051 VANOWEN ST

Year	Uses	Source
2004	no info	Haines Company
1962	ALLEN JOHN H CANOGA LIGHTING SERV	Pacific Telephone
	CANOGA LIGHTING SERV	Pacific Telephone

22054 VANOWEN ST

Year	Uses	Source
1980	NOZIK LEON S DR PODTRST	Pacific Telephone
1975	Nozik Leon S Dr podtrst	Pacific Telephone
1970	NOZIK LEON S DR PODIATRIST	Pacific Telephone
	NOZIK LEON S DR PODIATRIST	Pacific Telephone
1965	NOZ1K LEON S	Pacific Telephone
1962	NOZIK LEON S DR CHIRPDST	Pacific Telephone

22057 VANOWEN ST

Year	Uses	Source
2004	MCCONNELLRoss	Haines Company
1970	A B C POOL SERVICE & SUPPLY	Pacific Telephone
	A B C POOL SERVICE & SUPPLY	Pacific Telephone
1965	NICHOLS MARY	Pacific Telephone

FINDINGS

ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not identified in research source.

Address Researched	Address Not Identified in Research Source
21900 VANOWEN ST	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22000 Vanowen St	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22001 Vanowen St	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22001 VANOWEN ST	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1990, 1986, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22007 BASSETT ST	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22009 Bassett St	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22011 Bassett St	2014, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22011 BASSETT ST	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1985, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22012 VANOWEN ST	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
22012 Vanowen St	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22015 BASSETT ST	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22015 VANOWEN ST	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22015 Vanowen St	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22016 Schoolcraft St	2014, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22016 SCHOOLCRAFT ST	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22017 SCHOOLCRAFT ST	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22017 VANOWEN ST	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1990, 1986, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22017 Vanowen St	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22018 VANOWEN ST	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22018 Vanowen St	2014, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
22019 VANOWEN	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22019 VANOWEN ST	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1990, 1986, 1981, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22019 Vanowen St	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22020 SCHOOLCRAFT ST	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22021 SCHOOLCRAFT ST	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22026 SCHOOLCRAFT ST	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22027 BASSETT ST	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1985, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22027 SCHOOLCRAFT ST	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22027 VANOWEN	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22027 VANOWEN ST	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1990, 1986, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22027 Vanowen St	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
22029 SCHOOLCRAFT ST	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22030 BASSETT ST	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22030 SCHOOLCRAFT ST	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22030 Schoolcraft St	2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22030 VANOWEN ST	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22031 BASSETT ST	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22031 SCHOOLCRAFT ST	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22031 VANOWEN ST	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22033 BASSETT ST	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22036 SCHOOLCRAFT ST	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22037 BASSETT ST	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
22037 SCHOOLCRAFT ST	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22037 Schoolcraft St	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22037 VANOWEN ST	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22038 BASSETT ST	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22038 Bassett St	2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22038 VANOWEN ST	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1990, 1986, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22040 SCHOOLCRAFT ST	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22041 BASSETT ST	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22041 Bassett St	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22041 SCHOOLCRAFT ST	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22041 VANOWEN ST	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
22044 BASSETT ST	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22045 SCHOOLCRAFT ST	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22046 SCHOOLCRAFT ST	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22046 VANOWEN ST	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22047 BASSETT ST	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22047 Bassett St	2014, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22047 VANOWEN ST	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22050 BASSETT ST	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22050 SCHOOLCRAFT ST	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22050 VANOWEN ST	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22051 BASSETT ST	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1990, 1986, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
22051 SCHOOLCRAFT ST	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22051 VANOWEN ST	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22054 VANOWEN ST	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22056 SCHOOLCRAFT ST	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22057 BASSETT ST	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22057 SCHOOLCRAFT ST	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
22057 VANOWEN ST	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6801 TOPANGA CANYON BLVD	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6813 1/2 TOPANGA CANYON BLVD	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6813 TOPANGA CANYON BLVD	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6819 TOPANGA CANYON BLVD	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1990, 1986, 1985, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
6821 HANNA AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6823 TOPANGA CANYON BLVD	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6825 HANNA AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6829 HANNA AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6829 TOPANGA CANYON BLVD	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6829 Topanga Canyon Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6833 Hanna Ave	2014, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6833 HANNA AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6837 HANNA AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6837 Hanna Ave	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6841 HANNA AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
6841 TOPANGA CANYON BLVD	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6841 Topanga Canyon Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6847 HANNA AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6849 TOPANGA CANYON BLVD	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6849 Topanga Canyon Blvd	2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6851 TOPANGA CANYON BLVD	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6851 Topanga Canyon Blvd	2014, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6855 TOPANGA CANYON BLVD	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6855 Topanga Canyon Blvd	2014, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6859 Topanga Canyon Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6859 TOPANGA CANYON BLVD	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
6892 TOPANGA CANYON BLVD	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6901 TOPANGA CANYON BLVD	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1990, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6901 Topanga Canyon Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6903 Topanga Canyon Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6903 TOPANGA CANYON BLVD	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1990, 1986, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6907 TOPANGA CANYON BLVD	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6911 TOPANGA CANYON BLVD	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1990, 1986, 1972, 1971, 1969, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6911 Topanga Canyon Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6913 TOPANGA CANYON BLVD	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6921 TOPANGA CANYON BLVD	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6921 Topanga Canyon Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
6931 Topanga Canyon Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6931 TOPANGA CANYON BLVD	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1992, 1990, 1986, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6933 TOPANGA CANYON BLVD	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6935 TOPANGA CANYON BLVD	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6937 TOPANGA CANYON BLVD	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6939 TOPANGA CANYON BLVD	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6941 TOPANGA CANYON BLVD	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6941 Topanga Canyon Blvd	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6943 TOPANGA CANYON BLVD	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6945 TOPANGA CANYON BLVD	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6947 TOPANGA CANYON BLVD	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
6949 TOPANGA CANYON BLVD	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1985, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

Address Researched	Address Not Identified in Research Source
6850 Topanga Canyon Blvd	2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

CANOGA PARK HIGH SCHOOL
6850 Topanga Canyon Blvd
Canoga Park, CA 91303

Inquiry Number: 5499207.2s
November 30, 2018

The EDR Radius Map™ Report with GeoCheck®

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Shelton, CT 06484
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TABLE OF CONTENTS

SECTION	PAGE
Executive Summary	ES1
Overview Map	2
Detail Map	3
Map Findings Summary	4
Map Findings	9
Orphan Summary	270
Government Records Searched/Data Currency Tracking	GR-1

GEOCHECK ADDENDUM

Physical Setting Source Addendum	A-1
Physical Setting Source Summary	A-2
Physical Setting SSURGO Soil Map	A-6
Physical Setting Source Map	A-9
Physical Setting Source Map Findings	A-11
Physical Setting Source Records Searched	PSGR-1

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

6850 TOPANGA CANYON BLVD
CANOGA PARK, CA 91303

COORDINATES

Latitude (North):	34.1955760 - 34° 11' 44.07''
Longitude (West):	118.6043310 - 118° 36' 15.59''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	352173.4
UTM Y (Meters):	3784809.8
Elevation:	796 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5630737 CANOGA PARK, CA
Version Date:	2012
West Map:	5630735 CALABASAS, CA
Version Date:	2012

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140531
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
6850 TOPANGA CANYON BLVD
CANOGA PARK, CA 91303

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	LA UNI SCH DIST, CAN	6850 TOPANGA CANYON	CA EMI		TP
A2	LAUSD/CANOGA PARK HI	6850 TOPANGA CYN BLV	CA HAZNET		TP
A3	LAUSD - CANOGA PARK	6850 N TOPANGA CANYO	FINDS		TP
4	OWENSMOUTH CONTINUAT	6921 JORDON AVE	RCRA-LQG	Lower	11, 0.002, ENE
B5	VERNS AUTOMOTIVE & T	6813 1/2 TOPANGA CAN	EDR Hist Auto	Higher	90, 0.017, SW
B6	TOPANGA CAR WASH	6829 TOPANGA CNYN	CA HIST CORTESE	Higher	137, 0.026, SW
B7	TOPANGA CAR WASH	6829 TOPANGA CANYON	EDR Hist Auto	Higher	137, 0.026, SW
B8	TOPANGA CAR WASH	6829 TOPANGA CANYON	CA UST	Higher	137, 0.026, SW
B9	TOPANGA CAR WASH	6829 TOPANGA CANYON	CA LUST	Higher	137, 0.026, SW
B10	TOPANGA CAR WASH HOW	6829 TOPANGA CANYON	CA SWEEPS UST, CA FID UST	Higher	137, 0.026, SW
C11	THRIFTY #141 (FORMER	6851 TOPANGA CNYN	CA HIST CORTESE	Higher	139, 0.026, WSW
C12	THRIFTY OIL STATION	6851 TOPANGA CANYON	CA SWEEPS UST, CA FID UST, CA HAZNET	Higher	139, 0.026, WSW
C13	THRIFTY #141 (FORMER	6851 TOPANGA CANYON	CA LUST, CA HIST UST	Higher	139, 0.026, WSW
C14	THRIFTY #141 (FORMER	6851 TOPANGA CANYON	CA LUST	Higher	139, 0.026, WSW
C15	THRIFTY OIL CO INC	6851 TOPANGA CANYON	EDR Hist Auto	Higher	139, 0.026, WSW
B16	SHELL OIL PRODUCTS U	22001 VANOWEN ST	CA SWEEPS UST, CA FID UST, CA EMI	Higher	166, 0.031, SW
B17	SHELL SERVICE STATIO	22001 VAN OWEN	EDR Hist Auto	Higher	166, 0.031, SW
B18	SHELL #204-1242-0604	22001 VANOWEN	CA LUST, CA HIST CORTESE	Higher	166, 0.031, SW
B19	SHELL #204-1242-0604	22001 VANOWEN ST	CA LUST	Higher	166, 0.031, SW
B20	JACK S KHANGURA	22001 VAN OWEN	CA HIST UST, CA HAZNET	Higher	166, 0.031, SW
B21	TOPANGA/VANOWEN SHEL	22001 VANOWEN ST	CA UST	Higher	166, 0.031, SW
B22	JACK S. KHANGURA	22001 VANOWEN ST	CA HIST UST	Higher	166, 0.031, SW
B23	SHELL SERVICE STATIO	22001 VANOWEN ST	RCRA-SQG, FINDS, ECHO, CA HAZNET	Higher	166, 0.031, SW
D24	RED CARPET CAR WASH	6760 TOPANGA CANYON	CA UST	Higher	220, 0.042, SSW
D25	RED CARPET CAR WASH	6760 N TOPANGA CANYO	CA UST	Higher	220, 0.042, SSW
D26	UNION OIL SERVICE ST	6760 TOPANGA CANYON	CA HIST UST	Higher	220, 0.042, SSW
D27	LEONARD J/NATHAN ELB	6760 TOPANGA CANYON	CA SWEEPS UST, CA FID UST	Higher	220, 0.042, SSW
D28	RED CARPET CAR WASH	6760 TOPANGA CYN BLV	EDR Hist Auto	Higher	220, 0.042, SSW
D29	SERVICE STATION 4844	6760 TOPANGA CANYON	CA LUST, CA HIST UST	Higher	220, 0.042, SSW
D30	UNOCAL #4844	6760 TOPANGA CANYON	CA LUST, CA HIST CORTESE	Higher	220, 0.042, SSW
B31	PACIFIC BELL (B1-100	22012 VANOWEN ST	CA LUST, CA HIST CORTESE	Higher	235, 0.045, SW
E32	PEP BOYS-CANOGA PARK	7020 TOPANGA CANYON	CA HIST UST	Higher	248, 0.047, NNW
E33	PEP BOYS - CANOGA PA	7020 TOPANGA CANYON	CA SWEEPS UST, CA FID UST	Higher	248, 0.047, NNW
E34	PEP BOYS	7020 TOPANGA CANYON	RCRA NonGen / NLR, FINDS, ECHO	Higher	248, 0.047, NNW
B35	CALIFORNIA CLEANERS	22017 VANOWEN	CA DRYCLEANERS	Higher	274, 0.052, SW
B36	N & E CLEANERS, NAHL	22017 VANOWEN ST	CA DRYCLEANERS	Higher	274, 0.052, SW
B37	WHITE ANGEL'S CLEANE	22017 VANOWEN ST	CA DRYCLEANERS	Higher	274, 0.052, SW
B38	WHITE ANGELS CLEANER	22017 VANOWEN ST	CA DRYCLEANERS	Higher	274, 0.052, SW
B39	N E CLEANERS	22017 VANOWEN ST	EDR Hist Cleaner	Higher	274, 0.052, SW

MAPPED SITES SUMMARY

Target Property Address:
6850 TOPANGA CANYON BLVD
CANOGA PARK, CA 91303

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
B40	WHITE ANGEL CLEANERS	22017 VANOWEN ST	RCRA-SQG, CA CPS-SLIC, FINDS, ECHO, CA...	Higher	274, 0.052, SW
B41	PACIFIC BELL	22012/18 VANOWEN ST	RCRA-SQG, CA LUST, CA UST, CA SWEEPS UST, CA HIST...	Higher	306, 0.058, SW
E42	BOB SMITH BMW	7050 TOPANGA CANYON	RCRA-SQG, CA LUST, CA SWEEPS UST, CA HIST UST, CA...	Higher	452, 0.086, NNW
E43	BOB SMITH BMW	7050 TOPANGA CNYN	CA HIST CORTESE	Higher	452, 0.086, NNW
E44	BOB SMITH BMW	7050 TOPANGA CYN BLV	CA HIST UST	Higher	452, 0.086, NNW
E45	DEPENDABLE AUTO REPA	7039 TOPANGA CYN BLV	RCRA NonGen / NLR, FINDS, ECHO	Higher	454, 0.086, NNW
E46	WARNER AUTO CENTER	7039 TOPANGA CANYON	CA AST	Higher	454, 0.086, NNW
E47	RADEMACHER ROBERT W	7056 TOPANGA CANYON	EDR Hist Auto	Higher	486, 0.092, NNW
48	PALMA FELIPE J	21631 VANOWEN	EDR Hist Auto	Lower	531, 0.101, SE
F49	PACIFIC BELL	6685 TOPANGA CYN BLV	RCRA-SQG, CA LUST, CA FID UST, FINDS, ECHO, CA...	Higher	534, 0.101, SSW
50	S&K ARCO INC	7018 OWENSMOUTH AVE	EDR Hist Auto	Lower	543, 0.103, NE
51	WADE ROUSS	7100 TOPANGA CANYON	CA HIST UST, CA HAZNET	Higher	693, 0.131, NNW
F52	TARGET STORE T2143	6700 TOPANGA CANYON	RCRA-LQG	Higher	693, 0.131, SSW
F53	CVS PHARMACY #17226	6700 TOPANGA CANYON	RCRA-CESQG, FINDS, ECHO	Higher	693, 0.131, SSW
F54	TARGET #2143	6700 TOPANGA CANYON	RCRA-LQG	Higher	693, 0.131, SSW
F55	PACIFIC BELL	6685 TOPANGA CANYON	CA SWEEPS UST	Higher	714, 0.135, SSW
F56	PACIFIC BELL	6685 TOPANGA CANYON	CA UST, CA SWEEPS UST	Higher	800, 0.152, SSW
F57	PACIFIC BELL (B1-320	6685 TOPANGA CNYN	CA HIST CORTESE	Higher	800, 0.152, SSW
G58	GERARD DESIGN	7103 OWENSMOUTH AVE	RCRA-SQG, FINDS, ECHO, CA HAZNET	Higher	805, 0.152, NNE
G59	LLOYDS PLACE AUTO RE	7103 OWENSMOUTH	RCRA-SQG, FINDS, ECHO	Higher	805, 0.152, NNE
60	PRATT &WHITNEY - CAN	21600 VANOWEN STREET	CA CPS-SLIC	Lower	873, 0.165, SE
H61	CHET AUTOMOTIVE INC	21523 GAULT ST	RCRA-SQG, FINDS, ECHO	Lower	1174, 0.222, NE
H62	PROFESSIONAL 1 AUTO	21521 GAULT ST	RCRA-SQG, FINDS, ECHO	Lower	1175, 0.223, NE
I63	TOP OF THE LINE CLEA	7138 OWENSMOUTH AVE	CA DRYCLEANERS	Higher	1176, 0.223, NNE
I64	TOP OF THE LINE CLEA	7138 OWENSMOUTH AVE	CA DRYCLEANERS	Higher	1176, 0.223, NNE
I65	TOP OF THE LINE CLEA	7138 OWENSMOUTH AVE	CA DRYCLEANERS	Higher	1176, 0.223, NNE
I66	TOP OF THE LINE CLEA	7138 OWENSMOUTH AVE	RCRA NonGen / NLR, FINDS, ECHO, CA EMI	Higher	1176, 0.223, NNE
I67	COSMOS CLEANERS	7138 OWENSMOUTH AVE	CA DRYCLEANERS	Higher	1176, 0.223, NNE
I68	TOP OF THE LINE CLEA	7138 OWENSMOUTH AVE	CA DRYCLEANERS	Higher	1176, 0.223, NNE
69	REINHOLD GAMPER	7140 REMMET AVE	CA LUST, CA UST, CA SWEEPS UST	Higher	1446, 0.274, NE
70	95249-CHEVRON STATIO	21937 SHERMAN WAY	CA LUST, CA SWEEPS UST, CA FID UST	Higher	1464, 0.277, North
J71	RAYNE SOFTWATER OF T	6953 CANOGA AVE	CA LUST, CA ENF, CA HIST CORTESE	Lower	1471, 0.279, ENE
J72	RAYNE SOFTWATER OF T	6953 CANOGA AVE	CA LUST	Lower	1471, 0.279, ENE
73	COMMERCIAL PROPERTY	21401 VANOWEN ST	CA LUST	Lower	1532, 0.290, ESE
74	CANOGA AVENUE FAC		CA ENVIROSTOR	Higher	1588, 0.301, SE
75	MONTGOMERY WARDS AUT	6601 OWENSMOUTH AVE	CA LUST, CA CPS-SLIC, CA HIST CORTESE, LA Co. Site...	Higher	1663, 0.315, SSE
K76	CALMAT FACILITY FORM	7001 DEERING AVE	CA LUST	Lower	1887, 0.357, ENE
K77	FORMER CALMAT FACILI	7001 DEERING	CA LUST, CA ENF, CA HIST CORTESE, CA NPDES, CA...	Lower	1887, 0.357, ENE
L78	J W CHARLES JACOBI	21341 VANOWEN ST	CA LUST, CA SWEEPS UST	Lower	1890, 0.358, ESE

MAPPED SITES SUMMARY

Target Property Address:
6850 TOPANGA CANYON BLVD
CANOGA PARK, CA 91303

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
L79	JACOBI BUILDING MATE	21341 VANOWEN	CA LUST, CA HIST CORTESE	Lower	1890, 0.358, ESE
M80	THE BOEING COMPANY -	6620 CANOGA AVE	CA CPS-SLIC, CA EMI	Lower	1918, 0.363, SE
N81	WORTHMAN OIL S.S. (F	21404 SHERMAN WY	CA LUST	Higher	1941, 0.368, NE
N82	WORTHMAN OIL S.S. (F	21404 SHERMAN WAY	CA LUST, CA ENF, CA HIST CORTESE	Higher	1941, 0.368, NE
M83	MAGNOLIA SHOPPING CE	66206633 CANOGA AVE	CA HIST CORTESE	Higher	1953, 0.370, SE
M84	AEROJET ROCKETDYNE O	6633 CANOGA AVE	CA ENVIROSTOR, CA CPS-SLIC, CA HIST UST, CA HIST...	Higher	1964, 0.372, SE
M85	SANTA SUSANA FACILIT	6633 CANOGA AVE	CA WMUDS/SWAT, CA CHMIRS	Higher	1964, 0.372, SE
M86	AEROJECT ROCKETDYNE	6633 CANOGA AVE	CA CPS-SLIC, CA HIST UST, CA HAZNET	Higher	1964, 0.372, SE
M87	PRATT & WHITNEY ROCK	6633 CANOGA AVE	CA LUST, CA EMI	Higher	1964, 0.372, SE
M88	BOEING NORTH AMERICA	6633 CANOGA AVENUE	SEMS-ARCHIVE, CORRACTS, RCRA-TSDF, RCRA-SQG, US...	Higher	1964, 0.372, SE
N89	CHEVRON #20-2018	21403 SHERMAN WAY	CA LUST, CA FID UST	Higher	2009, 0.380, NE
N90	EXXON #7-3830	21401 SHERMAN WY	CA LUST, CA HIST CORTESE	Higher	2024, 0.383, NE
N91	EXXON	7215 CANOGA	CA LUST, CA HIST CORTESE	Higher	2089, 0.396, NE
92	EXCLUSIVE AUTO	22217 SHERMAN WAY	CA ENVIROSTOR, LA Co. Site Mitigation	Higher	2132, 0.404, NW
N93	HULL BROTHERS LUMBER	21350 SHERMAN WY	CA LUST, CA HIST CORTESE	Higher	2184, 0.414, NE
O94	INT'L MOTOR CYCLES I	7233 CANOGA AVE	CA LUST, CA HIST CORTESE	Higher	2254, 0.427, NE
95	ROCKWELL - BEST BUY	21601 VICTORY	CA CPS-SLIC	Higher	2311, 0.438, SSE
P96	BERGE MATOSSIAN #14-	6423 TOPANGA CANYON	CA LUST, CA CPS-SLIC, CA HIST UST, CA CHMIRS	Higher	2405, 0.455, South
P97	MOBIL #18-JT6	6423 TOPANGA CANYON	CA LUST	Higher	2405, 0.455, South
Q98	JC PENNY CO.	21500 VICTORY	CA CPS-SLIC	Higher	2436, 0.461, SSE
Q99	JC PENNY CO	21500 VICTORY BLVD	CA LUST, CA CPS-SLIC, CA HIST CORTESE	Higher	2436, 0.461, SSE
O100	SOUTHERN PACIFIC FAC	7258 CANOGA AVE	CA LUST, CA HIST CORTESE	Higher	2479, 0.470, NE
101	LAMCO DEVELOPERS	21300 VICTORY BLVD.	CA Notify 65	Higher	3068, 0.581, SE
102	TRILLIUM CLEANERS(FO	6326 CANOGA AVE.	CA ENVIROSTOR, CA CPS-SLIC, LA Co. Site Mitigation	Higher	3400, 0.644, SSE
103	CANOGA PARK PRIMARY	7505 CANOGA AVENUE	CA ENVIROSTOR, CA LUST, CA SCH	Higher	3677, 0.696, NNE
104	MTA ORANGE LINE	RIGHT OF WAY FROM LA	CA ENVIROSTOR, CA VCP	Lower	3873, 0.734, ESE
105	THE PLAZA AT WARNER	6200-6250 CANOGA AVE	CA ENVIROSTOR	Higher	4199, 0.795, SSE
106	EL PROYECTO DEL BARR	20800 SHERMAN WAY	CA ENVIROSTOR	Lower	5112, 0.968, ENE

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 9 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
LA UNI SCH DIST, CAN 6850 TOPANGA CANYON CANOGA PARK, CA 91303	CA EMI Facility Id: 72693	N/A
LAUSD/CANOGA PARK HI 6850 TOPANGA CYN BLV CANOGA PARK, CA 91303	CA HAZNET GEPAID: CAD982039265	N/A
LAUSD - CANOGA PARK 6850 N TOPANGA CANYO CANOGA PARK, CA 91303	FINDS Registry ID:: 110066016787	N/A

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL ---------- National Priority List
Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL ---------- National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY ---------- Federal Facility Site Information listing
SEMS ---------- Superfund Enterprise Management System

Federal institutional controls / engineering controls registries

LUCIS ---------- Land Use Control Information System
US ENG CONTROLS ---------- Engineering Controls Sites List

US INST CONTROL ---------- Sites with Institutional Controls

Federal ERNS list

ERNS ---------- Emergency Response Notification System

State- and tribal - equivalent NPL

CA RESPONSE ---------- State Response Sites

State and tribal landfill and/or solid waste disposal site lists

CA SWF/LF ---------- Solid Waste Information System

State and tribal leaking storage tank lists

INDIAN LUST ---------- Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

FEMA UST ---------- Underground Storage Tank Listing
INDIAN UST ---------- Underground Storage Tanks on Indian Land

State and tribal voluntary cleanup sites

INDIAN VCP ---------- Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

CA BROWNFIELDS ---------- Considered Brownfieds Sites Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS ---------- A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

CA SWRCY ---------- Recycler Database
CA HAULERS ---------- Registered Waste Tire Haulers Listing
INDIAN ODI ---------- Report on the Status of Open Dumps on Indian Lands
ODI ---------- Open Dump Inventory
DEBRIS REGION 9 ---------- Torres Martinez Reservation Illegal Dump Site Locations
IHS OPEN DUMPS ---------- Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

CA AOCONCERN ---------- San Gabriel Valley Areas of Concern
US HIST CDL ---------- Delisted National Clandestine Laboratory Register
CA HIST Cal-Sites ---------- Historical Calsites Database
CA CDL ---------- Clandestine Drug Labs
CA Toxic Pits ---------- Toxic Pits Cleanup Act Sites
US CDL ---------- National Clandestine Laboratory Register

EXECUTIVE SUMMARY

CA CERS HAZ WASTE---- CERS HAZ WASTE

Local Lists of Registered Storage Tanks

CA CERS TANKS---- California Environmental Reporting System (CERS) Tanks

Local Land Records

CA LIENS---- Environmental Liens Listing
LIENS 2---- CERCLA Lien Information
CA DEED---- Deed Restriction Listing

Records of Emergency Release Reports

HMIRS---- Hazardous Materials Information Reporting System
CA LDS---- Land Disposal Sites Listing
CA MCS---- Military Cleanup Sites Listing
CA SPILLS 90---- SPILLS 90 data from FirstSearch

Other Ascertainable Records

FUDS---- Formerly Used Defense Sites
DOD---- Department of Defense Sites
SCRD DRYCLEANERS---- State Coalition for Remediation of Drycleaners Listing
EPA WATCH LIST---- EPA WATCH LIST
TSCA---- Toxic Substances Control Act
TRIS---- Toxic Chemical Release Inventory System
SSTS---- Section 7 Tracking Systems
ROD---- Records Of Decision
RMP---- Risk Management Plans
RAATS---- RCRA Administrative Action Tracking System
PRP---- Potentially Responsible Parties
PADS---- PCB Activity Database System
ICIS---- Integrated Compliance Information System
FTTS---- FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS---- Material Licensing Tracking System
COAL ASH DOE---- Steam-Electric Plant Operation Data
COAL ASH EPA---- Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER---- PCB Transformer Registration Database
RADINFO---- Radiation Information Database
HIST FTTS---- FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS---- Incident and Accident Data
CONSENT---- Superfund (CERCLA) Consent Decrees
INDIAN RESERV---- Indian Reservations
FUSRAP---- Formerly Utilized Sites Remedial Action Program
UMTRA---- Uranium Mill Tailings Sites
LEAD SMELTERS---- Lead Smelter Sites
US AIRS---- Aerometric Information Retrieval System Facility Subsystem
US MINES---- Mines Master Index File
ABANDONED MINES---- Abandoned Mines
DOCKET HWC---- Hazardous Waste Compliance Docket Listing
UXO---- Unexploded Ordnance Sites
FUELS PROGRAM---- EPA Fuels Program Registered Listing
CA BOND EXP. PLAN---- Bond Expenditure Plan

CA Cortese "Cortese" Hazardous Waste & Substances Sites List
CA CUPA Listings CUPA Resources List
CA Financial Assurance Financial Assurance Information Listing
CA ICE ICE
CA LOS ANGELES CO. HMS HMS: Street Number List
CA HWT Registered Hazardous Waste Transporter Database
CA MINES Mines Site Location Listing
CA MWMP Medical Waste Management Program Listing
CA PEST LIC Pesticide Regulation Licenses Listing
CA PROC Certified Processors Database
CA UIC UIC Listing
CA WASTEWATER PITS Oil Wastewater Pits Listing
CA WDS Waste Discharge System
CA WIP Well Investigation Program Case List
CA SAMPLING POINT SAMPLING POINT (GEOTRACKER)
CA OTHER OIL GAS OTHER OIL & GAS (GEOTRACKER)
CA WELL STIM PROJ Well Stimulation Project (GEOTRACKER)
CA CERS CERS
CA UIC GEO UIC GEO (GEOTRACKER)
CA PROD WATER PONDS PROD WATER PONDS (GEOTRACKER)
CA NON-CASE INFO NON-CASE INFO (GEOTRACKER)
CA MILITARY PRIV SITES MILITARY PRIV SITES (GEOTRACKER)
CA PROJECT PROJECT (GEOTRACKER)

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP EDR Proprietary Manufactured Gas Plants

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

CA RGA LF Recovered Government Archive Solid Waste Facilities List
CA RGA LUST Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

EXECUTIVE SUMMARY

STANDARD ENVIRONMENTAL RECORDS

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

A review of the SEMS-ARCHIVE list, as provided by EDR, and dated 08/13/2018 has revealed that there is 1 SEMS-ARCHIVE site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BOEING NORTH AMERICA	***6633 CANOGA AVENUE***	***SE 1/4 - 1/2 (0.372 mi.)***	***M88***	***192***
Site ID: 0901574				
EPA Id: CAD074103771				

Federal RCRA CORRACTS facilities list

CORRACTS: CORRACTS is a list of handlers with RCRA Corrective Action Activity. This report shows which nationally-defined corrective action core events have occurred for every handler that has had corrective action activity.

A review of the CORRACTS list, as provided by EDR, and dated 03/01/2018 has revealed that there is 1 CORRACTS site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BOEING NORTH AMERICA	***6633 CANOGA AVENUE***	***SE 1/4 - 1/2 (0.372 mi.)***	***M88***	***192***
EPA ID:: CAD074103771				

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

A review of the RCRA-TSDF list, as provided by EDR, and dated 03/01/2018 has revealed that there is 1

RCRA-TSDF site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BOEING NORTH AMERICA EPA ID:: CAD074103771	***6633 CANOGA AVENUE***	***SE 1/4 - 1/2 (0.372 mi.)***	***M88***	***192***

Federal RCRA generators list

RCRA-LQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

A review of the RCRA-LQG list, as provided by EDR, and dated 03/01/2018 has revealed that there are 3 RCRA-LQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
TARGET STORE T2143 EPA ID:: CAR000218065	6700 TOPANGA CANYON	SSW 1/8 - 1/4 (0.131 mi.)	F52	99
TARGET #2143 EPA ID:: CAL000312171	6700 TOPANGA CANYON	SSW 1/8 - 1/4 (0.131 mi.)	F54	109

Lower Elevation	Address	Direction / Distance	Map ID	Page
OWENSMOUTH CONTINUAT EPA ID:: CAR000195883	6921 JORDON AVE	ENE 0 - 1/8 (0.002 mi.)	4	11

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 03/01/2018 has revealed that there are 9 RCRA-SQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SHELL SERVICE STATIO EPA ID:: CAR000124727	***22001 VANOWEN ST***	***SW 0 - 1/8 (0.031 mi.)***	***B23***	***50***
WHITE ANGEL CLEANERS EPA ID:: CAD983651472	***22017 VANOWEN ST***	***SW 0 - 1/8 (0.052 mi.)***	***B40***	***71***
PACIFIC BELL EPA ID:: CAT080023112	***22012/18 VANOWEN ST***	***SW 0 - 1/8 (0.058 mi.)***	***B41***	***76***
BOB SMITH BMW EPA ID:: CAD981676844	***7050 TOPANGA CANYON***	***NNW 0 - 1/8 (0.086 mi.)***	***E42***	***80***
PACIFIC BELL	***6685 TOPANGA CYN BLV***	***SSW 0 - 1/8 (0.101 mi.)***	***F49***	***91***

EPA ID:: CAD980881494

GERARD DESIGN	***7103 OWENSMOUTH AVE***	***NNE 1/8 - 1/4 (0.152 mi.)***	***G58***	***112***
EPA ID:: CAD982510950				
LLOYDS PLACE AUTO RE	***7103 OWENSMOUTH***	***NNE 1/8 - 1/4 (0.152 mi.)***	***G59***	***116***
EPA ID:: CAD982465205				

Lower Elevation	Address	Direction / Distance	Map ID	Page
CHET AUTOMOTIVE INC	***21523 GAULT ST***	***NE 1/8 - 1/4 (0.222 mi.)***	***H61***	***118***
EPA ID:: CAD982407249				
PROFESSIONAL 1 AUTO	***21521 GAULT ST***	***NE 1/8 - 1/4 (0.223 mi.)***	***H62***	***120***
EPA ID:: CAD983635376				

RCRA-CESQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

A review of the RCRA-CESQG list, as provided by EDR, and dated 03/01/2018 has revealed that there is 1 RCRA-CESQG site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CVS PHARMACY #17226	***6700 TOPANGA CANYON***	***SSW 1/8 - 1/4 (0.131 mi.)***	***F53***	***105***
EPA ID:: CAR000258871				

State- and tribal - equivalent CERCLIS

CA ENVIROSTOR: The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

A review of the CA ENVIROSTOR list, as provided by EDR, and dated 07/30/2018 has revealed that there are 8 CA ENVIROSTOR sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CANOGA AVENUE FAC		SE 1/4 - 1/2 (0.301 mi.)	74	141
Facility Id: 80000069				
Status: Inactive - Needs Evaluation				
AEROJET ROCKETDYNE O	***6633 CANOGA AVE***	***SE 1/4 - 1/2 (0.372 mi.)***	***M84***	***174***

Facility Id: 19370329
Facility Id: 71002566
Facility Id: 80001667
Status: Refer: RCRA
Status: Refer: Other Agency
Status: Refer: RWQCB

EXCLUSIVE AUTO	***22217 SHERMAN WAY***	***NW 1/4 - 1/2 (0.404 mi.)***	***92***	***237***
Facility Id: 19750103 Status: Refer: 1248 Local Agency				
TRILLIUM CLEANERS(FO	***6326 CANOGA AVE.***	***SSE 1/2 - 1 (0.644 mi.)***	***102***	***257***
Facility Id: 19720054 Status: Refer: 1248 Local Agency				
CANOGA PARK PRIMARY	***7505 CANOGA AVENUE***	***NNE 1/2 - 1 (0.696 mi.)***	***103***	***259***
Facility Id: 19750092 Status: No Further Action				
THE PLAZA AT WARNER	6200-6250 CANOGA AVE	SSE 1/2 - 1 (0.795 mi.)	105	267
Facility Id: 19000030 Status: Refer: 1248 Local Agency				

Lower Elevation	Address	Direction / Distance	Map ID	Page
MTA ORANGE LINE	***RIGHT OF WAY FROM LA***	***ESE 1/2 - 1 (0.734 mi.)***	***104***	***264***
Facility Id: 60000187 Status: No Further Action				
EL PROYECTO DEL BARR	20800 SHERMAN WAY	ENE 1/2 - 1 (0.968 mi.)	106	268
Facility Id: 19800030 Status: No Action Required				

State and tribal leaking storage tank lists

CA LUST: Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the CA LUST list, as provided by EDR, has revealed that there are 33 CA LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
TOPANGA CAR WASH	6829 TOPANGA CANYON	SW 0 - 1/8 (0.026 mi.)	B9	14
Database: LUST, Date of Government Version: 09/10/2018 Database: LUST REG 4, Date of Government Version: 09/07/2004 Status: Completed - Case Closed Facility Id: 913030116 Status: Post remedial action monitoring Global Id: T0603702072 Global ID: T0603702072				
THRIFTY #141 (FORMER	***6851 TOPANGA CANYON***	***WSW 0 - 1/8 (0.026 mi.)***	***C13***	***28***
Database: LUST, Date of Government Version: 09/10/2018 Status: Completed - Case Closed Global Id: T0603702074				
THRIFTY #141 (FORMER	6851 TOPANGA CANYON	WSW 0 - 1/8 (0.026 mi.)	C14	34
Database: LUST REG 4, Date of Government Version: 09/07/2004				

Facility Id: 913030616
Status: Preliminary site assessment underway
Global ID: T0603702074

SHELL #204-1242-0604 ***22001 VANOWEN*** ***SW 0 - 1/8 (0.031 mi.)*** ***B18*** ***38***
Database: LUST, Date of Government Version: 09/10/2018
Status: Completed - Case Closed
Global Id: T0603702075

SHELL #204-1242-0604 22001 VANOWEN ST SW 0 - 1/8 (0.031 mi.) B19 47
Database: LUST REG 4, Date of Government Version: 09/07/2004
Facility Id: 913030689
Status: Preliminary site assessment underway
Global ID: T0603702075

SERVICE STATION 4844 ***6760 TOPANGA CANYON*** ***SSW 0 - 1/8 (0.042 mi.)*** ***D29*** ***57***
Database: LUST, Date of Government Version: 09/10/2018
Status: Completed - Case Closed
Global Id: T0603702073

UNOCAL #4844 ***6760 TOPANGA CANYON*** ***SSW 0 - 1/8 (0.042 mi.)*** ***D30*** ***63***
Database: LUST REG 4, Date of Government Version: 09/07/2004
Facility Id: 913030507A
Status: Suspension of Work Letter from Cleanup Fund
Global ID: T0603702073

PACIFIC BELL (B1-100 ***22012 VANOWEN ST*** ***SW 0 - 1/8 (0.045 mi.)*** ***B31*** ***65***
Database: LUST, Date of Government Version: 09/10/2018
Status: Completed - Case Closed
Global Id: T0603702083

PACIFIC BELL ***22012/18 VANOWEN ST*** ***SW 0 - 1/8 (0.058 mi.)*** ***B41*** ***76***
Database: LUST REG 4, Date of Government Version: 09/07/2004
Facility Id: 913030770
Status: Case Closed
Global ID: T0603702083

BOB SMITH BMW ***7050 TOPANGA CANYON*** ***NNW 0 - 1/8 (0.086 mi.)*** ***E42*** ***80***
Database: LUST, Date of Government Version: 09/10/2018
Database: LUST REG 4, Date of Government Version: 09/07/2004
Status: Completed - Case Closed
Facility Id: 913030761
Status: Case Closed
Global Id: T0603702082
Global ID: T0603702082

PACIFIC BELL ***6685 TOPANGA CYN BLV*** ***SSW 0 - 1/8 (0.101 mi.)*** ***F49*** ***91***
Database: LUST, Date of Government Version: 09/10/2018
Database: LUST REG 4, Date of Government Version: 09/07/2004
Status: Completed - Case Closed
Facility Id: 913030107
Status: Case Closed
Global Id: T0603702071
Global ID: T0603702071

REINHOLD GAMPER ***7140 REMMET AVE*** ***NE 1/4 - 1/2 (0.274 mi.)*** ***69*** ***125***
Database: LUST, Date of Government Version: 09/10/2018
Status: Open - Remediation
Global Id: T0603780785

95249-CHEVRON STATIO ***21937 SHERMAN WAY*** ***N 1/4 - 1/2 (0.277 mi.)*** ***70*** ***129***
Database: LUST, Date of Government Version: 09/10/2018

Status: Completed - Case Closed
Global Id: T10000005326

MONTGOMERY WARDS AUT ***6601 OWENSMOUTH AVE*** ***SSE 1/4 - 1/2 (0.315 mi.)*** ***75*** ***142***
Database: LUST REG 4, Date of Government Version: 09/07/2004
Facility Id: 913030870
Status: Case Closed
Global ID: T0603702093

WORTHMAN OIL S.S. (F 21404 SHERMAN WY NE 1/4 - 1/2 (0.368 mi.) N81 163
Database: LUST REG 4, Date of Government Version: 09/07/2004
Facility Id: 913030798
Status: Remediation Plan
Global ID: T0603702085

WORTHMAN OIL S.S. (F ***21404 SHERMAN WAY*** ***NE 1/4 - 1/2 (0.368 mi.)*** ***N82*** ***164***
Database: LUST, Date of Government Version: 09/10/2018
Status: Open - Remediation
Global Id: T0603702085

PRATT & WHITNEY ROCK ***6633 CANOGA AVE*** ***SE 1/4 - 1/2 (0.372 mi.)*** ***M87*** ***189***
Database: LUST REG 4, Date of Government Version: 09/07/2004
Facility Id: 913030043
Status: Remedial action (cleanup) Underway
Global ID: T0603702070

CHEVRON #20-2018 ***21403 SHERMAN WAY*** ***NE 1/4 - 1/2 (0.380 mi.)*** ***N89*** ***231***
Database: LUST, Date of Government Version: 09/10/2018
Status: Completed - Case Closed
Global Id: T0603742630

EXXON #7-3830 ***21401 SHERMAN WY*** ***NE 1/4 - 1/2 (0.383 mi.)*** ***N90*** ***234***
Database: LUST, Date of Government Version: 09/10/2018
Database: LUST REG 4, Date of Government Version: 09/07/2004
Status: Completed - Case Closed
Facility Id: 913030707
Status: Case Closed
Global Id: T0603702077
Global ID: T0603702077

EXXON ***7215 CANOGA*** ***NE 1/4 - 1/2 (0.396 mi.)*** ***N91*** ***236***
Database: LUST REG 4, Date of Government Version: 09/07/2004
Facility Id: 913030916
Status: Pollution Characterization
Global ID: T0603702096

HULL BROTHERS LUMBER ***21350 SHERMAN WY*** ***NE 1/4 - 1/2 (0.414 mi.)*** ***N93*** ***238***
Database: LUST, Date of Government Version: 09/10/2018
Database: LUST REG 4, Date of Government Version: 09/07/2004
Status: Completed - Case Closed
Facility Id: 913030898
Status: Pollution Characterization
Global Id: T0603702094
Global ID: T0603702094

INT'L MOTOR CYCLES I ***7233 CANOGA AVE*** ***NE 1/4 - 1/2 (0.427 mi.)*** ***O94*** ***242***
Database: LUST, Date of Government Version: 09/10/2018
Database: LUST REG 4, Date of Government Version: 09/07/2004
Status: Completed - Case Closed
Facility Id: 913030752
Status: Case Closed

Global Id: T0603702081
Global ID: T0603702081

BERGE MATOSSIAN #14- ***6423 TOPANGA CANYON*** ***S 1/4 - 1/2 (0.455 mi.)*** ***P96*** ***245***
Database: LUST, Date of Government Version: 09/10/2018
Status: Completed - Case Closed
Global Id: T0603793071

MOBIL #18-JT6 6423 TOPANGA CANYON S 1/4 - 1/2 (0.455 mi.) P97 252
Database: LUST REG 4, Date of Government Version: 09/07/2004
Facility Id: 913030934
Status: Leak being confirmed
Global ID: T0603793071

JC PENNY CO ***21500 VICTORY BLVD*** ***SSE 1/4 - 1/2 (0.461 mi.)*** ***Q99*** ***253***
Database: LUST REG 4, Date of Government Version: 09/07/2004
Facility Id: 913670643
Status: Case Closed
Global ID: T0603702400

SOUTHERN PACIFIC FAC ***7258 CANOGA AVE*** ***NE 1/4 - 1/2 (0.470 mi.)*** ***O100*** ***255***
Database: LUST, Date of Government Version: 09/10/2018
Database: LUST REG 4, Date of Government Version: 09/07/2004
Status: Completed - Case Closed
Facility Id: 913030725
Status: Case Closed
Global Id: T0603702078
Global ID: T0603702078

Lower Elevation	Address	Direction / Distance	Map ID	Page

RAYNE SOFTWATER OF T ***6953 CANOGA AVE*** ***ENE 1/4 - 1/2 (0.279 mi.)*** ***J71*** ***131***
Database: LUST, Date of Government Version: 09/10/2018
Status: Completed - Case Closed
Global Id: T0603702091

RAYNE SOFTWATER OF T 6953 CANOGA AVE ENE 1/4 - 1/2 (0.279 mi.) J72 137
Database: LUST REG 4, Date of Government Version: 09/07/2004
Facility Id: 913030852
Status: Preliminary site assessment underway
Global ID: T0603702091

COMMERCIAL PROPERTY 21401 VANOWEN ST ESE 1/4 - 1/2 (0.290 mi.) 73 138
Database: LUST, Date of Government Version: 09/10/2018
Status: Open - Remediation
Global Id: T10000008974

CALMAT FACILITY FORM 7001 DEERING AVE ENE 1/4 - 1/2 (0.357 mi.) K76 144
Database: LUST REG 4, Date of Government Version: 09/07/2004
Facility Id: 913030734
Status: Pollution Characterization
Global ID: T0603702079

FORMER CALMAT FACILI ***7001 DEERING*** ***ENE 1/4 - 1/2 (0.357 mi.)*** ***K77*** ***146***
Database: LUST, Date of Government Version: 09/10/2018
Status: Completed - Case Closed
Global Id: T0603702079

J W CHARLES JACOBI ***21341 VANOWEN ST*** ***ESE 1/4 - 1/2 (0.358 mi.)*** ***L78*** ***158***
Database: LUST REG 4, Date of Government Version: 09/07/2004
Facility Id: 913030907

Status: Pollution Characterization
Global ID: T0603702095

JACOBI BUILDING MATE ***21341 VANOWEN*** ***ESE 1/4 - 1/2 (0.358 mi.)*** ***L79*** ***160***
Database: LUST, Date of Government Version: 09/10/2018
Status: Completed - Case Closed
Global Id: T0603702095

CA CPS-SLIC: Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the CA CPS-SLIC list, as provided by EDR, has revealed that there are 10 CA CPS-SLIC sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
WHITE ANGEL CLEANERS	***22017 VANOWEN ST***	***SW 0 - 1/8 (0.052 mi.)***	***B40***	***71***
Database: CPS-SLIC, Date of Government Version: 09/10/2018 Facility Status: Open - Assessment & Interim Remedial Action Global Id: SL0603768586				
MONTGOMERY WARDS AUT	***6601 OWENSMOUTH AVE***	***SSE 1/4 - 1/2 (0.315 mi.)***	***75***	***142***
Database: CPS-SLIC, Date of Government Version: 09/10/2018 Facility Status: Completed - Case Closed Global Id: SL204071489 Global Id: T0603702093				
AEROJET ROCKETDYNE O	***6633 CANOGA AVE***	***SE 1/4 - 1/2 (0.372 mi.)***	***M84***	***174***
Database: CPS-SLIC, Date of Government Version: 09/10/2018 Facility Status: Open - Remediation Global Id: SL204281528				
AEROJECT ROCKETDYNE	***6633 CANOGA AVE***	***SE 1/4 - 1/2 (0.372 mi.)***	***M86***	***186***
Database: SLIC REG 4, Date of Government Version: 11/17/2004 Facility Status: Remediation				
ROCKWELL - BEST BUY	21601 VICTORY	SSE 1/4 - 1/2 (0.438 mi.)	95	244
Database: SLIC REG 4, Date of Government Version: 11/17/2004 Database: CPS-SLIC, Date of Government Version: 09/10/2018 Facility Status: Completed - Case Closed Facility Status: No further action required Global Id: SLT43134132				
BERGE MATOSSIAN #14-	***6423 TOPANGA CANYON***	***S 1/4 - 1/2 (0.455 mi.)***	***P96***	***245***
Database: CPS-SLIC, Date of Government Version: 09/10/2018 Facility Status: Open - Site Assessment Global Id: T0603759671				
JC PENNY CO.	21500 VICTORY	SSE 1/4 - 1/2 (0.461 mi.)	Q98	253
Database: SLIC REG 4, Date of Government Version: 11/17/2004 Facility Status: No further action required				
JC PENNY CO	***21500 VICTORY BLVD***	***SSE 1/4 - 1/2 (0.461 mi.)***	***Q99***	***253***
Database: CPS-SLIC, Date of Government Version: 09/10/2018 Facility Status: Completed - Case Closed Global Id: T0603702400				

Lower Elevation	Address	Direction / Distance	Map ID	Page
PRATT &WHITNEY - CAN	21600 VANOWEN STREET	SE 1/8 - 1/4 (0.165 mi.)	60	117
Database: CPS-SLIC, Date of Government Version: 09/10/2018				

Facility Status: Completed - Case Closed
Global Id: T10000003103

THE BOEING COMPANY - ***6620 CANOGA AVE*** ***SE 1/4 - 1/2 (0.363 mi.)*** ***M80*** ***162***
Database: CPS-SLIC, Date of Government Version: 09/10/2018
Facility Status: Completed - Case Closed
Global Id: SL0603777226

State and tribal registered storage tank lists

CA UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the State Water Resources Control Board's Hazardous Substance Storage Container Database.

A review of the CA UST list, as provided by EDR, has revealed that there are 6 CA UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
TOPANGA CAR WASH Database: UST, Date of Government Version: 09/10/2018 Facility Id: 23647	6829 TOPANGA CANYON	SW 0 - 1/8 (0.026 mi.)	B8	14
TOPANGA/VANOWEN SHEL Database: UST, Date of Government Version: 09/10/2018 Facility Id: 23496	22001 VANOWEN ST	SW 0 - 1/8 (0.031 mi.)	B21	49
RED CARPET CAR WASH Database: UST, Date of Government Version: 09/10/2018 Facility Id: 23646	6760 TOPANGA CANYON	SSW 0 - 1/8 (0.042 mi.)	D24	53
RED CARPET CAR WASH Database: UST, Date of Government Version: 09/10/2018	6760 N TOPANGA CANYO	SSW 0 - 1/8 (0.042 mi.)	D25	54
PACIFIC BELL Database: UST, Date of Government Version: 09/10/2018 Facility Id: 23498 Facility Id: FA0017591	***22012/18 VANOWEN ST***	***SW 0 - 1/8 (0.058 mi.)***	***B41***	***76***
PACIFIC BELL Database: UST, Date of Government Version: 09/10/2018 Facility Id: 24537	***6685 TOPANGA CANYON***	***SSW 1/8 - 1/4 (0.152 mi.)***	***F56***	***112***

CA AST: A listing of aboveground storage tank petroleum storage tank locations.

A review of the CA AST list, as provided by EDR, has revealed that there is 1 CA AST site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
WARNER AUTO CENTER Database: AST, Date of Government Version: 07/06/2016	7039 TOPANGA CANYON	NNW 0 - 1/8 (0.086 mi.)	E46	90

EXECUTIVE SUMMARY

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Landfill / Solid Waste Disposal Sites

CA WMUDS/SWAT: The Waste Management Unit Database System is used for program tracking and inventory of waste management units. The source is the State Water Resources Control Board.

A review of the CA WMUDS/SWAT list, as provided by EDR, and dated 04/01/2000 has revealed that there is 1 CA WMUDS/SWAT site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SANTA SUSANA FACILIT	***6633 CANOGA AVE***	***SE 1/4 - 1/2 (0.372 mi.)***	***M85***	***184***

Local Lists of Registered Storage Tanks

CA SWEEPS UST: Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

A review of the CA SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there are 9 CA SWEEPS UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
TOPANGA CAR WASH HOW Status: A Comp Number: 4530	***6829 TOPANGA CANYON***	***SW 0 - 1/8 (0.026 mi.)***	***B10***	***23***
THRIFTY OIL STATION Comp Number: 637	***6851 TOPANGA CANYON***	***WSW 0 - 1/8 (0.026 mi.)***	***C12***	***24***
SHELL OIL PRODUCTS U Status: A Tank Status: A Comp Number: 23	***22001 VANOWEN ST***	***SW 0 - 1/8 (0.031 mi.)***	***B16***	***36***
LEONARD J/NATHAN ELB Status: A Tank Status: A Comp Number: 1221	***6760 TOPANGA CANYON***	***SSW 0 - 1/8 (0.042 mi.)***	***D27***	***54***
PEP BOYS - CANOGA PA Comp Number: 260	***7020 TOPANGA CANYON***	***NNW 0 - 1/8 (0.047 mi.)***	***E33***	***67***
PACIFIC BELL Status: A Tank Status: A Comp Number: 3359	***22012/18 VANOWEN ST***	***SW 0 - 1/8 (0.058 mi.)***	***B41***	***76***
BOB SMITH BMW Comp Number: 1445	***7050 TOPANGA CANYON***	***NNW 0 - 1/8 (0.086 mi.)***	***E42***	***80***
PACIFIC BELL Status: A Comp Number: 8304	6685 TOPANGA CANYON	SSW 1/8 - 1/4 (0.135 mi.)	F55	111
PACIFIC BELL	***6685 TOPANGA CANYON***	***SSW 1/8 - 1/4 (0.152 mi.)***	***F56***	***112***

EXECUTIVE SUMMARY

Comp Number: 4932

CA HIST UST: Historical UST Registered Database.

A review of the CA HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there are 10 CA HIST UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
THRIFTY #141 (FORMER Facility Id: 00000005518	***6851 TOPANGA CANYON***	***WSW 0 - 1/8 (0.026 mi.)***	***C13***	***28***
JACK S KHANGURA	***22001 VAN OWEN***	***SW 0 - 1/8 (0.031 mi.)***	***B20***	***48***
JACK S. KHANGURA Facility Id: 00000000465	22001 VANOWEN ST	SW 0 - 1/8 (0.031 mi.)	B22	49
UNION OIL SERVICE ST Facility Id: 00000055313	6760 TOPANGA CANYON	SSW 0 - 1/8 (0.042 mi.)	D26	54
SERVICE STATION 4844 Facility Id: 00000017443	***6760 TOPANGA CANYON***	***SSW 0 - 1/8 (0.042 mi.)***	***D29***	***57***
PEP BOYS-CANOGA PARK Facility Id: 00000003745	7020 TOPANGA CANYON	NNW 0 - 1/8 (0.047 mi.)	E32	66
PACIFIC BELL Facility Id: 00000061192	***22012/18 VANOWEN ST***	***SW 0 - 1/8 (0.058 mi.)***	***B41***	***76***
BOB SMITH BMW Facility Id: 00000020679	***7050 TOPANGA CANYON***	***NNW 0 - 1/8 (0.086 mi.)***	***E42***	***80***
BOB SMITH BMW	7050 TOPANGA CYN BLV	NNW 0 - 1/8 (0.086 mi.)	E44	88
WADE ROUSS Facility Id: 00000029056	***7100 TOPANGA CANYON***	***NNW 1/8 - 1/4 (0.131 mi.)***	***51***	***98***

CA FID UST: The Facility Inventory Database contains active and inactive underground storage tank locations. The source is the State Water Resource Control Board.

A review of the CA FID UST list, as provided by EDR, and dated 10/31/1994 has revealed that there are 8 CA FID UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
TOPANGA CAR WASH HOW Facility Id: 19002589 Status: I	***6829 TOPANGA CANYON***	***SW 0 - 1/8 (0.026 mi.)***	***B10***	***23***
THRIFTY OIL STATION Facility Id: 19002488 Status: I	***6851 TOPANGA CANYON***	***WSW 0 - 1/8 (0.026 mi.)***	***C12***	***24***
SHELL OIL PRODUCTS U Facility Id: 19001593 Status: A	***22001 VANOWEN ST***	***SW 0 - 1/8 (0.031 mi.)***	***B16***	***36***
LEONARD J/NATHAN ELB Facility Id: 19002701 Status: A	***6760 TOPANGA CANYON***	***SSW 0 - 1/8 (0.042 mi.)***	***D27***	***54***
PEP BOYS - CANOGA PA	***7020 TOPANGA CANYON***	***NNW 0 - 1/8 (0.047 mi.)***	***E33***	***67***

Facility Id: 19030581 Status: I				
PACIFIC BELL Facility Id: 19002085 Status: A	***22012/18 VANOWEN ST***	***SW 0 - 1/8 (0.058 mi.)***	***B41***	***76***
BOB SMITH BMW Facility Id: 19017160 Status: I	***7050 TOPANGA CANYON***	***NNW 0 - 1/8 (0.086 mi.)***	***E42***	***80***
PACIFIC BELL Facility Id: 19002071 Status: I	***6685 TOPANGA CYN BLV***	***SSW 0 - 1/8 (0.101 mi.)***	***F49***	***91***

Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 03/01/2018 has revealed that there are 3 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
PEP BOYS EPA ID:: CAD982007221	***7020 TOPANGA CANYON***	***NNW 0 - 1/8 (0.047 mi.)***	***E34***	***67***
DEPENDABLE AUTO REPA EPA ID:: CAD982473431	***7039 TOPANGA CYN BLV***	***NNW 0 - 1/8 (0.086 mi.)***	***E45***	***88***
TOP OF THE LINE CLEA EPA ID:: CAD982436552	***7138 OWENSMOUTH AVE***	***NNE 1/8 - 1/4 (0.223 mi.)***	***I66***	***122***

CA DRYCLEANERS: A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaners' agents; linen supply; coin-operated laundries and cleaning; drycleaning plants except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

A review of the CA DRYCLEANERS list, as provided by EDR, has revealed that there are 10 CA DRYCLEANERS sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CALIFORNIA CLEANERS Database: DRYCLEAN SOUTH COAST, Date of Government Version: 10/04/2018	22017 VANOWEN	SW 0 - 1/8 (0.052 mi.)	B35	69
N & E CLEANERS, NAHL Database: DRYCLEAN SOUTH COAST, Date of Government Version: 10/04/2018	22017 VANOWEN ST	SW 0 - 1/8 (0.052 mi.)	B36	69
WHITE ANGEL'S CLEANE Database: DRYCLEAN SOUTH COAST, Date of Government Version: 10/04/2018	22017 VANOWEN ST	SW 0 - 1/8 (0.052 mi.)	B37	70
WHITE ANGELS CLEANER Database: DRYCLEAN SOUTH COAST, Date of Government Version: 10/04/2018	22017 VANOWEN ST	SW 0 - 1/8 (0.052 mi.)	B38	70

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
WHITE ANGEL CLEANERS	***22017 VANOWEN ST***	***SW 0 - 1/8 (0.052 mi.)***	***B40***	***71***
Database: DRYCLEANERS, Date of Government Version: 08/30/2018 EPA Id: CAL000231729				
TOP OF THE LINE CLEA	7138 OWENSMOUTH AVE	NNE 1/8 - 1/4 (0.223 mi.)	I63	121
Database: DRYCLEAN SOUTH COAST, Date of Government Version: 10/04/2018				
TOP OF THE LINE CLEA	7138 OWENSMOUTH AVE	NNE 1/8 - 1/4 (0.223 mi.)	I64	122
Database: DRYCLEAN SOUTH COAST, Date of Government Version: 10/04/2018				
TOP OF THE LINE CLEA	7138 OWENSMOUTH AVE	NNE 1/8 - 1/4 (0.223 mi.)	I65	122
Database: DRYCLEAN SOUTH COAST, Date of Government Version: 10/04/2018				
COSMOS CLEANERS	7138 OWENSMOUTH AVE	NNE 1/8 - 1/4 (0.223 mi.)	I67	124
Database: DRYCLEAN SOUTH COAST, Date of Government Version: 10/04/2018				
TOP OF THE LINE CLEA	7138 OWENSMOUTH AVE	NNE 1/8 - 1/4 (0.223 mi.)	I68	125
Database: DRYCLEAN SOUTH COAST, Date of Government Version: 10/04/2018				

CA HIST CORTESE: The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

A review of the CA HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there are 20 CA HIST CORTESE sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
TOPANGA CAR WASH Reg Id: 913030116	6829 TOPANGA CNYN	SW 0 - 1/8 (0.026 mi.)	B6	13
THRIFTY #141 (FORMER Reg Id: 913030616	6851 TOPANGA CNYN	WSW 0 - 1/8 (0.026 mi.)	C11	24
SHELL #204-1242-0604 Reg Id: 913030689	***22001 VANOWEN***	***SW 0 - 1/8 (0.031 mi.)***	***B18***	***38***
UNOCAL #4844 Reg Id: 913030507	***6760 TOPANGA CANYON***	***SSW 0 - 1/8 (0.042 mi.)***	***D30***	***63***
PACIFIC BELL (B1-100 Reg Id: 913030770	***22012 VANOWEN ST***	***SW 0 - 1/8 (0.045 mi.)***	***B31***	***65***
BOB SMITH BMW Reg Id: 91303761	7050 TOPANGA CNYN	NNW 0 - 1/8 (0.086 mi.)	E43	88
PACIFIC BELL (B1-320 Reg Id: 913030107	6685 TOPANGA CNYN	SSW 1/8 - 1/4 (0.152 mi.)	F57	112
MONTGOMERY WARDS AUT Reg Id: 913030870	***6601 OWENSMOUTH AVE***	***SSE 1/4 - 1/2 (0.315 mi.)***	***75***	***142***
WORTHMAN OIL S.S. (F Reg Id: 913030798	***21404 SHERMAN WAY***	***NE 1/4 - 1/2 (0.368 mi.)***	***N82***	***164***
MAGNOLIA SHOPPING CE Reg Id: 2923	66206633 CANOGA AVE	SE 1/4 - 1/2 (0.370 mi.)	M83	174
AEROJET ROCKETDYNE O Reg Id: 913030043	***6633 CANOGA AVE***	***SE 1/4 - 1/2 (0.372 mi.)***	***M84***	***174***
EXXON #7-3830	***21401 SHERMAN WY***	***NE 1/4 - 1/2 (0.383 mi.)***	***N90***	***234***

Reg Id: 913030707

EXXON Reg Id: 913030916	***7215 CANOGA***	***NE 1/4 - 1/2 (0.396 mi.)***	***N91***	***236***
HULL BROTHERS LUMBER Reg Id: 913030898	***21350 SHERMAN WY***	***NE 1/4 - 1/2 (0.414 mi.)***	***N93***	***238***
INT'L MOTOR CYCLES I Reg Id: 913030752	***7233 CANOGA AVE***	***NE 1/4 - 1/2 (0.427 mi.)***	***O94***	***242***
JC PENNY CO Reg Id: 913670643	***21500 VICTORY BLVD***	***SSE 1/4 - 1/2 (0.461 mi.)***	***Q99***	***253***
SOUTHERN PACIFIC FAC Reg Id: 913030725	***7258 CANOGA AVE***	***NE 1/4 - 1/2 (0.470 mi.)***	***O100***	***255***

Lower Elevation	Address	Direction / Distance	Map ID	Page
RAYNE SOFTWATER OF T Reg Id: 913030852	***6953 CANOGA AVE***	***ENE 1/4 - 1/2 (0.279 mi.)***	***J71***	***131***
FORMER CALMAT FACILI Reg Id: 913030734	***7001 DEERING***	***ENE 1/4 - 1/2 (0.357 mi.)***	***K77***	***146***
JACOBI BUILDING MATE Reg Id: 913030907	***21341 VANOWEN***	***ESE 1/4 - 1/2 (0.358 mi.)***	***L79***	***160***

CA HWP: Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

A review of the CA HWP list, as provided by EDR, and dated 08/20/2018 has revealed that there is 1 CA HWP site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
AEROJET ROCKETDYNE O EPA Id: CAD074103771 Cleanup Status: CLOSED	***6633 CANOGA AVE***	***SE 1/4 - 1/2 (0.372 mi.)***	***M84***	***174***

CA Notify 65: Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

A review of the CA Notify 65 list, as provided by EDR, and dated 09/19/2018 has revealed that there is 1 CA Notify 65 site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
LAMCO DEVELOPERS	21300 VICTORY BLVD.	SE 1/2 - 1 (0.581 mi.)	101	257

EXECUTIVE SUMMARY

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR Hist Auto: EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR Hist Auto list, as provided by EDR, has revealed that there are 8 EDR Hist Auto sites within approximately 0.125 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
VERNS AUTOMOTIVE & T	6813 1/2 TOPANGA CAN	SW 0 - 1/8 (0.017 mi.)	B5	13
TOPANGA CAR WASH	6829 TOPANGA CANYON	SW 0 - 1/8 (0.026 mi.)	B7	13
THRIFTY OIL CO INC	6851 TOPANGA CANYON	WSW 0 - 1/8 (0.026 mi.)	C15	35
SHELL SERVICE STATIO	22001 VAN OWEN	SW 0 - 1/8 (0.031 mi.)	B17	38
RED CARPET CAR WASH	6760 TOPANGA CYN BLV	SSW 0 - 1/8 (0.042 mi.)	D28	56
RADEMACHER ROBERT W	7056 TOPANGA CANYON	NNW 0 - 1/8 (0.092 mi.)	E47	91
Lower Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
PALMA FELIPE J	21631 VANOWEN	SE 0 - 1/8 (0.101 mi.)	48	91
S&K ARCO INC	7018 OWENSMOUTH AVE	NE 0 - 1/8 (0.103 mi.)	50	97

EDR Hist Cleaner: EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR Hist Cleaner list, as provided by EDR, has revealed that there is 1 EDR Hist Cleaner site within approximately 0.125 miles of the target property.

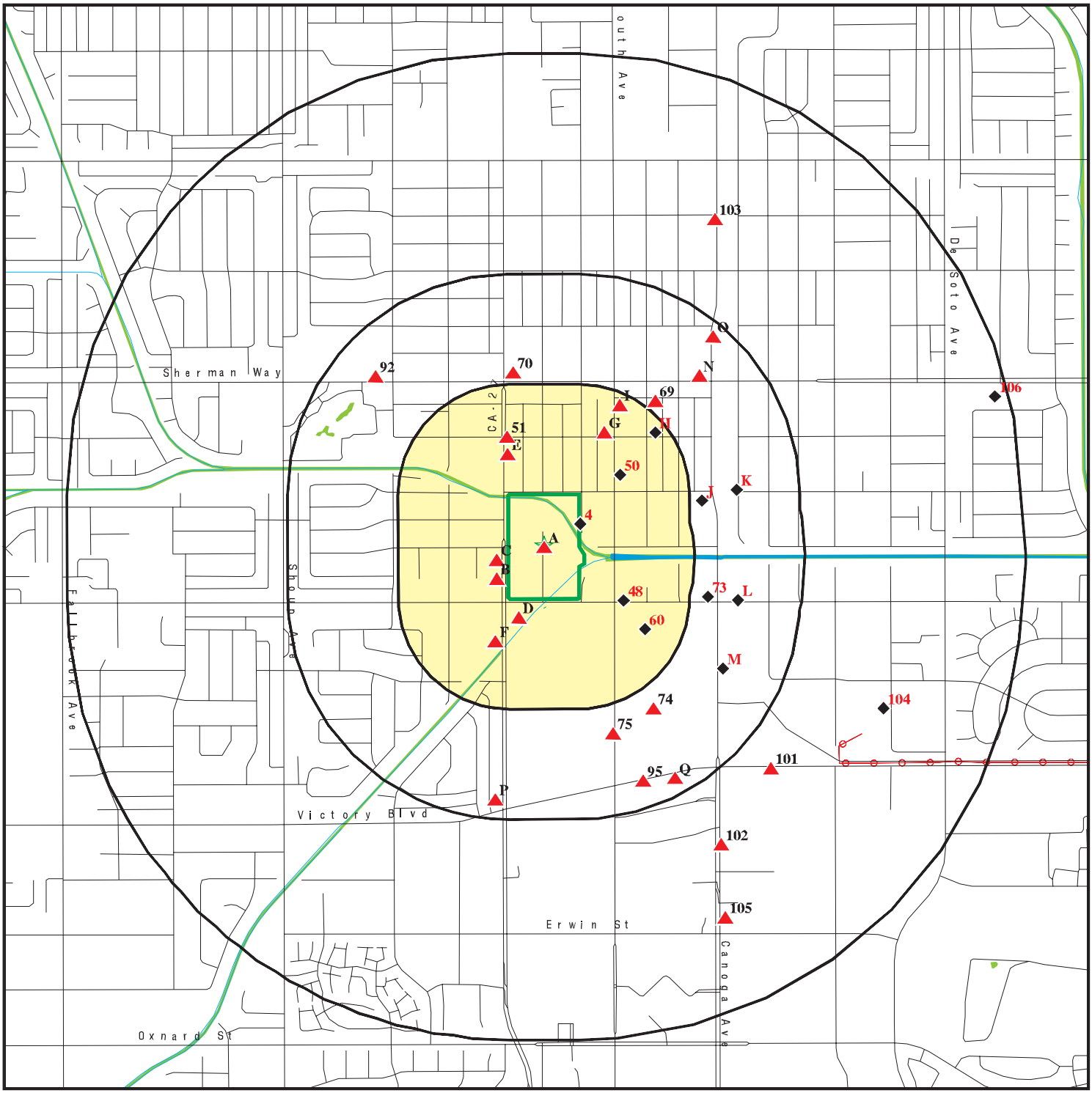
Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
N E CLEANERS	22017 VANOWEN ST	SW 0 - 1/8 (0.052 mi.)	B39	71

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 1 records.

Site Name	Database(s)
FLOWSERVE CORPORATION	SEMS

OVERVIEW MAP - 5499207.2S



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: CANOGA PARK HIGH SCHOOL	CLIENT: Eco & Associates, Inc.
ADDRESS: 6850 Topanga Canyon Blvd Canoga Park CA 91303	CONTACT: Filmon Tesfaslasie
LAT/LONG: 34.195576 / 118.604331	INQUIRY #: 5499207.2s DATE: November 30, 2018 3:11 pm

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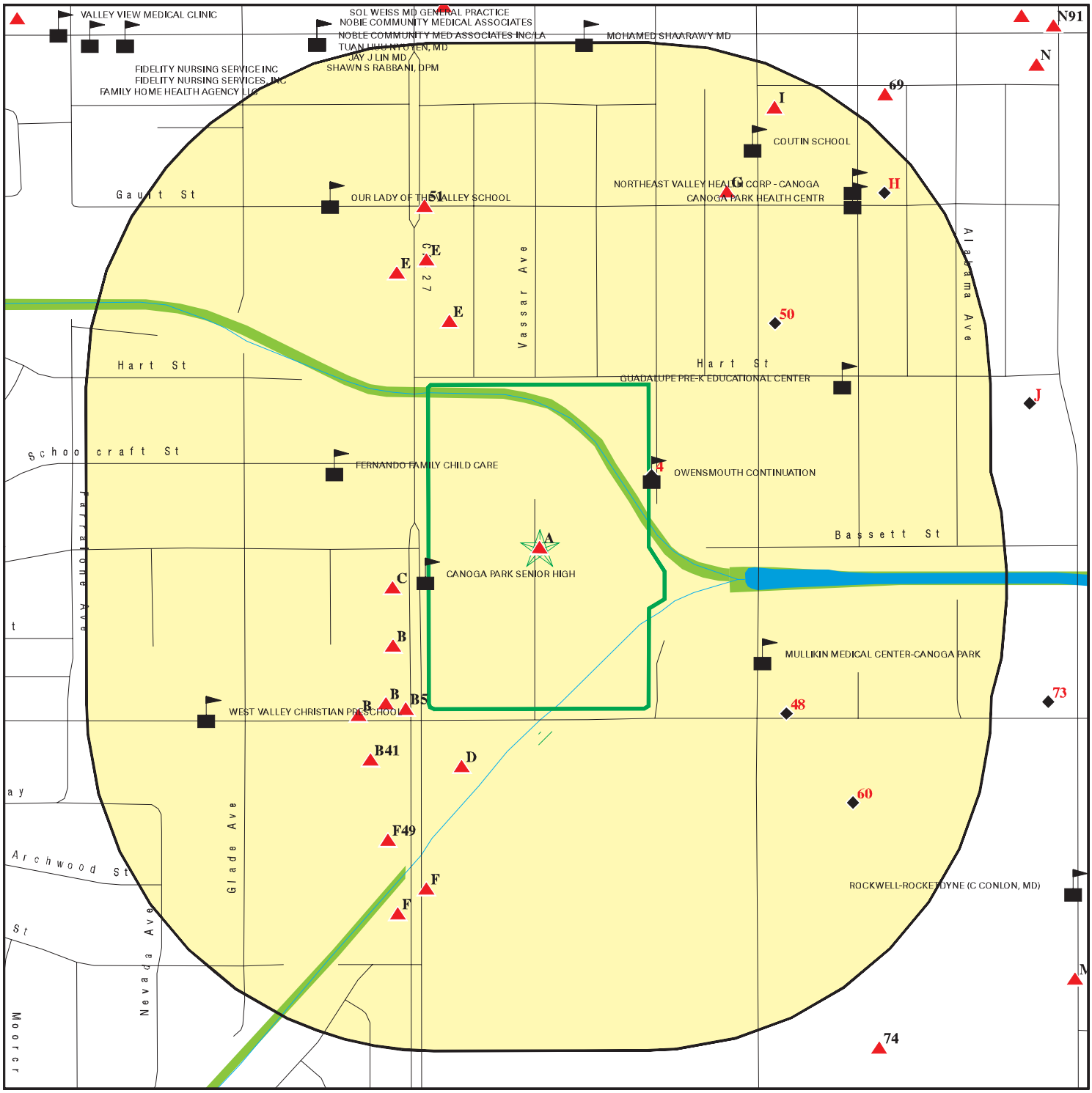
DETAIL MAP - 5499207.2S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

Sensitive Receptors

National Priority List Sites

Dept. Defense Sites

0 1/16 1/8 1/4 Miles

Indian Reservations BIA

100-year flood zone

500-year flood zone

National Wetland Inventory

State Wetlands

Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	CANOGA PARK HIGH SCHOOL	CLIENT:	Eco & Associates, Inc.
ADDRESS:	6850 Topanga Canyon Blvd Canoga Park CA 91303	CONTACT:	Filmon Tesfaslasie
LAT/LONG:	34.195576 / 118.604331	INQUIRY #:	5499207.2s
		DATE:	November 30, 2018 3:12 pm

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	0.001		0	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site list								
SEMS-ARCHIVE	0.500		0	0	1	NR	NR	1
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	1	0	NR	1
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	1	NR	NR	1
Federal RCRA generators list								
RCRA-LQG	0.250		1	2	NR	NR	NR	3
RCRA-SQG	0.250		5	4	NR	NR	NR	9
RCRA-CESQG	0.250		0	1	NR	NR	NR	1
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	0.001		0	NR	NR	NR	NR	0
State- and tribal - equivalent NPL								
CA RESPONSE	1.000		0	0	0	0	NR	0
State- and tribal - equivalent CERCLIS								
CA ENVIROSTOR	1.000		0	0	3	5	NR	8
State and tribal landfill and/or solid waste disposal site lists								
CA SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking storage tank lists								
CA LUST	0.500		11	0	22	NR	NR	33

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN LUST	0.500		0	0	0	NR	NR	0
CA CPS-SLIC	0.500		1	1	8	NR	NR	10
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0
CA UST	0.250		5	1	NR	NR	NR	6
CA AST	0.250		1	0	NR	NR	NR	1
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal voluntary cleanup sites								
CA VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
CA BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
CA WMUDS/SWAT	0.500		0	0	1	NR	NR	1
CA SWRCY	0.500		0	0	0	NR	NR	0
CA HAULERS	0.001		0	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
CA AOCONCERN	1.000		0	0	0	0	NR	0
US HIST CDL	0.001		0	NR	NR	NR	NR	0
CA HIST Cal-Sites	1.000		0	0	0	0	NR	0
CA SCH	0.250		0	0	NR	NR	NR	0
CA CDL	0.001		0	NR	NR	NR	NR	0
CA Toxic Pits	1.000		0	0	0	0	NR	0
US CDL	0.001		0	NR	NR	NR	NR	0
CA CERS HAZ WASTE	0.250		0	0	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
CA SWEEPS UST	0.250		7	2	NR	NR	NR	9
CA HIST UST	0.250		9	1	NR	NR	NR	10
CA FID UST	0.250		8	0	NR	NR	NR	8
CA CERS TANKS	0.250		0	0	NR	NR	NR	0
Local Land Records								
CA LIENS	0.001		0	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
LIENS 2	0.001		0	NR	NR	NR	NR	0
CA DEED	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	0.001		0	NR	NR	NR	NR	0
CA CHMIRS	0.001		0	NR	NR	NR	NR	0
CA LDS	0.001		0	NR	NR	NR	NR	0
CA MCS	0.001		0	NR	NR	NR	NR	0
CA SPILLS 90	0.001		0	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		2	1	NR	NR	NR	3
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		0	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	0.001		0	NR	NR	NR	NR	0
TRIS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001		0	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	0.001		0	NR	NR	NR	NR	0
RAATS	0.001		0	NR	NR	NR	NR	0
PRP	0.001		0	NR	NR	NR	NR	0
PADS	0.001		0	NR	NR	NR	NR	0
ICIS	0.001		0	NR	NR	NR	NR	0
FTTS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001		0	NR	NR	NR	NR	0
COAL ASH DOE	0.001		0	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	0.001		0	NR	NR	NR	NR	0
RADINFO	0.001		0	NR	NR	NR	NR	0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
DOT OPS	0.001		0	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	0.001		0	NR	NR	NR	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	0.001		0	NR	NR	NR	NR	0
US AIRS	0.001		0	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.001		0	NR	NR	NR	NR	0
FINDS	0.001	1	0	NR	NR	NR	NR	1
ECHO	0.001		0	NR	NR	NR	NR	0
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
CA Cortese	0.500		0	0	0	NR	NR	0
CA CUPA Listings	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
CA DRYCLEANERS	0.250		5	5	NR	NR	NR	10
CA EMI	0.001	1	0	NR	NR	NR	NR	1
CA ENF	0.001		0	NR	NR	NR	NR	0
CA Financial Assurance	0.001		0	NR	NR	NR	NR	0
CA HAZNET	0.001	1	0	NR	NR	NR	NR	1
CA ICE	0.001		0	NR	NR	NR	NR	0
CA HIST CORTESE	0.500		6	1	13	NR	NR	20
CA LOS ANGELES CO. HMS	0.001		0	NR	NR	NR	NR	0
CA HWP	1.000		0	0	1	0	NR	1
CA HWT	0.250		0	0	NR	NR	NR	0
NY MANIFEST	0.250		0	0	NR	NR	NR	0
CA MINES	0.001		0	NR	NR	NR	NR	0
CA MWMP	0.250		0	0	NR	NR	NR	0
CA NPDES	0.001		0	NR	NR	NR	NR	0
CA PEST LIC	0.001		0	NR	NR	NR	NR	0
CA PROC	0.500		0	0	0	NR	NR	0
CA Notify 65	1.000		0	0	0	1	NR	1
LA Co. Site Mitigation	0.001		0	NR	NR	NR	NR	0
CA UIC	0.001		0	NR	NR	NR	NR	0
CA WASTEWATER PITS	0.500		0	0	0	NR	NR	0
CA WDS	0.001		0	NR	NR	NR	NR	0
CA WIP	0.250		0	0	NR	NR	NR	0
CA CIWQS	0.001		0	NR	NR	NR	NR	0
CA SAMPLING POINT	0.001		0	NR	NR	NR	NR	0
CA OTHER OIL GAS	0.001		0	NR	NR	NR	NR	0
CA WELL STIM PROJ	0.001		0	NR	NR	NR	NR	0
CA WDR	0.001		0	NR	NR	NR	NR	0
CA CERS	0.001		0	NR	NR	NR	NR	0
CA UIC GEO	0.001		0	NR	NR	NR	NR	0
CA PROD WATER PONDS	0.001		0	NR	NR	NR	NR	0
CA NON-CASE INFO	0.001		0	NR	NR	NR	NR	0
CA MILITARY PRIV SITES	0.001		0	NR	NR	NR	NR	0
CA PROJECT	0.001		0	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		8	NR	NR	NR	NR	8
EDR Hist Cleaner	0.125		1	NR	NR	NR	NR	1
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
CA RGA LF	0.001		0	NR	NR	NR	NR	0
CA RGA LUST	0.001		0	NR	NR	NR	NR	0
- Totals --		3	70	19	51	6	0	149

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1 **LA UNI SCH DIST, CANOGA PARK S** **CA EMI** **S106834240**
Target **6850 TOPANGA CANYON BLVD** **N/A**
Property **CANOGA PARK, CA 91303**

Site 1 of 3 in cluster A

Actual: **796 ft.**

EMI:

Year:	1990
County Code:	19
Air Basin:	SC
Facility ID:	72693
Air District Name:	SC
SIC Code:	8211
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

A2 **LAUSD/CANOGA PARK HIGH SCHOOL** **CA HAZNET** **S113013215**
Target **6850 TOPANGA CYN BLVD** **N/A**
Property **CANOGA PARK, CA 91303**

Site 2 of 3 in cluster A

Actual: **796 ft.**

HAZNET:

envid:	S113013215
Year:	2017
GEPAID:	CAD982039265
Contact:	PAT SCHAENEN
Telephone:	2132413356
Mailing Name:	Not reported
Mailing Address:	333 S BEAUDRY AVE FL 21
Mailing City,St,Zip:	LOS ANGELES, CA 900170000
Gen County:	Los Angeles
TSD EPA ID:	CAD009007626
TSD County:	Los Angeles
Waste Category:	Asbestos containing waste
Disposal Method:	Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons:	0.23
Cat Decode:	Asbestos containing waste
Method Decode:	Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Facility County:	Los Angeles

envid:	S113013215
Year:	2015
GEPAID:	CAD982039265
Contact:	PAT SCHAENEN
Telephone:	2132413921
Mailing Name:	Not reported
Mailing Address:	333 S BEAUDRY AVE FL 28
Mailing City,St,Zip:	LOS ANGELES, CA 900170000
Gen County:	Los Angeles

LAUSD/CANOGA PARK HIGH SCHOOL (Continued) **S113013215**

TSD EPA ID: TXD055141378
TSD County: 99
Waste Category: Other inorganic solid waste
Disposal Method: Incineration--Thermal Destruction Other Than Use As A Fuel
Tons: 0.3065
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

envid: S113013215
Year: 2015
GEPAID: CAD982039265
Contact: PAT SCHAENEN
Telephone: 2132413921
Mailing Name: Not reported
Mailing Address: 333 S BEAUDRY AVE FL 28
Mailing City,St,Zip: LOS ANGELES, CA 900170000
Gen County: Los Angeles
TSD EPA ID: CAD009007626
TSD County: Los Angeles
Waste Category: Asbestos containing waste
Disposal Method: Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons: 0.46
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

envid: S113013215
Year: 2015
GEPAID: CAD982039265
Contact: PAT SCHAENEN
Telephone: 2132413921
Mailing Name: Not reported
Mailing Address: 333 S BEAUDRY AVE FL 28
Mailing City,St,Zip: LOS ANGELES, CA 900170000
Gen County: Los Angeles
TSD EPA ID: TXD055141378
TSD County: 99
Waste Category: Polychlorinated biphenyls and material containing PCBs
Disposal Method: Incineration--Thermal Destruction Other Than Use As A Fuel
Tons: 0.22481
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

envid: S113013215
Year: 2014
GEPAID: CAD982039265
Contact: PAT SCHAENEN
Telephone: 2132413921
Mailing Name: Not reported
Mailing Address: 780 S BEAUDRY AVE FL 28
Mailing City,St,Zip: LOS ANGELES, CA 900170000
Gen County: Los Angeles
TSD EPA ID: CAD009007626
TSD County: Los Angeles

LAUSD/CANOGA PARK HIGH SCHOOL (Continued) **S113013215**

Waste Category: Asbestos containing waste
Disposal Method: Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons: 1.2
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

Click this hyperlink while viewing on your computer to access
30 additional CA_HAZNET: record(s) in the EDR Site Report.

A3 Target Property **LAUSD - CANOGA PARK HIGH SCHOOL** **FINDS** **1023308993**
6850 N TOPANGA CANYON BLVD **N/A**
CANOGA PARK, CA 91303

Site 3 of 3 in cluster A

Actual: 796 ft.

FINDS:

Registry ID: 110066016787

Environmental Interest/Information System
STATE MASTER

Click this hyperlink while viewing on your computer to access
additional FINDS: detail in the EDR Site Report.

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4 ENE < 1/8 0.002 mi. 11 ft. **OWENSMOUTH CONTINUATION HIGH SCHOOL** **RCRA-LQG** **1011861635**
6921 JORDON AVE **CAR000195883**
CANOGA PARK, CA 91303

Relative: Lower

Actual: 795 ft.

RCRA-LQG:
Date form received by agency: 10/10/2008
Facility name: OWENSMOUTH CONTINUATION HIGH SCHOOL
Facility address: 6921 JORDON AVE
CANOGA PARK, CA 91303
EPA ID: CAR000195883
Mailing address: 333 S BEAUDRY AVE
20TH FL LAUSD OEHS
LOS ANGELES, CA 90017
Contact: SOE AUNG
Contact address: 333 S BEAUDRY AVE 20TH FL LAUSD OEHS
LOS ANGELES, CA 90017
Contact country: US
Contact telephone: 213-241-3904
Contact email: SOE.AUNG@LAUSD.NET
EPA Region: 09
Classification: Large Quantity Generator
Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous

OWENSMOUTH CONTINUATION HIGH SCHOOL (Continued) **1011861635**

waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name:	LAUSD
Owner/operator address:	333 S BEAUDRY AVE
	LOS ANGELES, CA 90017
Owner/operator country:	US
Owner/operator telephone:	Not reported
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	District
Owner/Operator Type:	Owner
Owner/Op start date:	11/14/1989
Owner/Op end date:	Not reported

Owner/operator name:	OWENSMOUTH CONTINUATION SCHOOL
Owner/operator address:	Not reported
	Not reported
Owner/operator country:	Not reported
Owner/operator telephone:	Not reported
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	District
Owner/Operator Type:	Operator
Owner/Op start date:	11/14/1989
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

. Waste code:	D008
. Waste name:	LEAD

Violation Status: No violations found

B5 **VERNS AUTOMOTIVE & TRANSM SV** **EDR Hist Auto** **1021170711**
SW **6813 1/2 TOPANGA CANYON** **N/A**
< 1/8 **CANOGA PARK, CA 91303**
0.017 mi.
90 ft. **Site 1 of 22 in cluster B**

Relative: EDR Hist Auto
Higher

Actual:
799 ft.

Year:	Name:	Type:
1970	VERNS AUTOMOTIVE & TRANSMISSIO	General Automotive Repair Shops
1971	VERNS AUTOMOTIVE & TRANSM	Gasoline Service Stations
1972	VERNS AUTOMOTIVE & TRANSM SV	Automotive Repair Shops, NEC
1973	VERNS AUTOMOTIVE & TRANSM SV	Automotive Repair Shops, NEC
1974	VERNS AUTOMOTIVE & TRANSM SV	Automotive Repair Shops, NEC
1975	VERNS AUTOMOTIVE & TRANSM SV	Automotive Repair Shops, NEC

B6 **TOPANGA CAR WASH** **CA HIST CORTESE** **S105023051**
SW **6829 TOPANGA CNYN** **N/A**
< 1/8 **CANOGA PARK, CA 91303**
0.026 mi.
137 ft. **Site 2 of 22 in cluster B**

Relative: HIST CORTESE:
Higher

Actual:
798 ft.

Region:	CORTESE
Facility County Code:	19
Reg By:	LTNKA
Reg Id:	913030116

B7 **TOPANGA CAR WASH** **EDR Hist Auto** **1020485092**
SW **6829 TOPANGA CANYON BLVD** **N/A**
< 1/8 **CANOGA PARK, CA 91304**
0.026 mi.
137 ft. **Site 3 of 22 in cluster B**

Relative: EDR Hist Auto
Higher

Actual:
798 ft.

Year:	Name:	Type:
1975	TOPANGA CAR WASH	Carwashes
1976	TOPANGA CAR WASH	Carwashes
1977	TOPANGA CAR WASH	Carwashes
1982	TOPANGA CAR WASH	Carwashes
1983	TOPANGA CAR WASH	Carwashes
1985	TOPANGA CAR WASH	Carwashes
1986	TOPANGA CAR WASH	Carwashes
1987	TOPANGA CAR WASH	Carwashes
1988	TOPANGA CAR WASH	Carwashes
1989	TOPANGA CAR WASH	Carwashes
1990	TOPANGA CAR WASH	Carwashes
1991	TOPANGA CAR WASH	Carwashes
1992	TOPANGA CAR WASH	Carwashes
1993	TOPANGA CAR WASH	Carwashes
1994	TOPANGA CAR WASH	Carwashes
1995	TOPANGA CAR WASH INC	Carwashes
1996	TOP CAR INC	Carwashes
1997	TOP CAR INC	Carwashes
1998	TOP CAR INC	Carwashes
1999	TOP CAR INC	Carwashes
2000	TOP CAR INC	Carwashes

TOPANGA CAR WASH (Continued) **1020485092**

2001	TOP CAR INC	Carwashes
2002	TOP CAR INC	Carwashes
2003	TOP CAR INC	Carwashes
2004	TOP CAR INC	Carwashes
2005	TOP CAR INC	Carwashes
2006	TOP CAR INC	Carwashes
2007	TOP CAR INC	Carwashes
2008	TOP CAR INC	Carwashes
2009	TOP CAR INC	Carwashes
2010	TOP CAR INC	Carwashes
2011	TOP CAR INC	Carwashes
2012	TOP CAR INC	Carwashes
2013	TOP CAR INC	Carwashes
2014	TOP CAR INC	Carwashes

B8 **TOPANGA CAR WASH** **CA UST** **U003780158**
SW **6829 TOPANGA CANYON BLVD** **N/A**
< 1/8 **CANOGA PARK, CA 91303**
0.026 mi.
137 ft. **Site 4 of 22 in cluster B**

Relative: **Higher**

Actual: **798 ft.**

UST:

Facility ID:	23647
Permitting Agency:	LOS ANGELES, CITY OF
Latitude:	34.1959256
Longitude:	-118.6050653

B9 **TOPANGA CAR WASH** **CA LUST** **S101295732**
SW **6829 TOPANGA CANYON BLVD** **N/A**
< 1/8 **LOS ANGELES, CA 91303**
0.026 mi.
137 ft. **Site 5 of 22 in cluster B**

Relative: **Higher**

Actual: **798 ft.**

LUST:

Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0603702072
Global Id:	T0603702072
Latitude:	34.1943807
Longitude:	-118.6059823
Status:	Completed - Case Closed
Status Date:	07/14/2017
Case Worker:	MB
RB Case Number:	913030116
Local Agency:	LOS ANGELES, CITY OF
File Location:	Regional Board
Local Case Number:	Not reported
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

LUST:

Global Id:	T0603702072
Contact Type:	Local Agency Caseworker
Contact Name:	ELOY LUNA
Organization Name:	LOS ANGELES, CITY OF
Address:	200 North Main Street, Suite 1780

TOPANGA CAR WASH (Continued) **S101295732**

City: LOS ANGELES
Email: eloy.luna@lacity.org
Phone Number: Not reported

Global Id: T0603702072
Contact Type: Regional Board Caseworker
Contact Name: MAGDY BAIADY
Organization Name: LOS ANGELES RWQCB (REGION 4)
Address: 320 W. 4TH ST., SUITE 200
City: LOS ANGELES
Email: mbaiady@waterboards.ca.gov
Phone Number: 2135766699

LUST:
Global Id: T0603702072
Action Type: RESPONSE
Date: 01/15/2011
Action: Conceptual Site Model

Global Id: T0603702072
Action Type: RESPONSE
Date: 03/28/2011
Action: Clean Up Fund - 5-Year Review Summary

Global Id: T0603702072
Action Type: RESPONSE
Date: 04/15/2006
Action: Monitoring Report - Quarterly

Global Id: T0603702072
Action Type: RESPONSE
Date: 04/15/2006
Action: Soil and Water Investigation Report

Global Id: T0603702072
Action Type: RESPONSE
Date: 10/15/2006
Action: Monitoring Report - Quarterly

Global Id: T0603702072
Action Type: ENFORCEMENT
Date: 05/20/2009
Action: Staff Letter

Global Id: T0603702072
Action Type: RESPONSE
Date: 01/15/2006
Action: Soil and Water Investigation Report

Global Id: T0603702072
Action Type: RESPONSE
Date: 07/15/2011
Action: Monitoring Report - Semi-Annually

Global Id: T0603702072
Action Type: ENFORCEMENT
Date: 08/11/1998

TOPANGA CAR WASH (Continued) **S101295732**

Action: Staff Letter

Global Id: T0603702072
Action Type: RESPONSE
Date: 02/27/2003
Action: Soil and Water Investigation Workplan

Global Id: T0603702072
Action Type: RESPONSE
Date: 01/15/2003
Action: Soil and Water Investigation Report

Global Id: T0603702072
Action Type: RESPONSE
Date: 10/15/2003
Action: Soil and Water Investigation Report

Global Id: T0603702072
Action Type: ENFORCEMENT
Date: 12/05/2003
Action: Site Visit / Inspection / Sampling

Global Id: T0603702072
Action Type: RESPONSE
Date: 07/15/2014
Action: Soil and Water Investigation Report

Global Id: T0603702072
Action Type: RESPONSE
Date: 01/15/2007
Action: Monitoring Report - Quarterly

Global Id: T0603702072
Action Type: RESPONSE
Date: 01/15/2010
Action: Monitoring Report - Semi-Annually

Global Id: T0603702072
Action Type: RESPONSE
Date: 07/15/2009
Action: Conceptual Site Model

Global Id: T0603702072
Action Type: RESPONSE
Date: 01/15/2010
Action: Conceptual Site Model

Global Id: T0603702072
Action Type: RESPONSE
Date: 02/24/2003
Action: Interim Remedial Action Plan

Global Id: T0603702072
Action Type: RESPONSE
Date: 04/15/2004
Action: Soil and Water Investigation Report

TOPANGA CAR WASH (Continued) **S101295732**

Global Id: T0603702072
Action Type: RESPONSE
Date: 01/15/2013
Action: Conceptual Site Model

Global Id: T0603702072
Action Type: RESPONSE
Date: 07/15/2011
Action: Conceptual Site Model

Global Id: T0603702072
Action Type: RESPONSE
Date: 01/15/2012
Action: Monitoring Report - Semi-Annually

Global Id: T0603702072
Action Type: RESPONSE
Date: 08/14/2012
Action: Corrective Action Plan / Remedial Action Plan - Addendum

Global Id: T0603702072
Action Type: RESPONSE
Date: 07/15/2007
Action: Monitoring Report - Quarterly

Global Id: T0603702072
Action Type: RESPONSE
Date: 04/15/2008
Action: Conceptual Site Model

Global Id: T0603702072
Action Type: RESPONSE
Date: 01/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603702072
Action Type: RESPONSE
Date: 01/15/2008
Action: Conceptual Site Model

Global Id: T0603702072
Action Type: ENFORCEMENT
Date: 07/14/2017
Action: Closure/No Further Action Letter

Global Id: T0603702072
Action Type: Other
Date: 09/11/1989
Action: Leak Discovery

Global Id: T0603702072
Action Type: RESPONSE
Date: 10/15/2004
Action: Soil and Water Investigation Report

Global Id: T0603702072
Action Type: ENFORCEMENT

TOPANGA CAR WASH (Continued) **S101295732**

Date: 08/10/2006
Action: Staff Letter

Global Id: T0603702072
Action Type: RESPONSE
Date: 07/15/2014
Action: Monitoring Report - Semi-Annually

Global Id: T0603702072
Action Type: ENFORCEMENT
Date: 04/18/2003
Action: Site Visit / Inspection / Sampling

Global Id: T0603702072
Action Type: RESPONSE
Date: 07/15/2007
Action: Soil and Water Investigation Report

Global Id: T0603702072
Action Type: RESPONSE
Date: 01/15/2007
Action: Soil and Water Investigation Report

Global Id: T0603702072
Action Type: RESPONSE
Date: 07/15/2008
Action: Remedial Progress Report

Global Id: T0603702072
Action Type: RESPONSE
Date: 10/15/2007
Action: Monitoring Report - Quarterly

Global Id: T0603702072
Action Type: RESPONSE
Date: 10/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0603702072
Action Type: RESPONSE
Date: 01/15/2003
Action: Soil and Water Investigation Report

Global Id: T0603702072
Action Type: RESPONSE
Date: 07/15/2003
Action: Soil and Water Investigation Report

Global Id: T0603702072
Action Type: ENFORCEMENT
Date: 12/14/2009
Action: Staff Letter

Global Id: T0603702072
Action Type: Other
Date: 06/13/1990
Action: Leak Reported

TOPANGA CAR WASH (Continued) **S101295732**

Global Id: T0603702072
Action Type: REMEDIATION
Date: 11/13/2006
Action: Soil Vapor Extraction (SVE)

Global Id: T0603702072
Action Type: RESPONSE
Date: 04/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603702072
Action Type: ENFORCEMENT
Date: 05/15/2009
Action: Site Visit / Inspection / Sampling

Global Id: T0603702072
Action Type: RESPONSE
Date: 12/16/2014
Action: Request for Closure - Regulator Responded

Global Id: T0603702072
Action Type: ENFORCEMENT
Date: 06/15/2009
Action: Staff Letter

Global Id: T0603702072
Action Type: RESPONSE
Date: 12/04/2012
Action: Soil Vapor Intrusion Investigation Workplan - Regulator Responded

Global Id: T0603702072
Action Type: RESPONSE
Date: 01/15/2012
Action: Conceptual Site Model

Global Id: T0603702072
Action Type: RESPONSE
Date: 11/23/2010
Action: CAP/RAP - Feasibility Study Report

Global Id: T0603702072
Action Type: RESPONSE
Date: 07/15/2004
Action: Soil and Water Investigation Report

Global Id: T0603702072
Action Type: REMEDIATION
Date: 10/01/2006
Action: Dual Phase Extraction

Global Id: T0603702072
Action Type: ENFORCEMENT
Date: 05/14/2014
Action: Staff Letter

Global Id: T0603702072
Action Type: RESPONSE

TOPANGA CAR WASH (Continued) **S101295732**

Date: 08/03/2007
Action: Soil and Water Investigation Workplan

Global Id: T0603702072
Action Type: RESPONSE
Date: 10/15/2007
Action: Conceptual Site Model

Global Id: T0603702072
Action Type: RESPONSE
Date: 07/15/2010
Action: Conceptual Site Model

Global Id: T0603702072
Action Type: RESPONSE
Date: 07/15/2010
Action: Monitoring Report - Semi-Annually

Global Id: T0603702072
Action Type: RESPONSE
Date: 10/08/2009
Action: Clean Up Fund - 5-Year Review Summary

Global Id: T0603702072
Action Type: RESPONSE
Date: 07/15/2005
Action: Soil and Water Investigation Report

Global Id: T0603702072
Action Type: RESPONSE
Date: 07/15/2009
Action: Monitoring Report - Semi-Annually

Global Id: T0603702072
Action Type: RESPONSE
Date: 01/15/2004
Action: Soil and Water Investigation Report

Global Id: T0603702072
Action Type: RESPONSE
Date: 04/15/2003
Action: Soil and Water Investigation Report

Global Id: T0603702072
Action Type: ENFORCEMENT
Date: 09/25/2003
Action: Site Visit / Inspection / Sampling

Global Id: T0603702072
Action Type: ENFORCEMENT
Date: 04/23/2003
Action: Staff Letter

Global Id: T0603702072
Action Type: ENFORCEMENT
Date: 11/24/2014
Action: Notification - Preclosure

TOPANGA CAR WASH (Continued) **S101295732**

Global Id: T0603702072
Action Type: RESPONSE
Date: 06/06/2017
Action: Well Destruction Report

Global Id: T0603702072
Action Type: RESPONSE
Date: 01/15/2005
Action: Monitoring Report - Quarterly

Global Id: T0603702072
Action Type: RESPONSE
Date: 01/15/2005
Action: Soil and Water Investigation Report

Global Id: T0603702072
Action Type: RESPONSE
Date: 04/15/2005
Action: Soil and Water Investigation Report

Global Id: T0603702072
Action Type: RESPONSE
Date: 04/15/2005
Action: Monitoring Report - Quarterly

Global Id: T0603702072
Action Type: RESPONSE
Date: 11/23/2010
Action: Well Installation Report

Global Id: T0603702072
Action Type: ENFORCEMENT
Date: 08/14/2007
Action: Staff Letter

Global Id: T0603702072
Action Type: RESPONSE
Date: 04/15/2007
Action: Monitoring Report - Quarterly

Global Id: T0603702072
Action Type: RESPONSE
Date: 10/15/2006
Action: Soil and Water Investigation Report

Global Id: T0603702072
Action Type: RESPONSE
Date: 04/15/2007
Action: Soil and Water Investigation Report

Global Id: T0603702072
Action Type: RESPONSE
Date: 05/20/2010
Action: Well Installation Workplan

LUST:
Global Id: T0603702072

TOPANGA CAR WASH (Continued) **S101295732**

Status: Completed - Case Closed
Status Date: 07/14/2017

Global Id: T0603702072
Status: Open - Case Begin Date
Status Date: 09/11/1989

Global Id: T0603702072
Status: Open - Eligible for Closure
Status Date: 11/01/2012

Global Id: T0603702072
Status: Open - Remediation
Status Date: 05/15/2007

Global Id: T0603702072
Status: Open - Remediation
Status Date: 05/20/2009

Global Id: T0603702072
Status: Open - Site Assessment
Status Date: 06/11/1990

Global Id: T0603702072
Status: Open - Site Assessment
Status Date: 08/03/2007

Global Id: T0603702072
Status: Open - Verification Monitoring
Status Date: 12/26/1996

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: 913030116
Status: Post remedial action monitoring
Substance: Gasoline
Substance Quantity: Not reported
Local Case No: Not reported
Case Type: Groundwater
Abatement Method Used at the Site: Not reported
Global ID: T0603702072
W Global ID: W0606501096
Staff: MB
Local Agency: 19050
Cross Street: VAN OWEN ST
Enforcement Type: SI
Date Leak Discovered: 9/11/1989
Date Leak First Reported: 6/13/1990
Date Leak Record Entered: 6/25/1990
Date Confirmation Began: Not reported
Date Leak Stopped: Not reported
Date Case Last Changed on Database: 2/8/2002
Date the Case was Closed: Not reported
How Leak Discovered: Tank Closure

TOPANGA CAR WASH (Continued) **S101295732**

How Leak Stopped:	Not reported
Cause of Leak:	UNK
Leak Source:	UNK
Operator:	Not reported
Water System:	HABONIM CAMP GILBOA
Well Name:	Not reported
Approx. Dist To Production Well (ft):	5993.073964826709015394204 2885
Source of Cleanup Funding:	UNK
Preliminary Site Assessment Workplan Submitted:	Not reported
Preliminary Site Assessment Began:	Not reported
Pollution Characterization Began:	6/11/1990
Remediation Plan Submitted:	Not reported
Remedial Action Underway:	Not reported
Post Remedial Action Monitoring Began:	12/26/1996
Enforcement Action Date:	8/11/1998
Historical Max MTBE Date:	3/26/2002
Hist Max MTBE Conc in Groundwater:	1100
Hist Max MTBE Conc in Soil:	Not reported
Significant Interim Remedial Action Taken:	No
GW Qualifier:	=
Soil Qualifier:	Not reported
Organization:	Not reported
Owner Contact:	Not reported
Responsible Party:	MEL/HOWARD ADER
RP Address:	6279 VARIEL AVE.
Program:	LUST
Lat/Long:	34.1943807 / -1
Local Agency Staff:	PEJ
Beneficial Use:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Suspended:	Not reported
Assigned Name:	3301096-001GEN
Summary:	4/15/99 FREE PRODUCT RECOVERY RPT AND GW MON RPT DEC 1998; 3/15/00 HEALTH & SAFETY PLAN FOR A SITE INVESTIGATION; 7/25/00 2ND QTR GW MON RPT

B10 **TOPANGA CAR WASH HOWARD ADER** **CA SWEEPS UST** **S101583088**
SW **6829 TOPANGA CANYON BLVD** **CA FID UST** **N/A**
< 1/8 **CANOGA PARK, CA 91303**
0.026 mi.
137 ft. **Site 6 of 22 in cluster B**

Relative: **Higher**

Actual: **798 ft.**

SWEEPS UST:

Status:	Active
Comp Number:	4530
Number:	1
Board Of Equalization:	Not reported
Referral Date:	04-20-88
Action Date:	05-03-94
Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	Not reported
Tank Status:	Not reported
Capacity:	Not reported
Active Date:	Not reported
Tank Use:	Not reported
STG:	Not reported

TOPANGA CAR WASH HOWARD ADER (Continued) **S101583088**

Content: Not reported
Number Of Tanks: Not reported

CA FID UST:
Facility ID: 19002589
Regulated By: UTNKI
Regulated ID: Not reported
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 2130000000
Mail To: Not reported
Mailing Address: 6829 TOPANGA CANYON BLVD
Mailing Address 2: Not reported
Mailing City,St,Zip: CANOGA PARK 913030000
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Inactive

C11 **THRIFTY #141 (FORMER)** **CA HIST CORTESE** **S105023052**
WSW **6851 TOPANGA CNYN** **N/A**
< 1/8 **CANOGA PARK, CA 91303**
0.026 mi.
139 ft. **Site 1 of 5 in cluster C**

Relative: Higher
Actual: 798 ft.

HIST CORTESE:
Region: CORTESE
Facility County Code: 19
Reg By: LTNKA
Reg Id: 913030616

C12 **THRIFTY OIL STATION #141** **CA SWEEPS UST** **S101583067**
WSW **6851 TOPANGA CANYON BLVD** **CA FID UST** **N/A**
< 1/8 **CANOGA PARK, CA 91303** **CA HAZNET**
0.026 mi.
139 ft. **Site 2 of 5 in cluster C**

Relative: Higher
Actual: 798 ft.

SWEEPS UST:
Status: Not reported
Comp Number: 637
Number: Not reported
Board Of Equalization: 44-010930
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 19-050-000637-000001
Tank Status: Not reported
Capacity: 6000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: REG UNLEADED

THRIFTY OIL STATION #141 (Continued) **S101583067**

Number Of Tanks: 4

Status: Not reported
Comp Number: 637
Number: Not reported
Board Of Equalization: 44-010930
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 19-050-000637-000002
Tank Status: Not reported
Capacity: 12000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 637
Number: Not reported
Board Of Equalization: 44-010930
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 19-050-000637-000003
Tank Status: Not reported
Capacity: 10000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 637
Number: Not reported
Board Of Equalization: 44-010930
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 19-050-000637-000004
Tank Status: Not reported
Capacity: 6000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: REG UNLEADED
Number Of Tanks: Not reported

CA FID UST:
Facility ID: 19002488
Regulated By: UTNKI
Regulated ID: 00005518

THRIFTY OIL STATION #141 (Continued) **S101583067**

Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 2139239876
Mail To: Not reported
Mailing Address: 10000 LAKEWOOD BLVD
Mailing Address 2: Not reported
Mailing City,St,Zip: CANOGA PARK 913030000
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Inactive

HAZNET:
envid: S101583067
Year: 2017
GEPAID: CAL000372617
Contact: CAROL F. DOE
Telephone: 2165661710
Mailing Name: Not reported
Mailing Address: 101 W PROSPECT AVE
Mailing City,St,Zip: CLEVELAND, OH 441151027
Gen County: Los Angeles
TSD EPA ID: CAD008364432
TSD County: Los Angeles
Waste Category: Latex waste
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.4155
Cat Decode: Latex waste
Method Decode: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County: Los Angeles

envid: S101583067
Year: 2017
GEPAID: CAL000372617
Contact: CAROL F. DOE
Telephone: 2165661710
Mailing Name: Not reported
Mailing Address: 101 W PROSPECT AVE
Mailing City,St,Zip: CLEVELAND, OH 441151027
Gen County: Los Angeles
TSD EPA ID: CAD008364432
TSD County: Los Angeles
Waste Category: Latex waste
Disposal Method: Fuel Blending Prior To Energy Recovery At Another Site
Tons: 0.0525
Cat Decode: Latex waste
Method Decode: Fuel Blending Prior To Energy Recovery At Another Site
Facility County: Los Angeles

envid: S101583067
Year: 2017
GEPAID: CAL000372617

THRIFTY OIL STATION #141 (Continued) **S101583067**

Contact:	CAROL F. DOE
Telephone:	2165661710
Mailing Name:	Not reported
Mailing Address:	101 W PROSPECT AVE
Mailing City,St,Zip:	CLEVELAND, OH 441151027
Gen County:	Los Angeles
TSD EPA ID:	CAD008364432
TSD County:	Los Angeles
Waste Category:	Unspecified solvent mixture
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.0445
Cat Decode:	Unspecified solvent mixture
Method Decode:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	Los Angeles

envid:	S101583067
Year:	2016
GEPAID:	CAL000372617
Contact:	BECKY LEONE
Telephone:	5102747547
Mailing Name:	Not reported
Mailing Address:	101 W PROSPECT AVE
Mailing City,St,Zip:	CLEVELAND, OH 441151027
Gen County:	Los Angeles
TSD EPA ID:	CAD008364432
TSD County:	Los Angeles
Waste Category:	Unspecified solvent mixture
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.0665
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

envid:	S101583067
Year:	2016
GEPAID:	CAL000372617
Contact:	BECKY LEONE
Telephone:	5102747547
Mailing Name:	Not reported
Mailing Address:	101 W PROSPECT AVE
Mailing City,St,Zip:	CLEVELAND, OH 441151027
Gen County:	Los Angeles
TSD EPA ID:	CAD008364432
TSD County:	Los Angeles
Waste Category:	Latex waste
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.5305
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

THRIFTY OIL STATION #141 (Continued) **S101583067**

Click this hyperlink while viewing on your computer to access
13 additional CA_HAZNET: record(s) in the EDR Site Report.

C13 **THRIFTY #141 (FORMER)** **CA LUST** **U001567113**
WSW **6851 TOPANGA CANYON BLVD** **CA HIST UST** **N/A**
< 1/8 **LOS ANGELES, CA 91303**
0.026 mi.
139 ft. **Site 3 of 5 in cluster C**

Relative:
Higher

Actual:
798 ft.

LUST:

Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0603702074
Global Id:	T0603702074
Latitude:	34.1947667
Longitude:	-118.6059843
Status:	Completed - Case Closed
Status Date:	02/17/2010
Case Worker:	MB
RB Case Number:	913030616
Local Agency:	LOS ANGELES, CITY OF
File Location:	Regional Board
Local Case Number:	Not reported
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

LUST:

Global Id:	T0603702074
Contact Type:	Local Agency Caseworker
Contact Name:	ELOY LUNA
Organization Name:	LOS ANGELES, CITY OF
Address:	200 North Main Street, Suite 1780
City:	LOS ANGELES
Email:	eloy.luna@lacity.org
Phone Number:	Not reported

Global Id:	T0603702074
Contact Type:	Regional Board Caseworker
Contact Name:	MAGDY BAIADY
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	320 W. 4TH ST., SUITE 200
City:	LOS ANGELES
Email:	mbaiady@waterboards.ca.gov
Phone Number:	2135766699

LUST:

Global Id:	T0603702074
Action Type:	ENFORCEMENT
Date:	04/17/2008
Action:	Staff Letter

Global Id:	T0603702074
Action Type:	RESPONSE
Date:	04/15/2007
Action:	Monitoring Report - Quarterly

Global Id:	T0603702074

THRIFTY #141 (FORMER) (Continued) **U001567113**

Action Type: RESPONSE
Date: 01/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603702074
Action Type: REMEDIATION
Date: 04/01/2006
Action: Excavation

Global Id: T0603702074
Action Type: RESPONSE
Date: 01/15/2007
Action: Monitoring Report - Quarterly

Global Id: T0603702074
Action Type: RESPONSE
Date: 01/15/2003
Action: Monitoring Report - Quarterly

Global Id: T0603702074
Action Type: RESPONSE
Date: 10/15/2002
Action: Monitoring Report - Quarterly

Global Id: T0603702074
Action Type: RESPONSE
Date: 05/12/2003
Action: Soil and Water Investigation Report

Global Id: T0603702074
Action Type: RESPONSE
Date: 01/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0603702074
Action Type: RESPONSE
Date: 04/15/2003
Action: Monitoring Report - Quarterly

Global Id: T0603702074
Action Type: ENFORCEMENT
Date: 04/18/2003
Action: Site Visit / Inspection / Sampling

Global Id: T0603702074
Action Type: RESPONSE
Date: 07/15/2006
Action: Monitoring Report - Quarterly

Global Id: T0603702074
Action Type: RESPONSE
Date: 01/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603702074
Action Type: RESPONSE
Date: 10/15/2007

THRIFTY #141 (FORMER) (Continued) **U001567113**

Action:	Monitoring Report - Quarterly
Global Id:	T0603702074
Action Type:	RESPONSE
Date:	09/21/2005
Action:	CAP/RAP - Feasibility Study Report
Global Id:	T0603702074
Action Type:	RESPONSE
Date:	04/09/2007
Action:	Interim Remedial Action Report
Global Id:	T0603702074
Action Type:	RESPONSE
Date:	07/15/2007
Action:	Monitoring Report - Quarterly
Global Id:	T0603702074
Action Type:	ENFORCEMENT
Date:	02/06/2001
Action:	Staff Letter
Global Id:	T0603702074
Action Type:	RESPONSE
Date:	04/15/2009
Action:	Monitoring Report - Quarterly
Global Id:	T0603702074
Action Type:	RESPONSE
Date:	07/03/2007
Action:	Interim Remedial Action Plan
Global Id:	T0603702074
Action Type:	RESPONSE
Date:	01/15/2006
Action:	Monitoring Report - Quarterly
Global Id:	T0603702074
Action Type:	RESPONSE
Date:	07/03/2007
Action:	Other Report / Document
Global Id:	T0603702074
Action Type:	RESPONSE
Date:	01/15/2005
Action:	Monitoring Report - Quarterly
Global Id:	T0603702074
Action Type:	RESPONSE
Date:	10/01/2008
Action:	Interim Remedial Action Plan
Global Id:	T0603702074
Action Type:	RESPONSE
Date:	10/15/2008
Action:	Other Report / Document

THRIFTY #141 (FORMER) (Continued) **U001567113**

Global Id: T0603702074
Action Type: RESPONSE
Date: 02/14/2008
Action: Corrective Action Plan / Remedial Action Plan

Global Id: T0603702074
Action Type: RESPONSE
Date: 06/15/2008
Action: Remedial Progress Report

Global Id: T0603702074
Action Type: RESPONSE
Date: 04/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603702074
Action Type: RESPONSE
Date: 07/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0603702074
Action Type: ENFORCEMENT
Date: 01/12/2010
Action: Notification - Preclosure

Global Id: T0603702074
Action Type: Other
Date: 05/15/1990
Action: Leak Reported

Global Id: T0603702074
Action Type: RESPONSE
Date: 04/15/2006
Action: Monitoring Report - Quarterly

Global Id: T0603702074
Action Type: RESPONSE
Date: 10/15/2006
Action: Monitoring Report - Quarterly

Global Id: T0603702074
Action Type: ENFORCEMENT
Date: 06/15/2009
Action: Staff Letter

Global Id: T0603702074
Action Type: RESPONSE
Date: 07/15/2005
Action: Monitoring Report - Quarterly

Global Id: T0603702074
Action Type: REMEDIATION
Date: 01/04/2006
Action: Excavation

Global Id: T0603702074
Action Type: REMEDIATION

THRIFTY #141 (FORMER) (Continued) **U001567113**

Date: 01/04/1990
Action: Excavation

Global Id: T0603702074
Action Type: RESPONSE
Date: 10/15/2003
Action: Monitoring Report - Quarterly

Global Id: T0603702074
Action Type: RESPONSE
Date: 04/15/2005
Action: Monitoring Report - Quarterly

Global Id: T0603702074
Action Type: RESPONSE
Date: 04/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0603702074
Action Type: RESPONSE
Date: 10/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0603702074
Action Type: ENFORCEMENT
Date: 02/17/2010
Action: Closure/No Further Action Letter

Global Id: T0603702074
Action Type: RESPONSE
Date: 10/15/2005
Action: Monitoring Report - Quarterly

Global Id: T0603702074
Action Type: RESPONSE
Date: 07/15/2003
Action: Monitoring Report - Quarterly

Global Id: T0603702074
Action Type: ENFORCEMENT
Date: 09/25/2003
Action: Site Visit / Inspection / Sampling

Global Id: T0603702074
Action Type: RESPONSE
Date: 12/17/2009
Action: Request for Closure

Global Id: T0603702074
Action Type: RESPONSE
Date: 07/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603702074
Action Type: RESPONSE
Date: 07/15/2009
Action: Monitoring Report - Quarterly

THRIFTY #141 (FORMER) (Continued) **U001567113**

LUST:

Global Id:	T0603702074
Status:	Completed - Case Closed
Status Date:	02/17/2010
Global Id:	T0603702074
Status:	Open - Case Begin Date
Status Date:	05/15/1990
Global Id:	T0603702074
Status:	Open - Remediation
Status Date:	08/24/1990
Global Id:	T0603702074
Status:	Open - Remediation
Status Date:	02/14/2008
Global Id:	T0603702074
Status:	Open - Site Assessment
Status Date:	01/28/1991
Global Id:	T0603702074
Status:	Open - Site Assessment
Status Date:	07/18/2000
Global Id:	T0603702074
Status:	Open - Verification Monitoring
Status Date:	12/26/1996

HIST UST:

File Number:	00028C9E
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00028C9E.pdf
Region:	STATE
Facility ID:	00000005518
Facility Type:	Gas Station
Other Type:	Not reported
Contact Name:	Not reported
Telephone:	2139239876
Owner Name:	THRIFTY OIL CO.
Owner Address:	10000 LAKEWOOD BLVD.
Owner City,St,Zip:	DOWNEY, CA 90240
Total Tanks:	0004
Tank Num:	001
Container Num:	1418
Year Installed:	Not reported
Tank Capacity:	00006000
Tank Used for:	PRODUCT
Type of Fuel:	PREMIUM
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor
Tank Num:	002
Container Num:	1411
Year Installed:	1974

THRIFTY #141 (FORMER) (Continued) **U001567113**

Tank Capacity:	00012000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor

Tank Num:	003
Container Num:	1412
Year Installed:	Not reported
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor

Tank Num:	004
Container Num:	1413
Year Installed:	Not reported
Tank Capacity:	00006000
Tank Used for:	PRODUCT
Type of Fuel:	PREMIUM
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor

Click here for Geo Tracker PDF:

C14 **THRIFTY #141 (FORMER)** **CA LUST** **S102438969**
WSW **6851 TOPANGA CANYON BLVD** **N/A**
< 1/8 **LOS ANGELES, CA 91303**
0.026 mi.
139 ft. **Site 4 of 5 in cluster C**

Relative: **Higher**

Actual: **798 ft.**

LUST REG 4:

Region:	4	
Regional Board:	04	
County:	Los Angeles	
Facility Id:	913030616	
Status:	Preliminary site assessment underway	
Substance:	Gasoline	
Substance Quantity:	Not reported	
Local Case No:	Not reported	
Case Type:	Groundwater	
Abatement Method Used at the Site:		ETVE
Global ID:	T0603702074	
W Global ID:	W0606501096	
Staff:	MB	
Local Agency:	19050	
Cross Street:	BASSETT STREET	
Enforcement Type:	SI	
Date Leak Discovered:	Not reported	
Date Leak First Reported:		5/15/1990
Date Leak Record Entered:	5/16/1990	
Date Confirmation Began:	Not reported	
Date Leak Stopped:	Not reported	
Date Case Last Changed on Database:		10/8/2002
Date the Case was Closed:		Not reported
How Leak Discovered:	Not reported	
How Leak Stopped:	Not reported	

THRIFTY #141 (FORMER) (Continued) **S102438969**

Cause of Leak:	UNK
Leak Source:	Tank
Operator:	Not reported
Water System:	HABONIM CAMP GILBOA
Well Name:	Not reported
Approx. Dist To Production Well (ft):	6128.4957920191420481073652423
Source of Cleanup Funding:	Tank
Preliminary Site Assessment Workplan Submitted:	Not reported
Preliminary Site Assessment Began:	7/18/2000
Pollution Characterization Began:	1/28/1991
Remediation Plan Submitted:	Not reported
Remedial Action Underway:	8/24/1990
Post Remedial Action Monitoring Began:	12/26/1996
Enforcement Action Date:	7/28/1998
Historical Max MTBE Date:	12/2/2002
Hist Max MTBE Conc in Groundwater:	2.9
Hist Max MTBE Conc in Soil:	0
Significant Interim Remedial Action Taken:	Yes
GW Qualifier:	=
Soil Qualifier:	ND
Organization:	Not reported
Owner Contact:	Not reported
Responsible Party:	CHRIS PANAITESCU
RP Address:	10000 LAKEVIEW BLVD.
Program:	LUST
Lat/Long:	34.1947667 / -1
Local Agency Staff:	PEJ
Beneficial Use:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Suspended:	Not reported
Assigned Name:	3301096-001GEN
Summary:	4/13/00 1ST QTR GW MON RPT 2000; 5/30/00 MON WELL ABANDONMENT RPT; 7/6/00 2ND QTR MON RPT 2000; 9/29/00 3RD QTR GW MON RPT 2000; 4/9/01 1ST QTR STATUS RPT 2001

C15 **THRIFTY OIL CO INC** **EDR Hist Auto** **1022137244**
WSW **6851 TOPANGA CANYON BLVD** **N/A**
< 1/8 **CANOGA PARK, CA 91303**
0.026 mi.
139 ft. **Site 5 of 5 in cluster C**

Relative: EDR Hist Auto
Higher

Actual:
798 ft.

Year:	Name:	Type:
1974	THRIFTY OIL CO INC	Gasoline Service Stations
1975	THRIFTY OIL CO INC	Gasoline Service Stations
1976	THRIFTY OIL CO INC	Gasoline Service Stations
1977	THRIFTY OIL CO INC	Gasoline Service Stations

B16
SW
< 1/8
0.031 mi.
166 ft.

SHELL OIL PRODUCTS US
22001 VANOWEN ST
CANOGA PARK, CA 91303

Site 7 of 22 in cluster B

CA SWEEPS UST **S101582830**
CA FID UST **N/A**
CA EMI

Relative:
Higher

Actual:
799 ft.

SWEEPS UST:

Status:	Active
Comp Number:	23
Number:	9
Board Of Equalization:	44-000074
Referral Date:	07-08-93
Action Date:	03-10-94
Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-050-000023-000001
Tank Status:	A
Capacity:	10000
Active Date:	04-20-88
Tank Use:	M.V. FUEL
STG:	P
Content:	REG UNLEADED
Number Of Tanks:	3

Status:	Active
Comp Number:	23
Number:	9
Board Of Equalization:	44-000074
Referral Date:	07-08-93
Action Date:	03-10-94
Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-050-000023-000002
Tank Status:	A
Capacity:	10000
Active Date:	04-20-88
Tank Use:	M.V. FUEL
STG:	P
Content:	REG UNLEADED
Number Of Tanks:	Not reported

Status:	Active
Comp Number:	23
Number:	9
Board Of Equalization:	44-000074
Referral Date:	07-08-93
Action Date:	03-10-94
Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-050-000023-000003
Tank Status:	A
Capacity:	10000
Active Date:	04-20-88
Tank Use:	M.V. FUEL
STG:	P
Content:	REG UNLEADED
Number Of Tanks:	Not reported

SHELL OIL PRODUCTS US (Continued) **S101582830**

CA FID UST:
Facility ID: 19001593
Regulated By: UTNKA
Regulated ID: 00000465
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 8187020338
Mail To: Not reported
Mailing Address: P O BOX
Mailing Address 2: Not reported
Mailing City,St,Zip: CANOGA PARK 913030000
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

EMI:
Year: 2006
County Code: 19
Air Basin: SC
Facility ID: 141223
Air District Name: SC
SIC Code: 8711
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: .3658956901717529485
Reactive Organic Gases Tons/Yr: .067
Carbon Monoxide Emissions Tons/Yr: .291
NOX - Oxides of Nitrogen Tons/Yr: 1.082
SOX - Oxides of Sulphur Tons/Yr: .005
Particulate Matter Tons/Yr: .062
Part. Matter 10 Micrometers and Smllr Tons/Yr: .062

Year: 2007
County Code: 19
Air Basin: SC
Facility ID: 141223
Air District Name: SC
SIC Code: 8711
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: .3658956901717529485
Reactive Organic Gases Tons/Yr: .067
Carbon Monoxide Emissions Tons/Yr: .291
NOX - Oxides of Nitrogen Tons/Yr: 1.082
SOX - Oxides of Sulphur Tons/Yr: .005
Particulate Matter Tons/Yr: .062
Part. Matter 10 Micrometers and Smllr Tons/Yr: .062

B17 **SHELL SERVICE STATION** **EDR Hist Auto** **1020425503**
SW **22001 VAN OWEN** **N/A**
< 1/8 **CANOGA PARK, CA 91303**
0.031 mi.
166 ft. **Site 8 of 22 in cluster B**

Relative: EDR Hist Auto
Higher

Actual:
799 ft.

Year:	Name:	Type:
1989	SHELL SERVICE STATION	Gasoline Service Stations
1989	TOPANGA PLAZA SHELL/BALBO	Gasoline Service Stations
1990	SHELL SERVICE STATION	Gasoline Service Stations
1991	TOPANGA & VANOWEN SHELL	Gasoline Service Stations
1991	SHELL SERVICE STATION	Gasoline Service Stations
1992	SHELL SERVICE STATION	Gasoline Service Stations
1992	TOPANGA & VANOWEN SHELL	Gasoline Service Stations
1993	TOPANGA & VANOWEN SHELL	Gasoline Service Stations
1993	SHELL SERVICE STATION	Gasoline Service Stations
1994	TOPANGA & VANOWEN SHELL	Gasoline Service Stations
1995	TOP GAS INC	Gasoline Service Stations
1996	TOP GAS INC	Gasoline Service Stations
1997	TOP GAS INC	Gasoline Service Stations
1998	TOP GAS INC	Gasoline Service Stations
1999	K R SHELL	Gasoline Service Stations
2000	K R SHELL	Gasoline Service Stations
2001	K R SHELL	Gasoline Service Stations
2008	K R SHELL	Gasoline Service Stations
2009	K R SHELL	Gasoline Service Stations
2010	K R SHELL	Gasoline Service Stations
2011	K R SHELL	Gasoline Service Stations
2012	K R SHELL	Gasoline Service Stations
2012	KENK INC	Gasoline Service Stations
2013	K R SHELL	Gasoline Service Stations
2013	KENK INC	Gasoline Service Stations
2014	KENK INC	Gasoline Service Stations
2014	K R SHELL	Gasoline Service Stations

B18 **SHELL #204-1242-0604** **CA LUST** **S103066087**
SW **22001 VANOWEN** **CA HIST CORTESE** **N/A**
< 1/8 **CANOGA PARK, CA 91303**
0.031 mi.
166 ft. **Site 9 of 22 in cluster B**

Relative: LUST:
Higher

Actual:
799 ft.

Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0603702075
Global Id:	T0603702075
Latitude:	34.1939657
Longitude:	-118.6058922
Status:	Completed - Case Closed
Status Date:	01/15/2013
Case Worker:	MB
RB Case Number:	913030689
Local Agency:	LOS ANGELES, CITY OF
File Location:	Regional Board
Local Case Number:	Not reported
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

SHELL #204-1242-0604 (Continued) **S103066087**

LUST:

Global Id:	T0603702075
Contact Type:	Local Agency Caseworker
Contact Name:	ELOY LUNA
Organization Name:	LOS ANGELES, CITY OF
Address:	200 North Main Street, Suite 1780
City:	LOS ANGELES
Email:	eloy.luna@lacity.org
Phone Number:	Not reported

Global Id:	T0603702075
Contact Type:	Regional Board Caseworker
Contact Name:	MAGDY BAIADY
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	320 W. 4TH ST., SUITE 200
City:	LOS ANGELES
Email:	mbaiady@waterboards.ca.gov
Phone Number:	2135766699

LUST:

Global Id:	T0603702075
Action Type:	RESPONSE
Date:	10/15/2006
Action:	Monitoring Report - Quarterly

Global Id:	T0603702075
Action Type:	ENFORCEMENT
Date:	01/15/2013
Action:	Closure/No Further Action Letter

Global Id:	T0603702075
Action Type:	ENFORCEMENT
Date:	11/15/2012
Action:	Notification - Preclosure

Global Id:	T0603702075
Action Type:	RESPONSE
Date:	01/15/2007
Action:	Monitoring Report - Quarterly

Global Id:	T0603702075
Action Type:	RESPONSE
Date:	04/15/2006
Action:	Soil and Water Investigation Report

Global Id:	T0603702075
Action Type:	RESPONSE
Date:	10/15/2005
Action:	Monitoring Report - Quarterly

Global Id:	T0603702075
Action Type:	RESPONSE
Date:	10/15/2005
Action:	Soil and Water Investigation Report

Global Id: T0603702075

SHELL #204-1242-0604 (Continued) **S103066087**

Action Type:	RESPONSE
Date:	04/15/2006
Action:	Monitoring Report - Quarterly
Global Id:	T0603702075
Action Type:	RESPONSE
Date:	01/15/2006
Action:	Monitoring Report - Quarterly
Global Id:	T0603702075
Action Type:	RESPONSE
Date:	01/15/2006
Action:	Soil and Water Investigation Report
Global Id:	T0603702075
Action Type:	RESPONSE
Date:	01/15/2012
Action:	Monitoring Report - Quarterly
Global Id:	T0603702075
Action Type:	RESPONSE
Date:	04/15/2009
Action:	Monitoring Report - Quarterly
Global Id:	T0603702075
Action Type:	RESPONSE
Date:	10/15/2002
Action:	Interim Remedial Action Report
Global Id:	T0603702075
Action Type:	RESPONSE
Date:	01/15/2003
Action:	Final Remedial Action Report / Corrective Action Report
Global Id:	T0603702075
Action Type:	RESPONSE
Date:	07/15/2003
Action:	Soil and Water Investigation Report
Global Id:	T0603702075
Action Type:	RESPONSE
Date:	01/15/2003
Action:	Soil and Water Investigation Report
Global Id:	T0603702075
Action Type:	RESPONSE
Date:	07/24/2012
Action:	Clean Up Fund - 5-Year Review Summary
Global Id:	T0603702075
Action Type:	ENFORCEMENT
Date:	04/18/2003
Action:	Site Visit / Inspection / Sampling
Global Id:	T0603702075
Action Type:	RESPONSE
Date:	01/15/2008

SHELL #204-1242-0604 (Continued) **S103066087**

Action: Monitoring Report - Quarterly

Global Id: T0603702075
Action Type: RESPONSE
Date: 10/15/2007
Action: Monitoring Report - Quarterly

Global Id: T0603702075
Action Type: RESPONSE
Date: 07/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603702075
Action Type: RESPONSE
Date: 04/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603702075
Action Type: RESPONSE
Date: 10/15/2012
Action: Request for Closure

Global Id: T0603702075
Action Type: RESPONSE
Date: 03/15/2013
Action: Well Destruction Report

Global Id: T0603702075
Action Type: RESPONSE
Date: 04/15/2004
Action: Soil and Water Investigation Report

Global Id: T0603702075
Action Type: RESPONSE
Date: 07/15/2012
Action: Monitoring Report - Quarterly

Global Id: T0603702075
Action Type: RESPONSE
Date: 01/15/2010
Action: Monitoring Report - Semi-Annually

Global Id: T0603702075
Action Type: ENFORCEMENT
Date: 06/15/2009
Action: Staff Letter

Global Id: T0603702075
Action Type: ENFORCEMENT
Date: 05/28/2010
Action: Site Visit / Inspection / Sampling

Global Id: T0603702075
Action Type: RESPONSE
Date: 02/01/2008
Action: Soil and Water Investigation Workplan

SHELL #204-1242-0604 (Continued) **S103066087**

Global Id: T0603702075
Action Type: RESPONSE
Date: 04/15/2007
Action: Monitoring Report - Quarterly

Global Id: T0603702075
Action Type: RESPONSE
Date: 07/15/2009
Action: Monitoring Report - Semi-Annually

Global Id: T0603702075
Action Type: RESPONSE
Date: 07/15/2010
Action: Conceptual Site Model

Global Id: T0603702075
Action Type: ENFORCEMENT
Date: 06/17/2002
Action: Staff Letter

Global Id: T0603702075
Action Type: REMEDIATION
Date: 11/16/2005
Action: Soil Vapor Extraction (SVE)

Global Id: T0603702075
Action Type: REMEDIATION
Date: 03/01/1992
Action: Excavation

Global Id: T0603702075
Action Type: RESPONSE
Date: 07/15/2005
Action: Monitoring Report - Quarterly

Global Id: T0603702075
Action Type: RESPONSE
Date: 07/15/2005
Action: Soil and Water Investigation Report

Global Id: T0603702075
Action Type: RESPONSE
Date: 07/15/2005
Action: Soil and Water Investigation Report

Global Id: T0603702075
Action Type: ENFORCEMENT
Date: 02/06/2004
Action: Notice to Comply

Global Id: T0603702075
Action Type: RESPONSE
Date: 10/15/2003
Action: Soil and Water Investigation Report

Global Id: T0603702075
Action Type: RESPONSE

SHELL #204-1242-0604 (Continued) **S103066087**

Date: 10/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603702075
Action Type: RESPONSE
Date: 07/16/2003
Action: Soil and Water Investigation Report

Global Id: T0603702075
Action Type: RESPONSE
Date: 10/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0603702075
Action Type: RESPONSE
Date: 07/15/2002
Action: Other Report / Document

Global Id: T0603702075
Action Type: Other
Date: 10/29/1987
Action: Leak Reported

Global Id: T0603702075
Action Type: RESPONSE
Date: 07/15/2006
Action: Monitoring Report - Quarterly

Global Id: T0603702075
Action Type: RESPONSE
Date: 07/15/2006
Action: Soil and Water Investigation Report

Global Id: T0603702075
Action Type: REMEDIATION
Date: 11/16/2005
Action: In Situ Physical/Chemical Treatment (other than SVE)

Global Id: T0603702075
Action Type: RESPONSE
Date: 07/15/2011
Action: Monitoring Report - Semi-Annually

Global Id: T0603702075
Action Type: RESPONSE
Date: 10/15/2011
Action: Monitoring Report - Quarterly

Global Id: T0603702075
Action Type: RESPONSE
Date: 08/08/2011
Action: Clean Up Fund - 5-Year Review Summary

Global Id: T0603702075
Action Type: RESPONSE
Date: 07/25/2011
Action: Clean Up Fund - 5-Year Review Summary

SHELL #204-1242-0604 (Continued) **S103066087**

Global Id: T0603702075
Action Type: RESPONSE
Date: 01/15/2009
Action: Monitoring Report - Quarterly

Global Id: T0603702075
Action Type: RESPONSE
Date: 10/15/2009
Action: Monitoring Report - Semi-Annually

Global Id: T0603702075
Action Type: RESPONSE
Date: 10/15/2012
Action: Monitoring Report - Quarterly

Global Id: T0603702075
Action Type: ENFORCEMENT
Date: 04/17/2003
Action: Staff Letter

Global Id: T0603702075
Action Type: RESPONSE
Date: 01/15/2011
Action: Conceptual Site Model

Global Id: T0603702075
Action Type: RESPONSE
Date: 04/15/2005
Action: Monitoring Report - Quarterly

Global Id: T0603702075
Action Type: RESPONSE
Date: 04/15/2005
Action: Soil and Water Investigation Report

Global Id: T0603702075
Action Type: RESPONSE
Date: 04/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0603702075
Action Type: ENFORCEMENT
Date: 08/20/2004
Action: Site Visit / Inspection / Sampling

Global Id: T0603702075
Action Type: RESPONSE
Date: 10/08/2009
Action: Clean Up Fund - 5-Year Review Summary

Global Id: T0603702075
Action Type: RESPONSE
Date: 01/15/2005
Action: Monitoring Report - Quarterly

Global Id: T0603702075
Action Type: RESPONSE

SHELL #204-1242-0604 (Continued) **S103066087**

Date: 01/15/2005
Action: Soil and Water Investigation Report

Global Id: T0603702075
Action Type: RESPONSE
Date: 07/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0603702075
Action Type: RESPONSE
Date: 07/15/2004
Action: Soil and Water Investigation Report

Global Id: T0603702075
Action Type: RESPONSE
Date: 10/15/2004
Action: Soil and Water Investigation Report

Global Id: T0603702075
Action Type: RESPONSE
Date: 07/15/2010
Action: Monitoring Report - Semi-Annually

Global Id: T0603702075
Action Type: RESPONSE
Date: 10/15/2010
Action: Conceptual Site Model

Global Id: T0603702075
Action Type: RESPONSE
Date: 10/15/2010
Action: Monitoring Report - Semi-Annually

Global Id: T0603702075
Action Type: ENFORCEMENT
Date: 05/04/2005
Action: Staff Letter

Global Id: T0603702075
Action Type: RESPONSE
Date: 10/15/2002
Action: Soil and Water Investigation Workplan

Global Id: T0603702075
Action Type: RESPONSE
Date: 01/15/2004
Action: Soil and Water Investigation Report

Global Id: T0603702075
Action Type: RESPONSE
Date: 01/15/2011
Action: Monitoring Report - Semi-Annually

Global Id: T0603702075
Action Type: RESPONSE
Date: 07/24/2012
Action: Clean Up Fund - 5-Year Review Summary

SHELL #204-1242-0604 (Continued) **S103066087**

Global Id: T0603702075
Action Type: ENFORCEMENT
Date: 10/02/2008
Action: Clean Up Fund - Case Closure Review Summary Report (RSR)

Global Id: T0603702075
Action Type: RESPONSE
Date: 04/15/2012
Action: Monitoring Report - Quarterly

Global Id: T0603702075
Action Type: RESPONSE
Date: 04/15/2010
Action: Monitoring Report - Semi-Annually

LUST:
Global Id: T0603702075
Status: Completed - Case Closed
Status Date: 01/15/2013

Global Id: T0603702075
Status: Open - Case Begin Date
Status Date: 10/29/1987

Global Id: T0603702075
Status: Open - Eligible for Closure
Status Date: 12/04/2012

Global Id: T0603702075
Status: Open - Remediation
Status Date: 04/17/2003

Global Id: T0603702075
Status: Open - Site Assessment
Status Date: 07/08/1991

Global Id: T0603702075
Status: Open - Site Assessment
Status Date: 08/28/1996

HIST CORTESE:
Region: CORTESE
Facility County Code: 19
Reg By: LTNKA
Reg Id: 913030689

B19
SW
< 1/8
0.031 mi.
166 ft.

SHELL #204-1242-0604
22001 VANOWEN ST
LOS ANGELES, CA 91303

Site 10 of 22 in cluster B

CA LUST **S102436980**
N/A

Relative:
Higher

Actual:
799 ft.

LUST REG 4:

Region:	4	
Regional Board:	04	
County:	Los Angeles	
Facility Id:	913030689	
Status:	Preliminary site assessment underway	
Substance:	Gasoline	
Substance Quantity:	Not reported	
Local Case No:	Not reported	
Case Type:	Groundwater	
Abatement Method Used at the Site:		EDFP
Global ID:	T0603702075	
W Global ID:	W0606501096	
Staff:	MB	
Local Agency:	19050	
Cross Street:	TOPANGA CANYON	
Enforcement Type:	NTC	
Date Leak Discovered:	Not reported	
Date Leak First Reported:		10/29/1987
Date Leak Record Entered:	3/31/1988	
Date Confirmation Began:	Not reported	
Date Leak Stopped:	Not reported	
Date Case Last Changed on Database:		7/15/2002
Date the Case was Closed:		Not reported
How Leak Discovered:	Not reported	
How Leak Stopped:	Not reported	
Cause of Leak:	Not reported	
Leak Source:	Not reported	
Operator:	Not reported	
Water System:	HABONIM CAMP GILBOA	
Well Name:	Not reported	
Approx. Dist To Production Well (ft):		5855.1494219821019304818226337
Source of Cleanup Funding:		Not reported
Preliminary Site Assessment Workplan Submitted:		Not reported
Preliminary Site Assessment Began:		8/28/1996
Pollution Characterization Began:		7/8/1991
Remediation Plan Submitted:		Not reported
Remedial Action Underway:		Not reported
Post Remedial Action Monitoring Began:		Not reported
Enforcement Action Date:		Not reported
Historical Max MTBE Date:		8/29/2003
Hist Max MTBE Conc in Groundwater:		730
Hist Max MTBE Conc in Soil:		Not reported
Significant Interim Remedial Action Taken:		Yes
GW Qualifier:	=	
Soil Qualifier:	Not reported	
Organization:	Not reported	
Owner Contact:	Not reported	
Responsible Party:	SHELL OIL CO	
RP Address:	P.O. BOX 25370, SANTA ANA, CA 92799	
Program:	LUST	
Lat/Long:	34.1939657 / -1	
Local Agency Staff:	PEJ	

SHELL #204-1242-0604 (Continued) **S102436980**

Beneficial Use: Not reported
Priority: Not reported
Cleanup Fund Id: Not reported
Suspended: Not reported
Assigned Name: 3301096-001GEN
Summary: MTBE=ND IN GW THIS QTR, HOWEVER FP SHEEN STILL PRESENT. ; 6/28/00 2ND QTR GW MON RPT; 10/6/00 3RD QTR GW MON RPT 2000; 12/5/01 4TH QTR GW MON RPT2000; 4/15/01 1ST QTR MON RPT 2001

B20 **JACK S KHANGURA** **CA HIST UST** **S113083342**
SW **22001 VAN OWEN** **CA HAZNET** **N/A**
< 1/8 **CANOGA PARK, CA 91303**
0.031 mi.
166 ft. **Site 11 of 22 in cluster B**

Relative:
Higher

Actual:
799 ft.

HIST UST:
File Number: 0002830B
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002830B.pdf
Region: Not reported
Facility ID: Not reported
Facility Type: Not reported
Other Type: Not reported
Contact Name: Not reported
Telephone: Not reported
Owner Name: Not reported
Owner Address: Not reported
Owner City,St,Zip: Not reported
Total Tanks: Not reported

Tank Num: Not reported
Container Num: Not reported
Year Installed: Not reported
Tank Capacity: Not reported
Tank Used for: Not reported
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Not reported

Click here for Geo Tracker PDF:

HAZNET:
envid: S113083342
Year: 1999
GEPAID: CAL000153689
Contact: EQUILON ENTERPRISES, LLC
Telephone: 7132412258
Mailing Name: Not reported
Mailing Address: PO BOX 2099 RM 1341
Mailing City,St,Zip: HOUSTON, TX 772520000
Gen County: Not reported
TSD EPA ID: CAD982484933
TSD County: Not reported
Waste Category: Empty containers less than 30 gallons
Disposal Method: Disposal, Other
Tons: .5000
Cat Decode: Not reported
Method Decode: Not reported

JACK S KHANGURA (Continued) **S113083342**

Facility County: Los Angeles

B21 **TOPANGA/VANOWEN SHELL** **CA UST** **U003779973**
SW **22001 VANOWEN ST** **N/A**
< 1/8 **CANOGA PARK, CA 91303**
0.031 mi.
166 ft. **Site 12 of 22 in cluster B**

Relative: UST:
Higher
Actual: Facility ID: Not reported
799 ft. Permitting Agency: Los Angeles City Fire Department
Latitude: 34.19406
Longitude: -118.60629

Facility ID: 23496
Permitting Agency: LOS ANGELES, CITY OF
Latitude: 34.1955242
Longitude: -118.6049118

Facility ID: Not reported
Permitting Agency: Los Angeles City Fire Department
Latitude: 34.19406
Longitude: -118.60629

B22 **JACK S. KHANGURA** **CA HIST UST** **U001567100**
SW **22001 VANOWEN ST** **N/A**
< 1/8 **CANOGA PARK, CA 91303**
0.031 mi.
166 ft. **Site 13 of 22 in cluster B**

Relative: HIST UST:
Higher
Actual: File Number: Not reported
799 ft. URL: Not reported
Region: STATE
Facility ID: 00000000465
Facility Type: Gas Station
Other Type: Not reported
Contact Name: SAME
Telephone: 8187020338
Owner Name: SHELL OIL COMPANY
Owner Address: P.O. BOX 4848
Owner City,St,Zip: ANAHEIM, CA 92803
Total Tanks: 0003

Tank Num: 001
Container Num: 1
Year Installed: 1977
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Container Construction Thickness: 1/4
Leak Detection: Stock Inventor, 10

Tank Num: 002
Container Num: 2
Year Installed: 1977

JACK S. KHANGURA (Continued) **U001567100**

Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor, 10
Tank Num:	003
Container Num:	3
Year Installed:	1977
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	PREMIUM
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor, 10

B23 **SHELL SERVICE STATION** **RCRA-SQG** **1006805211**
SW **22001 VANOWEN ST** **FINDS** **CAR000124727**
< 1/8 **CANOGA PARK, CA 91303** **ECHO**
0.031 mi. **CA HAZNET**
166 ft. **Site 14 of 22 in cluster B**

Relative:
Higher

Actual:
799 ft.

RCRA-SQG:

Date form received by agency:	08/14/2002
Facility name:	SHELL SERVICE STATION
Facility address:	22001 VANOWEN ST S A P NO 135126 CANOGA PARK, CA 91303-2551
EPA ID:	CAR000124727
Mailing address:	P O BOX 2648 HOUSTON, TX 77252-2648
Contact:	SONDRA BIENVENU
Contact address:	P O BOX 2648 HOUSTON, TX 77252-2648
Contact country:	US
Contact telephone:	713-241-5036
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	EQUILON ENTERPRISES LLC DBA
Owner/operator address:	P O BOX 2648 HOUSTON, TX 77252
Owner/operator country:	Not reported
Owner/operator telephone:	713-241-5036
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

SHELL SERVICE STATION (Continued) **1006805211**

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D018
. Waste name: BENZENE

Violation Status: No violations found

FINDS:

Registry ID: 110013309197

Environmental Interest/Information System
California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1006805211
Registry ID: 110013309197
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110013309197

SHELL SERVICE STATION (Continued) **1006805211**

HAZNET:

envid:	1006805211
Year:	2013
GEPAID:	CAR000124727
Contact:	Adam Estes
Telephone:	3172917007
Mailing Name:	Not reported
Mailing Address:	PO BOX 3127
Mailing City,St,Zip:	HOUSTON, TX 772530000
Gen County:	Los Angeles
TSD EPA ID:	CAT080013352
TSD County:	Los Angeles
Waste Category:	Not reported
Disposal Method:	Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	0.9174
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Not reported

envid:	1006805211
Year:	2007
GEPAID:	CAR000124727
Contact:	R HULL/ENV. REPORTING ANALYST
Telephone:	2818742224
Mailing Name:	Not reported
Mailing Address:	12700 NORTHBOROUGH DR 300G03
Mailing City,St,Zip:	Houston, TX 770670000
Gen County:	Not reported
TSD EPA ID:	WAD991281767
TSD County:	Not reported
Waste Category:	Other organic solids
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.02
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

envid:	1006805211
Year:	2004
GEPAID:	CAR000124727
Contact:	N CORTEZ/ENVT'L DATA ANALYST
Telephone:	2818742224
Mailing Name:	Not reported
Mailing Address:	12700 NORTHBOROUGH DRIVE MFT 240-G
Mailing City,St,Zip:	Houston, TX 770672508
Gen County:	Not reported
TSD EPA ID:	CAD008364432
TSD County:	Not reported
Waste Category:	Other organic solids
Disposal Method:	Recycler
Tons:	0.03
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

SHELL SERVICE STATION (Continued) **1006805211**

envid: 1006805211
Year: 2004
GEPAID: CAR000124727
Contact: N CORTEZ/ENVT'L DATA ANALYST
Telephone: 2818742224
Mailing Name: Not reported
Mailing Address: 12700 NORTHBOROUGH DRIVE MFT 240-G
Mailing City,St,Zip: Houston, TX 770672508
Gen County: Not reported
TSD EPA ID: CAD008364432
TSD County: Not reported
Waste Category: Other organic solids
Disposal Method: Transfer Station
Tons: 0.01
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

envid: 1006805211
Year: 2004
GEPAID: CAR000124727
Contact: N CORTEZ/ENVT'L DATA ANALYST
Telephone: 2818742224
Mailing Name: Not reported
Mailing Address: 12700 NORTHBOROUGH DRIVE MFT 240-G
Mailing City,St,Zip: Houston, TX 770672508
Gen County: Not reported
TSD EPA ID: CAD982484933
TSD County: Not reported
Waste Category: Other empty containers 30 gallons or more
Disposal Method: Disposal, Other
Tons: 3.25
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

Click this hyperlink while viewing on your computer to access
2 additional CA_HAZNET: record(s) in the EDR Site Report.

D24 **RED CARPET CAR WASH** **CA UST** **U003780157**
SSW **6760 TOPANGA CANYON BLVD** **N/A**
< 1/8 **CANOGA PARK, CA 91303**
0.042 mi.
220 ft. **Site 1 of 7 in cluster D**

Relative: UST:
Higher
Facility ID: 23646
Actual: Permitting Agency: LOS ANGELES, CITY OF
798 ft. Latitude: 34.1947179
Longitude: -118.6041619

D25 **RED CARPET CAR WASH** **CA UST** **U004266219**
SSW **6760 N TOPANGA CANYON BLVD** **N/A**
< 1/8 **CANOGA PARK, CA 91303**
0.042 mi.
220 ft. **Site 2 of 7 in cluster D**

Relative: UST:
Higher
Actual: Facility ID: Not reported
798 ft. Permitting Agency: Los Angeles City Fire Department
Latitude: 34.19325
Longitude: -118.60532

D26 **UNION OIL SERVICE STATION 48** **CA HIST UST** **U001567114**
SSW **6760 TOPANGA CANYON BLVD** **N/A**
< 1/8 **CANOGA PARK, CA 91303**
0.042 mi.
220 ft. **Site 3 of 7 in cluster D**

Relative: HIST UST:
Higher
Actual: File Number: 00028166
798 ft. URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00028166.pdf
Region: STATE
Facility ID: 00000055313
Facility Type: Gas Station
Other Type: Not reported
Contact Name: JERRY BELLO
Telephone: 8187037115
Owner Name: UNION OIL COMPANY OF CALIFORNI
Owner Address: 3701 WILSHIRE BOULEVARD - SUIT
Owner City,St,Zip: LOS ANGELES, CA 90010
Total Tanks: 0001

Tank Num: 001
Container Num: 4844-00
Year Installed: Not reported
Tank Capacity: 00000000
Tank Used for: WASTE
Type of Fuel: WASTE OIL
Container Construction Thickness: Not reported
Leak Detection: None

Click here for Geo Tracker PDF:

D27 **LEONARD J/NATHAN ELBAUM ET AL** **CA SWEEPS UST** **S101583115**
SSW **6760 TOPANGA CANYON BLVD** **CA FID UST** **N/A**
< 1/8 **CANOGA PARK, CA 91303**
0.042 mi.
220 ft. **Site 4 of 7 in cluster D**

Relative: SWEEPS UST:
Higher
Actual: Status: Active
798 ft. Comp Number: 1221
Number: 9
Board Of Equalization: 44-011660
Referral Date: 01-22-93
Action Date: 03-16-94
Created Date: 02-29-88
Owner Tank Id: Not reported

LEONARD J/NATHAN ELBAUM ET AL (Continued) **S101583115**

SWRCB Tank Id: 19-050-001221-000001
Tank Status: A
Capacity: 280
Active Date: 04-20-88
Tank Use: OIL
STG: W
Content: WASTE OIL
Number Of Tanks: 3

Status: Active
Comp Number: 1221
Number: 9
Board Of Equalization: 44-011660
Referral Date: 01-22-93
Action Date: 03-16-94
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 19-050-001221-000002
Tank Status: A
Capacity: 7500
Active Date: 04-20-88
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: Active
Comp Number: 1221
Number: 9
Board Of Equalization: 44-011660
Referral Date: 01-22-93
Action Date: 03-16-94
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 19-050-001221-000003
Tank Status: A
Capacity: 7500
Active Date: 04-20-88
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

CA FID UST:
Facility ID: 19002701
Regulated By: UTNKA
Regulated ID: 00017443
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 8188880115
Mail To: Not reported
Mailing Address: TOPANGA PLZ
Mailing Address 2: Not reported
Mailing City,St,Zip: CANOGA PARK 913030000
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported

LEONARD J/NATHAN ELBAUM ET AL (Continued) **S101583115**

NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

D28 **RED CARPET CAR WASH** **EDR Hist Auto** **1020484742**
SSW **6760 TOPANGA CYN BLVD** **N/A**
< 1/8 **CANOGA PARK, CA 91303**
0.042 mi.
220 ft. **Site 5 of 7 in cluster D**

Relative: EDR Hist Auto
Higher

Actual:
798 ft.

Year:	Name:	Type:
1969	DOBRY T A JR	Gasoline Service Stations
1970	DOBRY T A JR	Gasoline Service Stations
1971	DOBRY T A JR	Gasoline Service Stations
1972	D & H UNION SERVICE	Gasoline Service Stations
1972	DOBRY T A JR	Gasoline Service Stations
1973	DOBRY T A JR	Gasoline Service Stations
1973	D & H UNION SERVICE	Gasoline Service Stations
1974	D & H UNION SERVICE	Gasoline Service Stations
1974	DOBRY T A JR	Gasoline Service Stations
1975	DOBRY T A JR	Gasoline Service Stations
1976	D & H UNION SERVICE	Gasoline Service Stations
1983	D & H UNION SERVICE	Gasoline Service Stations
1985	JERRYS UNION SERVICE	Gasoline Service Stations
1986	JERRYS UNION SERVICE	Gasoline Service Stations
1987	JERRYS UNION SERVICE	Gasoline Service Stations
1988	JERRYS UNION SERVICE	Gasoline Service Stations
1989	JERRYS UNION SERVICE	Gasoline Service Stations
1989	RED CARPET CAR WASH	General Automotive Repair Shops
1991	RED CARPET CAR WASH	General Automotive Repair Shops
1992	RED CARPET CAR WASH	General Automotive Repair Shops
1993	RED CARPET CARWASH	Carwashes, NEC
1994	RED CARPET CARWASH	Carwashes, NEC
1995	RED CARPET CARWASH	Carwashes, NEC
1996	RED CARPET CARWASH	Carwashes, NEC
1997	RED CARPET CARWASH	Carwashes, NEC
1998	RED CARPET CARWASH	Carwashes, NEC
1999	RED CARPET CARWASH	Carwashes, NEC
2000	RED CARPET CARWASH	Carwashes, NEC
2001	RED CARPET CARWASH	Carwashes, NEC
2002	RED CARPET CARWASH	Carwashes, NEC
2003	RED CARPET CARWASH	Carwashes, NEC
2004	RED CARPET CARWASH	Carwashes, NEC
2005	RED CARPET CARWASH	Carwashes, NEC
2006	RED CARPET CARWASH	Carwashes, NEC
2007	RED CARPET CARWASH	Carwashes, NEC
2008	RED CARPET CARWASH	Carwashes, NEC
2009	RED CARPET CARWASH	Carwashes, NEC
2010	RED CARPET CARWASH	Carwashes, NEC
2011	RED CARPET CARWASH	Carwashes, NEC
2012	RED CARPET CARWASH	Carwashes, NEC
2013	RED CARPET CARWASH	Carwashes, NEC
2014	FO GAS INC	Gasoline Service Stations
2014	UNOCAL DEALERS SERVICES STNS	Gasoline Service Stations
2014	RED CARPET CARWASH	Carwashes, NEC

D29
SSW
< 1/8
0.042 mi.
220 ft.

SERVICE STATION 4844
6760 TOPANGA CANYON BLVD
CANOGA PARK, CA 91303

Site 6 of 7 in cluster D

CA LUST **U001567110**
CA HIST UST **N/A**

Relative:
Higher

Actual:
798 ft.

LUST:

Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0603702073
Global Id:	T0603702073
Latitude:	34.1928077
Longitude:	-118.6055332
Status:	Completed - Case Closed
Status Date:	09/23/2015
Case Worker:	MB
RB Case Number:	913030507A
Local Agency:	LOS ANGELES, CITY OF
File Location:	Regional Board
Local Case Number:	Not reported
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

LUST:

Global Id:	T0603702073
Contact Type:	Local Agency Caseworker
Contact Name:	ELOY LUNA
Organization Name:	LOS ANGELES, CITY OF
Address:	200 North Main Street, Suite 1780
City:	LOS ANGELES
Email:	eloy.luna@lacity.org
Phone Number:	Not reported

Global Id:	T0603702073
Contact Type:	Regional Board Caseworker
Contact Name:	MAGDY BAIADY
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	320 W. 4TH ST., SUITE 200
City:	LOS ANGELES
Email:	mbaiady@waterboards.ca.gov
Phone Number:	2135766699

LUST:

Global Id:	T0603702073
Action Type:	RESPONSE
Date:	04/15/2011
Action:	Monitoring Report - Quarterly

Global Id:	T0603702073
Action Type:	RESPONSE
Date:	10/04/2007
Action:	Soil and Water Investigation Workplan

Global Id:	T0603702073
Action Type:	RESPONSE
Date:	10/15/2002
Action:	Soil and Water Investigation Report

SERVICE STATION 4844 (Continued) **U001567110**

Global Id: T0603702073
Action Type: RESPONSE
Date: 01/15/2009
Action: Monitoring Report - Quarterly

Global Id: T0603702073
Action Type: RESPONSE
Date: 01/15/2010
Action: Remedial Progress Report

Global Id: T0603702073
Action Type: RESPONSE
Date: 07/15/2013
Action: Monitoring Report - Semi-Annually

Global Id: T0603702073
Action Type: ENFORCEMENT
Date: 01/26/2003
Action: Technical Correspondence / Assistance / Other

Global Id: T0603702073
Action Type: RESPONSE
Date: 07/15/2007
Action: Monitoring Report - Quarterly

Global Id: T0603702073
Action Type: RESPONSE
Date: 04/15/2007
Action: Monitoring Report - Quarterly

Global Id: T0603702073
Action Type: RESPONSE
Date: 05/28/2008
Action: Well Installation Report

Global Id: T0603702073
Action Type: RESPONSE
Date: 07/15/2009
Action: Monitoring Report - Quarterly

Global Id: T0603702073
Action Type: ENFORCEMENT
Date: 06/15/2009
Action: Staff Letter

Global Id: T0603702073
Action Type: ENFORCEMENT
Date: 08/28/2009
Action: Site Visit / Inspection / Sampling

Global Id: T0603702073
Action Type: RESPONSE
Date: 01/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603702073
Action Type: RESPONSE

SERVICE STATION 4844 (Continued) **U001567110**

Date: 10/15/2009
Action: Monitoring Report - Quarterly

Global Id: T0603702073
Action Type: ENFORCEMENT
Date: 11/30/2005
Action: Staff Letter

Global Id: T0603702073
Action Type: RESPONSE
Date: 10/15/2006
Action: Monitoring Report - Quarterly

Global Id: T0603702073
Action Type: RESPONSE
Date: 07/15/2011
Action: Monitoring Report - Quarterly

Global Id: T0603702073
Action Type: RESPONSE
Date: 10/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603702073
Action Type: RESPONSE
Date: 07/15/2010
Action: Monitoring Report - Quarterly

Global Id: T0603702073
Action Type: RESPONSE
Date: 10/01/2008
Action: CAP/RAP - Feasibility Study Report

Global Id: T0603702073
Action Type: RESPONSE
Date: 10/15/2007
Action: Other Report / Document

Global Id: T0603702073
Action Type: RESPONSE
Date: 06/04/2009
Action: Well Installation Report

Global Id: T0603702073
Action Type: RESPONSE
Date: 09/14/2009
Action: Soil and Water Investigation Report

Global Id: T0603702073
Action Type: RESPONSE
Date: 02/27/2014
Action: Request for Closure - Regulator Responded

Global Id: T0603702073
Action Type: Other
Date: 04/01/1990
Action: Leak Discovery

SERVICE STATION 4844 (Continued) **U001567110**

Global Id: T0603702073
Action Type: RESPONSE
Date: 10/15/2002
Action: Soil and Water Investigation Workplan

Global Id: T0603702073
Action Type: Other
Date: 04/01/1990
Action: Leak Stopped

Global Id: T0603702073
Action Type: ENFORCEMENT
Date: 09/15/2009
Action: Staff Letter

Global Id: T0603702073
Action Type: Other
Date: 12/31/1987
Action: Leak Reported

Global Id: T0603702073
Action Type: RESPONSE
Date: 01/15/2007
Action: Monitoring Report - Quarterly

Global Id: T0603702073
Action Type: RESPONSE
Date: 07/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603702073
Action Type: RESPONSE
Date: 10/15/2011
Action: Monitoring Report - Quarterly

Global Id: T0603702073
Action Type: RESPONSE
Date: 05/24/2013
Action: Other Workplan - Regulator Responded

Global Id: T0603702073
Action Type: RESPONSE
Date: 07/15/2012
Action: Monitoring Report - Semi-Annually

Global Id: T0603702073
Action Type: RESPONSE
Date: 01/15/2013
Action: Monitoring Report - Semi-Annually

Global Id: T0603702073
Action Type: ENFORCEMENT
Date: 09/10/2002
Action: 13267 Requirement

Global Id: T0603702073
Action Type: ENFORCEMENT

SERVICE STATION 4844 (Continued) **U001567110**

Date: 09/23/2015
Action: Closure/No Further Action Letter

Global Id: T0603702073
Action Type: REMEDIATION
Date: 06/12/2009
Action: Soil Vapor Extraction (SVE)

Global Id: T0603702073
Action Type: RESPONSE
Date: 10/15/2010
Action: Monitoring Report - Quarterly

Global Id: T0603702073
Action Type: RESPONSE
Date: 04/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603702073
Action Type: RESPONSE
Date: 01/15/2014
Action: Monitoring Report - Semi-Annually

Global Id: T0603702073
Action Type: ENFORCEMENT
Date: 04/16/2014
Action: Notification - Preclosure

Global Id: T0603702073
Action Type: ENFORCEMENT
Date: 11/21/2007
Action: Staff Letter

Global Id: T0603702073
Action Type: RESPONSE
Date: 01/15/2012
Action: Monitoring Report - Semi-Annually

Global Id: T0603702073
Action Type: RESPONSE
Date: 01/15/2011
Action: Monitoring Report - Quarterly

Global Id: T0603702073
Action Type: RESPONSE
Date: 01/29/2014
Action: Site Assessment Report

Global Id: T0603702073
Action Type: RESPONSE
Date: 07/20/2009
Action: Soil and Water Investigation Workplan

Global Id: T0603702073
Action Type: RESPONSE
Date: 04/15/2009
Action: Monitoring Report - Quarterly

SERVICE STATION 4844 (Continued) **U001567110**

Global Id: T0603702073
Action Type: RESPONSE
Date: 01/15/2010
Action: Monitoring Report - Quarterly

Global Id: T0603702073
Action Type: RESPONSE
Date: 04/15/2010
Action: Monitoring Report - Quarterly

LUST:
Global Id: T0603702073
Status: Completed - Case Closed
Status Date: 12/19/1996

Global Id: T0603702073
Status: Completed - Case Closed
Status Date: 09/23/2015

Global Id: T0603702073
Status: Open - Case Begin Date
Status Date: 12/31/1987

Global Id: T0603702073
Status: Open - Eligible for Closure
Status Date: 06/20/2014

Global Id: T0603702073
Status: Open - Reopen Case
Status Date: 09/10/2002

Global Id: T0603702073
Status: Open - Site Assessment
Status Date: 04/01/1990

Global Id: T0603702073
Status: Open - Site Assessment
Status Date: 07/25/1990

Global Id: T0603702073
Status: Open - Site Assessment
Status Date: 04/21/1992

Global Id: T0603702073
Status: Open - Site Assessment
Status Date: 07/15/1992

Global Id: T0603702073
Status: Open - Site Assessment
Status Date: 11/23/2005

Global Id: T0603702073
Status: Open - Site Assessment
Status Date: 10/04/2007

Global Id: T0603702073
Status: Open - Verification Monitoring

SERVICE STATION 4844 (Continued) **U001567110**

Status Date: 05/09/1996

HIST UST:

File Number:	0002916B
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002916B.pdf
Region:	STATE
Facility ID:	00000017443
Facility Type:	Gas Station
Other Type:	Not reported
Contact Name:	JERRY BELLO
Telephone:	8187037115
Owner Name:	UNION OIL COMPANY OF CALIFORNI
Owner Address:	3701 WILSHIRE BOULEVARD - SUIT
Owner City,St,Zip:	LOS ANGELES, CA 90010
Total Tanks:	0003
Tank Num:	001
Container Num:	4844-4
Year Installed:	1962
Tank Capacity:	00000280
Tank Used for:	WASTE
Type of Fuel:	WASTE OIL
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor, Pressure Test
Tank Num:	002
Container Num:	4844-2
Year Installed:	1962
Tank Capacity:	00007500
Tank Used for:	PRODUCT
Type of Fuel:	PREMIUM
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor, Pressure Test
Tank Num:	003
Container Num:	4844-1
Year Installed:	1962
Tank Capacity:	00007500
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor, Pressure Test

Click here for Geo Tracker PDF:

D30 **UNOCAL #4844** **CA LUST S105023050**
SSW **6760 TOPANGA CANYON BLVD** **CA HIST CORTESE N/A**
< 1/8 **LOS ANGELES, CA 91303**
0.042 mi.
220 ft. **Site 7 of 7 in cluster D**

Relative:
Higher

Actual:
798 ft.

LUST REG 4:

Region:	4
Regional Board:	04
County:	Los Angeles
Facility Id:	913030507A

UNOCAL #4844 (Continued) **S105023050**

Status:	Suspension of Work Letter from Cleanup Fund	
Substance:	Gasoline	
Substance Quantity:	Not reported	
Local Case No:	Not reported	
Case Type:	Groundwater	
Abatement Method Used at the Site:		FPVE
Global ID:	T0603702073	
W Global ID:	W0606501096	
Staff:	MB	
Local Agency:	19050	
Cross Street:	VANOWEN ST	
Enforcement Type:	TA-GEN	
Date Leak Discovered:	4/1/1990	
Date Leak First Reported:		12/31/1987
Date Leak Record Entered:	9/5/1990	
Date Confirmation Began:	4/1/1990	
Date Leak Stopped:	4/1/1990	
Date Case Last Changed on Database:		4/1/1997
Date the Case was Closed:		12/19/1996
How Leak Discovered:	Tank Closure	
How Leak Stopped:	Not reported	
Cause of Leak:	UNK	
Leak Source:	UNK	
Operator:	Not reported	
Water System:	HABONIM CAMP GILBOA	
Well Name:	Not reported	
Approx. Dist To Production Well (ft):		5485.010953815384151623373901 5
Source of Cleanup Funding:		UNK
Preliminary Site Assessment Workplan Submitted:		7/25/1990
Preliminary Site Assessment Began:		4/21/1992
Pollution Characterization Began:		7/15/1992
Remediation Plan Submitted:		Not reported
Remedial Action Underway:		Not reported
Post Remedial Action Monitoring Began:		5/9/1996
Enforcement Action Date:		Not reported
Historical Max MTBE Date:		1/1/1965
Hist Max MTBE Conc in Groundwater:		1800
Hist Max MTBE Conc in Soil:		Not reported
Significant Interim Remedial Action Taken:		Yes
GW Qualifier:	Not reported	
Soil Qualifier:	Not reported	
Organization:	Not reported	
Owner Contact:	Not reported	
Responsible Party:	ENVIRONMENTAL REMEDIATION SERV	
RP Address:	376 S VALENCIA AVE, BREA, CA 92621	
Program:	LUST	
Lat/Long:	34.1928077 / -1	
Local Agency Staff:	PEJ	
Beneficial Use:	Not reported	
Priority:	Not reported	
Cleanup Fund Id:	Not reported	
Suspended:	Not reported	
Assigned Name:	3301096-001GEN	
Summary:	09/30/96 - QUARTERLY MONITORING REPORT REQUEST FOR CLOSURE 12/06/96 - 12/31/96 - QUARTERLY MONITORING REPORT 04/01/97 - WELL ABANDONMENT REPORT	

UNOCAL #4844 (Continued) **S105023050**

HIST CORTESE:
Region: CORTESE
Facility County Code: 19
Reg By: LTNKA
Reg Id: 913030507

B31 **PACIFIC BELL (B1-100)** **CA LUST S105023057**
SW **22012 VANOWEN ST** **CA HIST CORTESE N/A**
< 1/8 **LOS ANGELES, CA 91303**
0.045 mi.
235 ft. **Site 15 of 22 in cluster B**

Relative:
Higher

Actual:
799 ft.

LUST:
Lead Agency: LOS ANGELES RWQCB (REGION 4)
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0603702083
Global Id: T0603702083
Latitude: 34.193732
Longitude: -118.6062338
Status: Completed - Case Closed
Status Date: 07/29/1996
Case Worker: YR
RB Case Number: 913030770
Local Agency: LOS ANGELES, CITY OF
File Location: Not reported
Local Case Number: Not reported
Potential Media Affect: Aquifer used for drinking water supply
Potential Contaminants of Concern: Diesel
Site History: Not reported

LUST:
Global Id: T0603702083
Contact Type: Local Agency Caseworker
Contact Name: ELOY LUNA
Organization Name: LOS ANGELES, CITY OF
Address: 200 North Main Street, Suite 1780
City: LOS ANGELES
Email: eloy.luna@lacity.org
Phone Number: Not reported

Global Id: T0603702083
Contact Type: Regional Board Caseworker
Contact Name: YUE RONG
Organization Name: LOS ANGELES RWQCB (REGION 4)
Address: 320 W. 4TH ST., SUITE 200
City: Los Angeles
Email: yrong@waterboards.ca.gov
Phone Number: Not reported

LUST:
Global Id: T0603702083
Action Type: Other
Date: 12/28/1988
Action: Leak Reported

LUST:
Global Id: T0603702083

PACIFIC BELL (B1-100) (Continued) **S105023057**

Status: Completed - Case Closed
Status Date: 07/29/1996

Global Id: T0603702083
Status: Open - Case Begin Date
Status Date: 12/28/1988

Global Id: T0603702083
Status: Open - Site Assessment
Status Date: 12/28/1989

HIST CORTESE:
Region: CORTESE
Facility County Code: 19
Reg By: LTNKA
Reg Id: 913030770

E32 **PEP BOYS-CANOGA PARK** **CA HIST UST** **U001567106**
NNW **7020 TOPANGA CANYON BLVD** **N/A**
< 1/8 **CANOGA PARK, CA 91303**
0.047 mi.
248 ft. **Site 1 of 9 in cluster E**

Relative:
Higher

Actual:
797 ft.

HIST UST:
File Number: 00027C92
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00027C92.pdf
Region: STATE
Facility ID: 00000003745
Facility Type: Other
Other Type: WASTE TANK
Contact Name: JAMES LANE
Telephone: 2137485751
Owner Name: PEP BOYS MANNY, MOE & JAKE
Owner Address: 1124 W. WASHINGTON BLVD.
Owner City,St,Zip: LOS ANGELES, CA 90015
Total Tanks: 0001

Tank Num: 001
Container Num: 1
Year Installed: Not reported
Tank Capacity: 00000550
Tank Used for: WASTE
Type of Fuel: WASTE OIL
Container Construction Thickness: Not reported
Leak Detection: Visual

Click here for Geo Tracker PDF:

E33
NNW
< 1/8
0.047 mi.
248 ft.

PEP BOYS - CANOGA PARK STORE
7020 TOPANGA CANYON BLVD
CANOGA PARK, CA 91303

Site 2 of 9 in cluster E

Relative: Higher

Actual: 797 ft.

CA SWEEPS UST **S101585826**
CA FID UST **N/A**

SWEEPS UST:

Status:	Not reported
Comp Number:	260
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-050-000260-000001
Tank Status:	Not reported
Capacity:	550
Active Date:	Not reported
Tank Use:	OIL
STG:	WASTE
Content:	WASTE OIL
Number Of Tanks:	1

CA FID UST:

Facility ID:	19030581
Regulated By:	UTNKI
Regulated ID:	00003745
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	2137485751
Mail To:	Not reported
Mailing Address:	1124 W WASHINGTON BLVD
Mailing Address 2:	Not reported
Mailing City,St,Zip:	CANOGA PARK 913030000
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Inactive

E34
NNW
< 1/8
0.047 mi.
248 ft.

PEP BOYS
7020 TOPANGA CANYON BLVD
CANOGA PARK, CA 91303

Site 3 of 9 in cluster E

Relative: Higher

Actual: 797 ft.

RCRA NonGen / NLR **1000105154**
FINDS **CAD982007221**
ECHO

RCRA NonGen / NLR:

Date form received by agency:	06/22/1998
Facility name:	PEP BOYS
Facility address:	7020 TOPANGA CANYON BLVD CANOGA PARK, CA 91303
EPA ID:	CAD982007221
Mailing address:	PO BOX 15806 LOS ANGELES, CA 90015
Contact:	AMY R KALMAN
Contact address:	3111 W ALLEGHENY AVE

PEP BOYS (Continued) **1000105154**

PHILADELPHIA, PA 19132
Contact country: US
Contact telephone: 215-227-9017
Contact email: Not reported
EPA Region: 09
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: PEP BOYS OF CALIFORNIA
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 09/01/1996
Site name: PEP BOYS
Classification: Small Quantity Generator

PEP BOYS (Continued) **1000105154**

Violation Status: No violations found

FINDS:

Registry ID: 110002774383

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000105154
Registry ID: 110002774383
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002774383

B35 **CALIFORNIA CLEANERS** **CA DRYCLEANERS** **S121700382**
SW **22017 VANOWEN** **N/A**
< 1/8 **CANOGA PARK, CA 91303**
0.052 mi.
274 ft. **Site 16 of 22 in cluster B**

Relative: DRYCLEAN SOUTH COAST:
Higher
Actual: Facility ID: 93433
799 ft. Application Number: 272624
Permit Number: D62034
Status: S
Representative Name: ANGEL SEVADJIAN
Representative Telephone: 818 9990476
Permit Status: INACTIVE
BCAT Number: 000234
BCAT Description: DRY CLEANING EQUIP PERCHLOROETHYLENE
CCAT Number: 52
CCAT Description: REFRIGERATED CONDENSER
UTM East: 352.54998779
UTM North: 3784.1799316

B36 **N & E CLEANERS, NAHLA BAKHOM DBA** **CA DRYCLEANERS** **S121694950**
SW **22017 VANOWEN ST** **N/A**
< 1/8 **CANOGA PARK, CA 91303**
0.052 mi.
274 ft. **Site 17 of 22 in cluster B**

Relative: DRYCLEAN SOUTH COAST:
Higher
Actual: Facility ID: 131318
799 ft. Application Number: 396967
Permit Number: F49499
Status: O
Representative Name: NAHLA BAKHOM

N & E CLEANERS, NAHLA BAKHOM DBA (Continued) **S121694950**

Representative Telephone:	818 9921690
Permit Status:	INACTIVE
BCAT Number:	000234
BCAT Description:	DRY CLEANING EQUIP PERCHLOROETHYLENE
CCAT Number:	Not reported
CCAT Description:	Not reported
UTM East:	351.98098755
UTM North:	3784.6149902

Facility ID:	131318
Application Number:	416587
Permit Number:	F61678
Status:	O
Representative Name:	NAHLA BAKHOM
Representative Telephone:	818 9921690
Permit Status:	INACTIVE
BCAT Number:	000603
BCAT Description:	DRY CLEANING,DRY-TO-DRY NV,W/ SIC,PERC
CCAT Number:	Not reported
CCAT Description:	Not reported
UTM East:	351.98098755
UTM North:	3784.6149902

B37 **WHITE ANGEL'S CLEANERS** **CA DRYCLEANERS** **S121694056**
SW **22017 VANOWEN ST** **N/A**
< 1/8 **CANOGA PARK, CA 91303**
0.052 mi.
274 ft. **Site 18 of 22 in cluster B**

Relative: DRYCLEAN SOUTH COAST:
Higher

Facility ID:	114507
Application Number:	335481
Permit Number:	F11326
Status:	S
Representative Name:	ROMAN ANTONOV
Representative Telephone:	818 8881357
Permit Status:	INACTIVE
BCAT Number:	000234
BCAT Description:	DRY CLEANING EQUIP PERCHLOROETHYLENE
CCAT Number:	Not reported
CCAT Description:	Not reported
UTM East:	352.54998779
UTM North:	3784.1799316

Actual:
799 ft.

B38 **WHITE ANGELS CLEANERS, M KHOURY, DBA** **CA DRYCLEANERS** **S121694499**
SW **22017 VANOWEN ST** **N/A**
< 1/8 **CANOGA PARK, CA 91303**
0.052 mi.
274 ft. **Site 19 of 22 in cluster B**

Relative: DRYCLEAN SOUTH COAST:
Higher

Facility ID:	122133
Application Number:	366294
Permit Number:	F29950
Status:	S
Representative Name:	MAHER (MIKE) KHOURY

Actual:
799 ft.

WHITE ANGELS CLEANERS, M KHOURY, DBA (Continued) **S121694499**

Representative Telephone:	818 8881357
Permit Status:	INACT_NR
BCAT Number:	000234
BCAT Description:	DRY CLEANING EQUIP PERCHLOROETHYLENE
CCAT Number:	Not reported
CCAT Description:	Not reported
UTM East:	351.98098755
UTM North:	3784.6149902

B39 **N E CLEANERS** **EDR Hist Cleaner** **1020046514**
SW **22017 VANOWEN ST** **N/A**
< 1/8 **CANOGA PARK, CA 91303**
0.052 mi.
274 ft. **Site 20 of 22 in cluster B**

Relative: EDR Hist Cleaner
Higher

Actual: **799 ft.**

Year:	Name:	Type:
1994	WHITE ANGELS CLEANERS	Drycleaning Plants, Except Rugs, NEC
2002	N E CLEANERS	Drycleaning Plants, Except Rugs, NEC
2003	N E CLEANERS	Drycleaning Plants, Except Rugs, NEC
2004	N E CLEANERS	Drycleaning Plants, Except Rugs, NEC
2005	N E CLEANERS	Drycleaning Plants, Except Rugs, NEC
2006	N E CLEANERS	Drycleaning Plants, Except Rugs, NEC
2007	N E CLEANERS	Drycleaning Plants, Except Rugs, NEC
2008	N E CLEANERS	Drycleaning Plants, Except Rugs, NEC
2009	N E CLEANERS	Drycleaning Plants, Except Rugs, NEC
2010	N E CLEANERS	Drycleaning Plants, Except Rugs, NEC

B40 **WHITE ANGEL CLEANERS** **RCRA-SQG** **1000819177**
SW **22017 VANOWEN ST** **CA CPS-SLIC** **CAD983651472**
< 1/8 **CANOGA PARK, CA 91303** **FINDS**
0.052 mi. **ECHO**
274 ft. **Site 21 of 22 in cluster B** **CA DRYCLEANERS**
CA HAZNET
Relative: **CA WDR**
Higher **CA CIWQS**

Actual: **799 ft.**

RCRA-SQG:

Date form received by agency:	04/03/1996
Facility name:	WHITE ANGEL CLEANERS
Facility address:	22017 VANOWEN ST CANOGA PARK, CA 91303
EPA ID:	CAD983651472
Contact:	ZENOP DUZOABANYAN
Contact address:	22017 VANOWEN ST CANOGA PARK, CA 91313
Contact country:	US
Contact telephone:	818-888-1357
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of

WHITE ANGEL CLEANERS (Continued) **1000819177**

hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: ZENOP DUZOABANYAN
Owner/operator address: 22017 VANOWEN
CANOGA PARK, CA 91313
Owner/operator country: Not reported
Owner/operator telephone: 818-888-1357
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

CPS-SLIC:
Region: STATE
Facility Status: **Open - Assessment & Interim Remedial Action**
Status Date: 10/06/2015
Global Id: SL0603768586
Lead Agency: LOS ANGELES RWQCB (REGION 4)
Lead Agency Case Number: Not reported
Latitude: 34.1942414065928
Longitude: -118.606774331352
Case Type: Cleanup Program Site
Case Worker: BA
Local Agency: Not reported
RB Case Number: 1153
File Location: Regional Board
Potential Media Affected: Aquifer used for drinking water supply, Soil, Soil Vapor
Potential Contaminants of Concern: Other Chlorinated Hydrocarbons, Tetrachloroethylene (PCE), Trichloroethylene (TCE)
Site History: The site is a single, three-story structure and is occupied by shops on the main floors and offices on the upper floors. The building was constructed in approximately 1963 and various dry cleaners (first White Angel Cleaners and later N & E Cleaners) occupied a unit in the building and operated a dry cleaning business since approximately

WHITE ANGEL CLEANERS (Continued) **1000819177**

1992. N & E Cleaners have been operating in the unit since approximately 2001. A Phase I environmental site assessment (ESA) conducted in 2002 for property transaction indicated the existence of recognized environmental conditions. Subsurface site investigations conducted afterwards in 2002, 2003 and 2007 showed that the soil, soil vapor and groundwater are contaminated with perchloroethylene (PCE), trichloroethene (TCE) and other volatile organic compounds (VOCs) as a result of release(s) from the dry cleaning operations. The site investigations involved soil vapor survey, soil and groundwater sampling and installation of groundwater monitoring wells. Groundwater monitoring has been conducted at the site since 2005 and site investigations are still underway.

Click here to access the California GeoTracker records for this facility:

FINDS:

Registry ID: 110006483929

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000819177
Registry ID:	110006483929
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110006483929

DRYCLEANERS:

EPA Id:	CAL000231729
NAICS Code:	81232
NAICS Description:	Drycleaning and Laundry Services (except Coin-Operated)
SIC Code:	7211
SIC Description:	Power Laundries, Family and Commercial
Create Date:	11/20/2001
Facility Active:	No
Inactive Date:	07/27/2011
Facility Addr2:	Not reported
Owner Name:	EMAD GIRGIS
Owner Address:	22017 VANOWEN ST
Owner Address 2:	Not reported
Owner Telephone:	0000000000
Contact Name:	EMAD GIRGIS
Contact Address:	22017 VANOWEN ST
Contact Address 2:	Not reported
Contact Telephone:	8189921690
Mailing Name:	Not reported
Mailing Address 1:	18537 STRAHERN ST

WHITE ANGEL CLEANERS (Continued) **1000819177**

Mailing Address 2: Not reported
Mailing City: RESEDA
Mailing State: CA
Mailing Zip: 913351249
Owner Fax: 0000000000
Region Code: 3

HAZNET:
envid: 1000819177
Year: 1998
GEPAID: CAD983651472
Contact: ANGEL SEVADJIAN
Telephone: 8188881357
Mailing Name: Not reported
Mailing Address: 22017 VANOWEN ST
Mailing City,St,Zip: CANOGA PARK, CA 913032551
Gen County: Not reported
TSD EPA ID: CAD981397417
TSD County: Not reported
Waste Category: Halogenated solvents (chloroforms, methyl chloride, perchloroethylene, etc)
Disposal Method: Recycler
Tons: .8258
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

envid: 1000819177
Year: 1997
GEPAID: CAD983651472
Contact: ANGEL SEVADJIAN
Telephone: 8188881357
Mailing Name: Not reported
Mailing Address: 22017 VANOWEN ST
Mailing City,St,Zip: CANOGA PARK, CA 913032551
Gen County: Not reported
TSD EPA ID: CAD981397417
TSD County: Not reported
Waste Category: Halogenated solvents (chloroforms, methyl chloride, perchloroethylene, etc)
Disposal Method: Recycler
Tons: .0959
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

envid: 1000819177
Year: 1996
GEPAID: CAD983651472
Contact: ANGEL SEVADJIAN
Telephone: 8188881357
Mailing Name: Not reported
Mailing Address: 22017 VANOWEN ST
Mailing City,St,Zip: CANOGA PARK, CA 913032551
Gen County: Not reported
TSD EPA ID: CAD981397417
TSD County: Not reported

WHITE ANGEL CLEANERS (Continued) **1000819177**

Waste Category: Not reported
Disposal Method: Recycler
Tons: .0000
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

envid: 1000819177
Year: 1996
GEPAID: CAD983651472
Contact: ANGEL SEVADJIAN
Telephone: 8188881357
Mailing Name: Not reported
Mailing Address: 22017 VANOWEN ST
Mailing City,St,Zip: CANOGA PARK, CA 913032551
Gen County: Not reported
TSD EPA ID: CAD981397417
TSD County: Not reported
Waste Category: Halogenated solvents (chloroforms, methyl chloride, perchloroethylene, etc)
Disposal Method: Recycler
Tons: .5317
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

envid: 1000819177
Year: 1995
GEPAID: CAD983651472
Contact: ANGEL SEVADJIAN
Telephone: 8188881357
Mailing Name: Not reported
Mailing Address: 22017 VANOWEN ST
Mailing City,St,Zip: CANOGA PARK, CA 913032551
Gen County: Not reported
TSD EPA ID: CAD981397417
TSD County: Not reported
Waste Category: Halogenated solvents (chloroforms, methyl chloride, perchloroethylene, etc)
Disposal Method: Recycler
Tons: .5881
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

Click this hyperlink while viewing on your computer to access additional CA_HAZNET: detail in the EDR Site Report.

WDR:
Global ID: WDR100021948
Status: HISTORICAL - WDR

CIWQS:
Agency: Vanowen Center, LLC
Agency Address: 2360 Plaza Del Amo Ste 210, Torrance, CA 90501
Place/Project Type: Domestic Site NEC

WHITE ANGEL CLEANERS (Continued) **1000819177**

SIC/NAICS:	Not reported
Region:	4
Program:	WDRNONMUNIPRCS
Regulatory Measure Status:	Historical
Regulatory Measure Type:	Enrollee - WDR
Order Number:	R4-2014-0187
WDID:	4B198601029
NPDES Number:	Not reported
Adoption Date:	Not reported
Effective Date:	06/30/2015
Termination Date:	10/21/2016
Expiration/Review Date:	09/11/2024
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	A
TTWQ:	3
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	34.19407
Longitude:	-118.60672

B41 **PACIFIC BELL** **RCRA-SQG** **1000250347**
SW **22012/18 VANOWEN ST** **CA LUST** **CAT080023112**
< 1/8 **CANOGA PARK, CA 91303** **CA UST**
0.058 mi. **CA SWEEPS UST**
306 ft. **Site 22 of 22 in cluster B** **CA HIST UST**
CA FID UST

Relative:
Higher

Actual:
800 ft.

RCRA-SQG:

Date form received by agency:	09/01/1996
Facility name:	PACIFIC BELL
Facility address:	22012/18 VANOWEN ST CANOGA PARK, CA 91303
EPA ID:	CAT080023112
Mailing address:	170 N FAIR OAKS PASADENA, CA 91103
Contact:	Not reported
Contact address:	Not reported Not reported
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212
Owner/operator email:	Not reported

PACIFIC BELL (Continued) **1000250347**

Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 04/09/1990
Site name: PACIFIC BELL
Classification: Large Quantity Generator

Date form received by agency: 01/19/1981
Site name: PACIFIC BELL
Classification: Large Quantity Generator

Violation Status: No violations found

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: 913030770
Status: Case Closed
Substance: Diesel
Substance Quantity: Not reported
Local Case No: Not reported

PACIFIC BELL (Continued) **1000250347**

Case Type:	Groundwater	
Abatement Method Used at the Site:		Not reported
Global ID:	T0603702083	
W Global ID:	W0606501096	
Staff:	UNK	
Local Agency:	19050	
Cross Street:	TOPANGA CANYON BLVD.	
Enforcement Type:	Not reported	
Date Leak Discovered:	Not reported	
Date Leak First Reported:		12/28/1988
Date Leak Record Entered:	8/11/1989	
Date Confirmation Began:	Not reported	
Date Leak Stopped:	Not reported	
Date Case Last Changed on Database:		11/4/1996
Date the Case was Closed:		7/29/1996
How Leak Discovered:	Not reported	
How Leak Stopped:	Not reported	
Cause of Leak:	Not reported	
Leak Source:	Not reported	
Operator:	OLD#081189-01	
Water System:	HABONIM CAMP GILBOA	
Well Name:	Not reported	
Approx. Dist To Production Well (ft):		5756.190791429672027102400 9806
Source of Cleanup Funding:		Not reported
Preliminary Site Assessment Workplan Submitted:		Not reported
Preliminary Site Assessment Began:		Not reported
Pollution Characterization Began:		12/28/1989
Remediation Plan Submitted:		Not reported
Remedial Action Underway:		Not reported
Post Remedial Action Monitoring Began:		Not reported
Enforcement Action Date:		Not reported
Historical Max MTBE Date:		Not reported
Hist Max MTBE Conc in Groundwater:		Not reported
Hist Max MTBE Conc in Soil:		Not reported
Significant Interim Remedial Action Taken:		Not reported
GW Qualifier:	Not reported	
Soil Qualifier:	Not reported	
Organization:	Not reported	
Owner Contact:	Not reported	
Responsible Party:	PACIFIC BELL	
RP Address:	2600 CAMINO RAMON, ROOM 2E050, SAN RAMON, CA 94583	
Program:	LUST	
Lat/Long:	34.1937467 / -1	
Local Agency Staff:	PEJ	
Beneficial Use:	Not reported	
Priority:	Not reported	
Cleanup Fund Id:	Not reported	
Suspended:	Not reported	
Assigned Name:	3301096-001GEN	
Summary:	Not reported	

UST:

Facility ID:	23498
Permitting Agency:	LOS ANGELES, CITY OF
Latitude:	34.1949996
Longitude:	-118.6052714

PACIFIC BELL (Continued) **1000250347**

Facility ID: FA0017591
Permitting Agency: Los Angeles City Fire Department
Latitude: 34.19371
Longitude: -118.60624

SWEEPS UST:
Status: Active
Comp Number: 3359
Number: 9
Board Of Equalization: 44-001027
Referral Date: 10-01-92
Action Date: 04-19-94
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 19-050-003359-000001
Tank Status: A
Capacity: 10000
Active Date: 04-20-88
Tank Use: M.V. FUEL
STG: P
Content: DIESEL
Number Of Tanks: 2

Status: Active
Comp Number: 3359
Number: 9
Board Of Equalization: 44-001027
Referral Date: 10-01-92
Action Date: 04-19-94
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 19-050-003359-000002
Tank Status: A
Capacity: 100
Active Date: 04-20-88
Tank Use: M.V. FUEL
STG: P
Content: DIESEL
Number Of Tanks: Not reported

HIST UST:
File Number: 00027AE6
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00027AE6.pdf
Region: STATE
Facility ID: 00000061192
Facility Type: Other
Other Type: SIC 4800
Contact Name: E.J. KOEHLER
Telephone: 4155426758
Owner Name: PACIFIC BELL
Owner Address: 370 THIRD STREET
Owner City,St,Zip: SAN FRANCISCO, CA 94107
Total Tanks: 0002

Tank Num: 001
Container Num: 1

PACIFIC BELL (Continued) **1000250347**

Year Installed: 1967
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: Not reported
Leak Detection: None

Tank Num: 002
Container Num: 1
Year Installed: 1967
Tank Capacity: 00000100
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: Not reported
Leak Detection: None

Click here for Geo Tracker PDF:

CA FID UST:
Facility ID: 19002085
Regulated By: UTNKA
Regulated ID: 00061192
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 4155426758
Mail To: Not reported
Mailing Address: 370 3RD STREET-ROOM
Mailing Address 2: Not reported
Mailing City,St,Zip: CANOGA PARK 913030000
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

E42 **BOB SMITH BMW** **RCRA-SQG** **1000131966**
NNW **7050 TOPANGA CANYON BLVD** **CA LUST** **CAD981676844**
< 1/8 **CANOGA PARK, CA 91303** **CA SWEEPS UST**
0.086 mi. **CA HIST UST**
452 ft. **Site 4 of 9 in cluster E** **CA FID UST**
FINDS
Relative: **ECHO**
Higher **CA HAZNET**

Actual:
797 ft.

RCRA-SQG:
Date form received by agency: 10/06/1986
Facility name: BOB SMITH BMW
Facility address: 7050 TOPANGA CANYON BLVD
CANOGA PARK, CA 91303
EPA ID: CAD981676844
Mailing address: TOPANGA CANYON BLVD
CANOGA PARK, CA 91303
Contact: ENVIRONMENTAL MANAGER
Contact address: 7050 TOPANGA CANYON BLVD
CANOGA PARK, CA 91303

BOB SMITH BMW (Continued) **1000131966**

Contact country: US
Contact telephone: 818-346-3144
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name: SMITH ROBERT A
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

BOB SMITH BMW (Continued) **1000131966**

LUST:
Lead Agency: LOS ANGELES, CITY OF
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0603702082
Global Id: T0603702082
Latitude: 34.198594
Longitude: -118.605483
Status: Completed - Case Closed
Status Date: 01/20/1993
Case Worker: EL
RB Case Number: 913030761
Local Agency: LOS ANGELES, CITY OF
File Location: Not reported
Local Case Number: Not reported
Potential Media Affect: Soil
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:
Global Id: T0603702082
Contact Type: Local Agency Caseworker
Contact Name: ELOY LUNA
Organization Name: LOS ANGELES, CITY OF
Address: 200 North Main Street, Suite 1780
City: LOS ANGELES
Email: eloy.luna@lacity.org
Phone Number: Not reported

Global Id: T0603702082
Contact Type: Regional Board Caseworker
Contact Name: YUE RONG
Organization Name: LOS ANGELES RWQCB (REGION 4)
Address: 320 W. 4TH ST., SUITE 200
City: Los Angeles
Email: yrong@waterboards.ca.gov
Phone Number: Not reported

LUST:
Global Id: T0603702082
Action Type: Other
Date: 03/05/1992
Action: Leak Stopped

Global Id: T0603702082
Action Type: Other
Date: 03/05/1992
Action: Leak Reported

Global Id: T0603702082
Action Type: Other
Date: 03/05/1992
Action: Leak Discovery

LUST:
Global Id: T0603702082
Status: Completed - Case Closed

BOB SMITH BMW (Continued) **1000131966**

Status Date: 01/20/1993

Global Id: T0603702082
Status: Open - Case Begin Date
Status Date: 03/05/1992

Global Id: T0603702082
Status: Open - Remediation
Status Date: 12/28/1992

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: 913030761
Status: Case Closed
Substance: Gasoline
Substance Quantity: Not reported
Local Case No: Not reported
Case Type: Soil
Abatement Method Used at the Site: Not reported
Global ID: T0603702082
W Global ID: W0606501096
Staff: UNK
Local Agency: 19050
Cross Street: VANOWEN ST
Enforcement Type: Not reported
Date Leak Discovered: 3/5/1992
Date Leak First Reported: 3/5/1992
Date Leak Record Entered: 7/10/1996
Date Confirmation Began: Not reported
Date Leak Stopped: 3/5/1992
Date Case Last Changed on Database: 1/20/1993
Date the Case was Closed: 1/20/1993
How Leak Discovered: Tank Closure
How Leak Stopped: Not reported
Cause of Leak: UNK
Leak Source: UNK
Operator: Not reported
Water System: HABONIM CAMP GILBOA
Well Name: Not reported
Approx. Dist To Production Well (ft): 7419.72337124927199431750379 62
Source of Cleanup Funding: UNK
Preliminary Site Assessment Workplan Submitted: Not reported
Preliminary Site Assessment Began: Not reported
Pollution Characterization Began: Not reported
Remediation Plan Submitted: 12/28/1992
Remedial Action Underway: Not reported
Post Remedial Action Monitoring Began: Not reported
Enforcement Action Date: Not reported
Historical Max MTBE Date: Not reported
Hist Max MTBE Conc in Groundwater: Not reported
Hist Max MTBE Conc in Soil: Not reported
Significant Interim Remedial Action Taken: Not reported
GW Qualifier: Not reported
Soil Qualifier: Not reported

BOB SMITH BMW (Continued) **1000131966**

Organization:	Not reported
Owner Contact:	Not reported
Responsible Party:	BLANK RP
RP Address:	Not reported
Program:	LUST
Lat/Long:	34.1983646 / -1
Local Agency Staff:	PEJ
Beneficial Use:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Suspended:	Not reported
Assigned Name:	3301096-001GEN
Summary:	Not reported

SWEEPS UST:

Status:	Not reported
Comp Number:	1445
Number:	Not reported
Board Of Equalization:	44-011803
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-050-001445-000001
Tank Status:	Not reported
Capacity:	Not reported
Active Date:	Not reported
Tank Use:	OIL
STG:	WASTE
Content:	WASTE OIL
Number Of Tanks:	2

Status:	Not reported
Comp Number:	1445
Number:	Not reported
Board Of Equalization:	44-011803
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-050-001445-000002
Tank Status:	Not reported
Capacity:	Not reported
Active Date:	Not reported
Tank Use:	OIL
STG:	WASTE
Content:	WASTE OIL
Number Of Tanks:	Not reported

HIST UST:

File Number:	Not reported
URL:	Not reported
Region:	STATE
Facility ID:	00000020679
Facility Type:	Other
Other Type:	AUTO DEALER

BOB SMITH BMW (Continued) **1000131966**

Contact Name: RICHARD COOK
Telephone: 8183463144
Owner Name: ROBERT A. SMITH INC. DBA BOB S
Owner Address: 7050 TOPANGA CANYON BLVD,
Owner City,St,Zip: CANOGA PARK, CA 91303
Total Tanks: 0002

Tank Num: 001
Container Num: #1 NORTH
Year Installed: 1974
Tank Capacity: 00000000
Tank Used for: WASTE
Type of Fuel: WASTE OIL
Container Construction Thickness: Not reported
Leak Detection: Pressure Test

Tank Num: 002
Container Num: #2 SOUTH
Year Installed: 1974
Tank Capacity: 00000000
Tank Used for: WASTE
Type of Fuel: WASTE OIL
Container Construction Thickness: Not reported
Leak Detection: Pressure Test

CA FID UST:
Facility ID: 19017160
Regulated By: UTNKI
Regulated ID: 00020679
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 8183463144
Mail To: Not reported
Mailing Address: 7050 TOPANGA CANYON BLVD
Mailing Address 2: Not reported
Mailing City,St,Zip: CANOGA PARK 913030000
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Inactive

FINDS:

Registry ID: 110002747396

Environmental Interest/Information System
California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of

BOB SMITH BMW (Continued) **1000131966**

events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000131966
Registry ID:	110002747396
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110002747396

HAZNET:

envid:	1000131966
Year:	2016
GEPAID:	CAC002853564
Contact:	HASKEL INY
Telephone:	3102862207
Mailing Name:	Not reported
Mailing Address:	1901 AVENUE OF THE STARS STE 931
Mailing City,St,Zip:	LOS ANGELES, CA 900676011
Gen County:	Los Angeles
TSD EPA ID:	CAT080013352
TSD County:	Los Angeles
Waste Category:	Waste oil and mixed oil
Disposal Method:	Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	0.19
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

envid:	1000131966
Year:	2016
GEPAID:	CAC002853564
Contact:	HASKEL INY
Telephone:	3102862207
Mailing Name:	Not reported
Mailing Address:	1901 AVENUE OF THE STARS STE 931
Mailing City,St,Zip:	LOS ANGELES, CA 900676011
Gen County:	Los Angeles
TSD EPA ID:	CAT080013352
TSD County:	Los Angeles
Waste Category:	Aqueous solution with total organic residues less than 10 percent
Disposal Method:	Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	2.31
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

envid:	1000131966

BOB SMITH BMW (Continued) **1000131966**

Year:	2004
GEPAID:	CAD981676844
Contact:	JAMES BENDER OR RICK COOK
Telephone:	8183463144
Mailing Name:	Not reported
Mailing Address:	24500 CALABASAS RD
Mailing City,St,Zip:	CALABASAS, CA 913020000
Gen County:	Not reported
TSD EPA ID:	CAT080013352
TSD County:	Not reported
Waste Category:	Unspecified organic liquid mixture
Disposal Method:	Recycler
Tons:	0.62
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

envid:	1000131966
Year:	2004
GEPAID:	CAD981676844
Contact:	JAMES BENDER OR RICK COOK
Telephone:	8183463144
Mailing Name:	Not reported
Mailing Address:	24500 CALABASAS RD
Mailing City,St,Zip:	CALABASAS, CA 913020000
Gen County:	Not reported
TSD EPA ID:	CAT080013352
TSD County:	Not reported
Waste Category:	Unspecified organic liquid mixture
Disposal Method:	Not reported
Tons:	0.85
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

envid:	1000131966
Year:	2004
GEPAID:	CAD981676844
Contact:	JAMES BENDER OR RICK COOK
Telephone:	8183463144
Mailing Name:	Not reported
Mailing Address:	24500 CALABASAS RD
Mailing City,St,Zip:	CALABASAS, CA 913020000
Gen County:	Not reported
TSD EPA ID:	CAT080013352
TSD County:	Not reported
Waste Category:	Oil/water separation sludge
Disposal Method:	Recycler
Tons:	8.57
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

Click this hyperlink while viewing on your computer to access
17 additional CA_HAZNET: record(s) in the EDR Site Report.

E43 **BOB SMITH BMW** **CA HIST CORTESE** **S105023053**
NNW **7050 TOPANGA CNYN** **N/A**
< 1/8 **CANOGA PARK, CA 91303**
0.086 mi.
452 ft. **Site 5 of 9 in cluster E**

Relative: HIST CORTESE:
Higher
Actual: Region: CORTESE
797 ft. Facility County Code: 19
Reg By: LTNKA
Reg Id: 91303761

E44 **BOB SMITH BMW** **CA HIST UST** **S118408059**
NNW **7050 TOPANGA CYN BLVD** **N/A**
< 1/8 **CANOGA PARK, CA 91303**
0.086 mi.
452 ft. **Site 6 of 9 in cluster E**

Relative: HIST UST:
Higher
Actual: File Number: 00027FCC
797 ft. URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00027FCC.pdf
Region: Not reported
Facility ID: Not reported
Facility Type: Not reported
Other Type: Not reported
Contact Name: Not reported
Telephone: Not reported
Owner Name: Not reported
Owner Address: Not reported
Owner City,St,Zip: Not reported
Total Tanks: Not reported

Tank Num: Not reported
Container Num: Not reported
Year Installed: Not reported
Tank Capacity: Not reported
Tank Used for: Not reported
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Not reported

Click here for Geo Tracker PDF:

E45 **DEPENDABLE AUTO REPAIR** **RCRA NonGen / NLR** **1000207477**
NNW **7039 TOPANGA CYN BLVD** **FINDS** **CAD982473431**
< 1/8 **CANOGA PARK, CA 91303** **ECHO**
0.086 mi.
454 ft. **Site 7 of 9 in cluster E**

Relative: RCRA NonGen / NLR:
Higher
Actual: Date form received by agency: 06/07/1988
797 ft. Facility name: DEPENDABLE AUTO REPAIR
Facility address: 7039 TOPANGA CYN BLVD
CANOGA PARK, CA 91303
EPA ID: CAD982473431
Mailing address: TOPANGA CYN BLVD
CANOGA PARK, CA 91303
Contact: ENVIRONMENTAL MANAGER

DEPENDABLE AUTO REPAIR (Continued) **1000207477**

Contact address: 7039 TOPANGA CYN BLVD
CANOGA PARK, CA 91303
Contact country: US
Contact telephone: 818-594-0811
Contact email: Not reported
EPA Region: 09
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: MIKE OGANESSIAN
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

DEPENDABLE AUTO REPAIR (Continued) **1000207477**

Registry ID: 110002821395

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000207477
Registry ID: 110002821395
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002821395

E46 **WARNER AUTO CENTER** **CA AST** **A100426084**
NNW **7039 TOPANGA CANYON BLVD** **N/A**
< 1/8 **CANOGA PARK, CA 91303**
0.086 mi.
454 ft. **Site 8 of 9 in cluster E**

Relative:
Higher

Actual:
797 ft.

AST:
Certified Unified Program Agencies: Not reported
Owner: Jerry Vertanous
Total Gallons: Not reported
CERSID: 10621321
Facility ID: Not reported
Business Name: Warner Auto Center
Phone: (818)281-0514
Fax: Not reported
Mailing Address: 7039 Topanga Canyon Blvd
Mailing Address City: Conoga Park
Mailing Address State: CA
Mailing Address Zip Code: 91303
Operator Name: Warner Auto Center
Operator Phone: (818)992-0697
Owner Phone: (818)992-0697
Owner Mail Address: 7039 Topanga Canyon Blvd
Owner State: CA
Owner Zip Code: 91303
Owner Country: United States
Property Owner Name: Not reported
Property Owner Phone: Not reported
Property Owner Mailing Address: Not reported
Property Owner City: Not reported
Property Owner Stat : Not reported
Property Owner Zip Code: Not reported
Property Owner Country: Not reported
EPAID: cal100036857

E47
NNW
< 1/8
0.092 mi.
486 ft.

RADEMACHER ROBERT W
7056 TOPANGA CANYON BLVD
CANOGA PARK, CA 91303

Site 9 of 9 in cluster E

EDR Hist Auto **1020761842**
N/A

Relative:
Higher

Actual:
798 ft.

EDR Hist Auto

Year:	Name:	Type:
1970	PHILLIS NEIL T	Gasoline Service Stations
1972	RADEMACHER ROBERT W	Gasoline Service Stations

48
SE
< 1/8
0.101 mi.
531 ft.

PALMA FELIPE J
21631 VANOWEN
CANOGA PARK, CA 91306

EDR Hist Auto **1021297025**
N/A

Relative:
Lower

Actual:
794 ft.

EDR Hist Auto

Year:	Name:	Type:
1969	BERGNER EUGENE R	Gasoline Service Stations
1970	BERGNER EUGENE R	Gasoline Service Stations
1973	PALMA FELIDE J	Gasoline Service Stations
1974	PALMA FELIPE J	Gasoline Service Stations
1975	PALMA FELIPE J	Gasoline Service Stations
1979	HAPPYS TEXACO	Gasoline Service Stations
1980	HAPPYS TEXACO	Gasoline Service Stations

F49
SSW
< 1/8
0.101 mi.
534 ft.

PACIFIC BELL
6685 TOPANGA CYN BLVD
CANOGA PARK, CA 91303

Site 1 of 7 in cluster F

RCRA-SQG **1000250031**
CA LUST **CAD980881494**
CA FID UST
FINDS
ECHO
CA HAZNET

Relative:
Higher

Actual:
800 ft.

RCRA-SQG:

Date form received by agency:	09/01/1996
Facility name:	PACIFIC BELL
Facility address:	6685 TOPANGA CYN BLVD CANOGA PARK, CA 91303
EPA ID:	CAD980881494
Mailing address:	170 N FAIR OAKS AVE RM 103 PASADENA, CA 91103
Contact:	Not reported
Contact address:	Not reported Not reported
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

PACIFIC BELL (Continued) **1000250031**

Owner/Operator Summary:
Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 04/09/1990
Site name: PACIFIC BELL
Classification: Large Quantity Generator

Date form received by agency: 01/18/1984
Site name: PACIFIC BELL
Classification: Large Quantity Generator

Violation Status: No violations found

LUST:

PACIFIC BELL (Continued) **1000250031**

Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0603702071
Global Id:	T0603702071
Latitude:	34.1920688
Longitude:	-118.6059504
Status:	Completed - Case Closed
Status Date:	12/18/1996
Case Worker:	YR
RB Case Number:	913030107
Local Agency:	LOS ANGELES, CITY OF
File Location:	Not reported
Local Case Number:	Not reported
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

LUST:

Global Id:	T0603702071
Contact Type:	Local Agency Caseworker
Contact Name:	ELOY LUNA
Organization Name:	LOS ANGELES, CITY OF
Address:	200 North Main Street, Suite 1780
City:	LOS ANGELES
Email:	eloy.luna@lacity.org
Phone Number:	Not reported

Global Id:	T0603702071
Contact Type:	Regional Board Caseworker
Contact Name:	YUE RONG
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	320 W. 4TH ST., SUITE 200
City:	Los Angeles
Email:	yrong@waterboards.ca.gov
Phone Number:	Not reported

LUST:

Global Id:	T0603702071
Action Type:	Other
Date:	03/03/1989
Action:	Leak Reported

LUST:

Global Id:	T0603702071
Status:	Completed - Case Closed
Status Date:	12/18/1996

Global Id:	T0603702071
Status:	Open - Case Begin Date
Status Date:	03/03/1989

Global Id:	T0603702071
Status:	Open - Site Assessment
Status Date:	10/11/1989

Global Id:	T0603702071
Status:	Open - Verification Monitoring

PACIFIC BELL (Continued) **1000250031**

Status Date: 05/12/1994

LUST REG 4:

Region:	4	
Regional Board:	04	
County:	Los Angeles	
Facility Id:	913030107	
Status:	Case Closed	
Substance:	Gasoline	
Substance Quantity:	Not reported	
Local Case No:	Not reported	
Case Type:	Soil	
Abatement Method Used at the Site:		Excavate and Dispose
Global ID:	T0603702071	
W Global ID:	W0606501096	
Staff:	UNK	
Local Agency:	19050	
Cross Street:	VANOWEN ST	
Enforcement Type:	Not reported	
Date Leak Discovered:	Not reported	
Date Leak First Reported:		3/3/1989
Date Leak Record Entered:	8/4/1989	
Date Confirmation Began:	Not reported	
Date Leak Stopped:	Not reported	
Date Case Last Changed on Database:		3/10/1997
Date the Case was Closed:		12/18/1996
How Leak Discovered:	Not reported	
How Leak Stopped:	Not reported	
Cause of Leak:	Not reported	
Leak Source:	Not reported	
Operator:	1E	
Water System:	HABONIM CAMP GILBOA	
Well Name:	Not reported	
Approx. Dist To Production Well (ft):		4802.136099293376093321107567 7
Source of Cleanup Funding:		Not reported
Preliminary Site Assessment Workplan Submitted:		Not reported
Preliminary Site Assessment Began:		Not reported
Pollution Characterization Began:		10/11/1989
Remediation Plan Submitted:		Not reported
Remedial Action Underway:		Not reported
Post Remedial Action Monitoring Began:		5/12/1994
Enforcement Action Date:		Not reported
Historical Max MTBE Date:		Not reported
Hist Max MTBE Conc in Groundwater:		Not reported
Hist Max MTBE Conc in Soil:		Not reported
Significant Interim Remedial Action Taken:		Yes
GW Qualifier:	Not reported	
Soil Qualifier:	Not reported	
Organization:	Not reported	
Owner Contact:	Not reported	
Responsible Party:	PACIFIC TELESIS CO-PACIFIC BEL	
RP Address:	2600 CAMINO RAMON, RM 1N200SS, SAN RAMON CA 94583	
Program:	LUST	
Lat/Long:	34.1909557 / -1	
Local Agency Staff:	PEJ	
Beneficial Use:	Not reported	

PACIFIC BELL (Continued) **1000250031**

Priority: Not reported
Cleanup Fund Id: Not reported
Suspended: Not reported
Assigned Name: 3301096-001GEN
Summary: 12/20/96 - SITE PLAN & TANK DETAIL THERE WAS NEVER A REALEASE FROM THIS SITE. ALL SOIL & GROUNDWATER SAMPLES TESTED NON-DETECT.

CA FID UST:
Facility ID: 19002071
Regulated By: UTNKI
Regulated ID: Not reported
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 4158238723
Mail To: Not reported
Mailing Address: 1445 VANNESS AVE
Mailing Address 2: Not reported
Mailing City,St,Zip: CANOGA PARK 913030000
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Inactive

FINDS:

Registry ID: 110002673081

Environmental Interest/Information System
California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000250031
Registry ID: 110002673081
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002673081

HAZNET:
envid: 1000250031

PACIFIC BELL (Continued) **1000250031**

Year:	2017
GEPAID:	CAD980881494
Contact:	DERONICA LAMB
Telephone:	2147410464
Mailing Name:	Not reported
Mailing Address:	308 S. AKARD ST.
Mailing City,St,Zip:	DALLAS, TX 752020000
Gen County:	Los Angeles
TSD EPA ID:	CAD097030993
TSD County:	Los Angeles
Waste Category:	Other organic solids
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.04
Cat Decode:	Other organic solids
Method Decode:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	Los Angeles

envid:	1000250031
Year:	2017
GEPAID:	CAD980881494
Contact:	DERONICA LAMB
Telephone:	2147410464
Mailing Name:	Not reported
Mailing Address:	308 S. AKARD ST.
Mailing City,St,Zip:	DALLAS, TX 752020000
Gen County:	Los Angeles
TSD EPA ID:	CAD097030993
TSD County:	Los Angeles
Waste Category:	Other organic solids
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.04
Cat Decode:	Other organic solids
Method Decode:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	Los Angeles

envid:	1000250031
Year:	2017
GEPAID:	CAD980881494
Contact:	DERONICA LAMB
Telephone:	2147410464
Mailing Name:	Not reported
Mailing Address:	308 S. AKARD ST.
Mailing City,St,Zip:	DALLAS, TX 752020000
Gen County:	Los Angeles
TSD EPA ID:	CAT080013352
TSD County:	Los Angeles
Waste Category:	Waste oil and mixed oil
Disposal Method:	Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	0.931
Cat Decode:	Waste oil and mixed oil
Method Decode:	Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect

PACIFIC BELL (Continued) **1000250031**

Facility County:	Los Angeles
envid:	1000250031
Year:	2017
GEPAID:	CAD980881494
Contact:	DERONICA LAMB
Telephone:	2147410464
Mailing Name:	Not reported
Mailing Address:	308 S. AKARD ST.
Mailing City,St,Zip:	DALLAS, TX 752020000
Gen County:	Los Angeles
TSD EPA ID:	CAT080013352
TSD County:	Los Angeles
Waste Category:	Waste oil and mixed oil
Disposal Method:	Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	0.931
Cat Decode:	Waste oil and mixed oil
Method Decode:	Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Facility County:	Los Angeles
envid:	1000250031
Year:	2017
GEPAID:	CAD980881494
Contact:	DERONICA LAMB
Telephone:	2147410464
Mailing Name:	Not reported
Mailing Address:	308 S. AKARD ST.
Mailing City,St,Zip:	DALLAS, TX 752020000
Gen County:	Los Angeles
TSD EPA ID:	CAT080013352
TSD County:	Los Angeles
Waste Category:	Unspecified aqueous solution
Disposal Method:	Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	0.189
Cat Decode:	Unspecified aqueous solution
Method Decode:	Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Facility County:	Los Angeles

Click this hyperlink while viewing on your computer to access
277 additional CA_HAZNET: record(s) in the EDR Site Report.

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50 **S&K ARCO INC** **EDR Hist Auto** **1021106101**
NE **7018 OWENSMOUTH AVE** **N/A**
< 1/8 **CANOGA PARK, CA 91303**
0.103 mi.
543 ft.

Relative: EDR Hist Auto
Lower

Actual: **794 ft.**

Year:	Name:	Type:
2006	S&K ARCO INC	Gasoline Service Stations
2007	S&K ARCO INC	Gasoline Service Stations
2008	S&K ARCO INC	Gasoline Service Stations

51
NNW
1/8-1/4
0.131 mi.
693 ft.

WADE ROUSS
7100 TOPANGA CANYON BLVD
CANOGA PARK, CA 91303

CA HIST UST **U001567098**
CA HAZNET **N/A**

Relative:
Higher

Actual:
798 ft.

HIST UST:

File Number:	Not reported
URL:	Not reported
Region:	STATE
Facility ID:	00000029056
Facility Type:	Other
Other Type:	TIRE/SERVICE
Contact Name:	Not reported
Telephone:	2133480727
Owner Name:	FIRESTONE TIRE & RUBBER CO.
Owner Address:	1200 FIRESTONE PARKWAY
Owner City,St,Zip:	AKRON, OH 44317
Total Tanks:	0001
Tank Num:	001
Container Num:	1
Year Installed:	Not reported
Tank Capacity:	00000000
Tank Used for:	WASTE
Type of Fuel:	WASTE OIL
Container Construction Thickness:	Not reported
Leak Detection:	None

HAZNET:

envid:	U001567098
Year:	2017
GEPAID:	CAC002902416
Contact:	WADE ROUSS
Telephone:	8058278852
Mailing Name:	Not reported
Mailing Address:	1320 GONZALEZ ROAD
Mailing City,St,Zip:	SIMI VALLEY, CA 93063
Gen County:	Los Angeles
TSD EPA ID:	AZC950823111
TSD County:	99
Waste Category:	Asbestos containing waste
Disposal Method:	Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons:	4.83
Cat Decode:	Asbestos containing waste
Method Decode:	Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Facility County:	Los Angeles

F52
SSW
1/8-1/4
0.131 mi.
693 ft.

TARGET STORE T2143
6700 TOPANGA CANYON BLVD
CANOGA PARK, CA 91303

Site 2 of 7 in cluster F

RCRA-LQG **1014465345** **CAR000218065**

Relative:
Higher

Actual:
801 ft.

RCRA-LQG:

Date form received by agency:	02/17/2016
Facility name:	TARGET STORE T2143
Facility address:	6700 TOPANGA CANYON BLVD CANOGA PARK, CA 91303
EPA ID:	CAR000218065
Mailing address:	PO BOX 111 MINNEAPOLIS, MN 55440
Contact:	STEVE MUSSER
Contact address:	PO BOX 111 MINNEAPOLIS, MN 55440
Contact country:	US
Contact telephone:	800-587-2228
Contact email:	POC@TARGET.COM
EPA Region:	09
Classification:	Large Quantity Generator
Description:	Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name:	TARGET CORP
Owner/operator address:	Not reported Not reported
Owner/operator country:	US
Owner/operator telephone:	Not reported
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	10/04/2006
Owner/Op end date:	Not reported

Owner/operator name:	TARGET CORPORATION
Owner/operator address:	PO BOX 111 MINNEAPOLIS, MN 55440
Owner/operator country:	US
Owner/operator telephone:	800-587-2228
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner

TARGET STORE T2143 (Continued) **1014465345**

Owner/Op start date: 10/04/2006
Owner/Op end date: Not reported

Owner/operator name: TARGET CORPORATION
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 10/04/2006
Owner/Op end date: Not reported

Owner/operator name: TARGET CORP
Owner/operator address: PO BOX 111
MINNEAPOLIS, MN 55440
Owner/operator country: US
Owner/operator telephone: 800-587-2228
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 10/04/2006
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS

TARGET STORE T2143 (Continued) **1014465345**

CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D003
. Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

. Waste code: D004
. Waste name: ARSENIC

. Waste code: D005
. Waste name: BARIUM

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: D010
. Waste name: SELENIUM

. Waste code: D011
. Waste name: SILVER

. Waste code: D016
. Waste name: 2,4-D

. Waste code: D018
. Waste name: BENZENE

. Waste code: D024
. Waste name: M-CRESOL

. Waste code: D025
. Waste name: P-CRESOL

. Waste code: D026
. Waste name: CRESOL

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

. Waste code: P001

TARGET STORE T2143 (Continued) **1014465345**

. Waste name: 2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%

. Waste code: P042
. Waste name: 1,2-BENZENEDIOL, 4-[1-HYDROXY-2-(METHYLAMINO)ETHYL]-, (R)-

. Waste code: P075
. Waste name: NICOTINE, & SALTS

. Waste code: P081
. Waste name: NITROGLYCERINE (R)

. Waste code: U002
. Waste name: ACETONE (I)

. Waste code: U034
. Waste name: ACETALDEHYDE, TRICHLORO-

. Waste code: U035
. Waste name: BENZENEBUTANOIC ACID, 4-[BIS(2-CHLOROETHYL)AMINO]-

. Waste code: U044
. Waste name: CHLOROFORM

. Waste code: U058
. Waste name: CYCLOPHOSPHAMIDE

. Waste code: U072
. Waste name: BENZENE, 1,4-DICHLORO-

. Waste code: U122
. Waste name: FORMALDEHYDE

. Waste code: U129
. Waste name: CYCLOHEXANE, 1,2,3,4,5,6-HEXACHLORO-, (1ALPHA,2ALPHA,3BETA,4ALPHA,5ALPHA,6BETA)-

. Waste code: U150
. Waste name: MELPHALAN

. Waste code: U154
. Waste name: METHANOL (I)

. Waste code: U200
. Waste name: RESERPINE

. Waste code: U201
. Waste name: 1,3-BENZENEDIOL

. Waste code: U279
. Waste name: CARBARYL (OR) 1-NAPHTHALENOL, METHYLCARBAMATE

Historical Generators:
Date form received by agency: 04/11/2011
Site name: TARGET STORE NO 2143
Classification: Small Quantity Generator

TARGET STORE T2143 (Continued) **1014465345**

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D005
. Waste name: BARIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: D011
. Waste name: SILVER

. Waste code: D016
. Waste name: 2,4-D

. Waste code: P001
. Waste name: 2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%

. Waste code: P046
. Waste name: BENZENEETHANAMINE, ALPHA,ALPHA-DIMETHYL-

. Waste code: P075
. Waste name: NICOTINE, & SALTS

Biennial Reports:

Last Biennial Reporting Year: 2017

Annual Waste Handled:
Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.
Amount (Lbs): 3453

TARGET STORE T2143 (Continued) **1014465345**

Waste code:	D002
Waste name:	A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.
Amount (Lbs):	2508
Waste code:	D004
Waste name:	ARSENIC
Amount (Lbs):	737
Waste code:	D005
Waste name:	BARIUM
Amount (Lbs):	2261
Waste code:	D006
Waste name:	CADMIUM
Amount (Lbs):	524
Waste code:	D007
Waste name:	CHROMIUM
Amount (Lbs):	2261
Waste code:	D008
Waste name:	LEAD
Amount (Lbs):	453
Waste code:	D009
Waste name:	MERCURY
Amount (Lbs):	1122
Waste code:	D010
Waste name:	SELENIUM
Amount (Lbs):	737
Waste code:	D011
Waste name:	SILVER
Amount (Lbs):	1737
Waste code:	D016
Waste name:	2,4-D
Amount (Lbs):	737
Waste code:	D018
Waste name:	BENZENE
Amount (Lbs):	1000
Waste code:	D024
Waste name:	M-CRESOL
Amount (Lbs):	737
Waste code:	D026
Waste name:	CRESOL
Amount (Lbs):	737

TARGET STORE T2143 (Continued) **1014465345**

Waste code: D035
Waste name: METHYL ETHYL KETONE
Amount (Lbs): 2161

Waste code: P001
Waste name: 2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%
Amount (Lbs): 40

Waste code: P075
Waste name: NICOTINE, & SALTS
Amount (Lbs): 40

Waste code: U002
Waste name: ACETONE (I)
Amount (Lbs): 1000

Waste code: U154
Waste name: METHANOL (I)
Amount (Lbs): 1000

Violation Status: No violations found

F53 **CVS PHARMACY #17226** **RCRA-CESQG** **1018273710**
SSW **6700 TOPANGA CANYON BLVD STE B** **FINDS** **CAR000258871**
1/8-1/4 **CANOGA PARK, CA 91303** **ECHO**
0.131 mi.
693 ft. **Site 3 of 7 in cluster F**

Relative: **Higher**
Actual: **801 ft.**

RCRA-CESQG:
Date form received by agency: 02/16/2016
Facility name: CVS PHARMACY #17226
Facility address: 6700 TOPANGA CANYON BLVD STE B
CANOGA PARK, CA 91303
EPA ID: CAR000258871
Mailing address: ONE CVS DR
WOONSOCKET, RI 02895
Contact: NICOLE WILKINSON
Contact address: ONE CVS DR MAIL CODE 2340
WOONSOCKET, RI 02895
Contact country: US
Contact telephone: 401-770-7132
Contact email: NICOLE.WILKINSON@CVSHEALTH.COM
EPA Region: 09
Classification: Conditionally Exempt Small Quantity Generator
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely

CVS PHARMACY #17226 (Continued) **1018273710**

hazardous waste

Owner/Operator Summary:

Owner/operator name:	GARFIELD BEACH CVS LLC
Owner/operator address:	Not reported
	Not reported
Owner/operator country:	US
Owner/operator telephone:	Not reported
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	12/16/2015
Owner/Op end date:	Not reported

Owner/operator name:	WESTFIRLD TOPANGA OWNER LLC
Owner/operator address:	WILSHIRE BLVD
	LOS ANGELES, CA 90025
Owner/operator country:	US
Owner/operator telephone:	Not reported
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	10/01/2006
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

. Waste code:	122
. Waste name:	Alkaline solution without metals (pH > 12.5)

. Waste code:	123
. Waste name:	Unspecified alkaline solution

. Waste code:	134
. Waste name:	Aqueous solution with <10% total organic residues

. Waste code:	141

CVS PHARMACY #17226 (Continued) **1018273710**

. Waste name: Off-specification, aged, or surplus inorganics

. Waste code: 181
. Waste name: Other inorganic solid waste

. Waste code: 214
. Waste name: Unspecified solvent mixture

. Waste code: 311
. Waste name: Pharmaceutical waste

. Waste code: 331
. Waste name: Off-specification, aged, or surplus organics

. Waste code: 352
. Waste name: Other organic solids

. Waste code: 541
. Waste name: Photochemicals / photo processing waste

. Waste code: 561
. Waste name: Detergent and soap

. Waste code: 791
. Waste name: Liquids with pH < 2

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D010
. Waste name: SELENIUM

. Waste code: D011
. Waste name: SILVER

. Waste code: D024

CVS PHARMACY #17226 (Continued) **1018273710**

. Waste name: M-CRESOL

. Waste code: P001
. Waste name: 2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%

. Waste code: U034
. Waste name: ACETALDEHYDE, TRICHLORO-

. Waste code: U044
. Waste name: CHLOROFORM

. Waste code: U122
. Waste name: FORMALDEHYDE

. Waste code: U129
. Waste name: CYCLOHEXANE, 1,2,3,4,5,6-HEXACHLORO-, (1ALPHA,2ALPHA,3BETA,4ALPHA,5ALPHA,6BETA)-

. Waste code: U188
. Waste name: PHENOL

. Waste code: U201
. Waste name: 1,3-BENZENEDIOL

. Waste code: U205
. Waste name: SELENIUM SULFIDE

Violation Status: No violations found

FINDS:

Registry ID: 110067552810

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1018273710
Registry ID: 110067552810
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110067552810

F54
SSW
1/8-1/4
0.131 mi.
693 ft.

TARGET #2143
6700 TOPANGA CANYON BLVD
CANOGA PARK, CA 91303

Site 4 of 7 in cluster F

RCRA-LQG **1014386919**
CAL000312171

Relative:
Higher

Actual:
801 ft.

RCRA-LQG:

Date form received by agency:	06/24/2010
Facility name:	TARGET #2143
Facility address:	6700 TOPANGA CANYON BLVD CANOGA PARK, CA 91303
EPA ID:	CAL000312171
Mailing address:	P.O. BOX 111 MINNEAPOLIS, MN 55440
Contact:	JANNA ADAIR-POTTS
Contact address:	P.O. BOX 111 MINNEAPOLIS, MN 55440
Contact country:	US
Contact telephone:	800-587-2228
Contact email:	CORPORATE.COMPLIANCE@TARGET.COM
EPA Region:	09
Classification:	Large Quantity Generator
Description:	Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name:	TARGET CORPORATION
Owner/operator address:	1000 NICOLLET MALL MINNEAPOLIS, MN 55403
Owner/operator country:	US
Owner/operator telephone:	800-587-2228
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	10/04/2006
Owner/Op end date:	Not reported

Owner/operator name:	TARGET CORPORATION
Owner/operator address:	Not reported Not reported
Owner/operator country:	Not reported
Owner/operator telephone:	Not reported
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator

TARGET #2143 (Continued) **1014386919**

Owner/Op start date: 10/04/2006
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: 122
. Waste name: Alkaline solution without metals (pH > 12.5)

. Waste code: 123
. Waste name: Unspecified alkaline solution

. Waste code: 141
. Waste name: Off-specification, aged, or surplus inorganics

. Waste code: 214
. Waste name: Unspecified solvent mixture

. Waste code: 291
. Waste name: Latex waste

. Waste code: 311
. Waste name: Pharmaceutical waste

. Waste code: 331
. Waste name: Off-specification, aged, or surplus organics

. Waste code: 541
. Waste name: Photochemicals / photo processing waste

. Waste code: 561
. Waste name: Detergent and soap

. Waste code: 791
. Waste name: Liquids with pH < 2

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT

TARGET #2143 (Continued) **1014386919**

WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D008
. Waste name: LEAD

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

. Waste code: P001
. Waste name: 2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%

. Waste code: P046
. Waste name: BENZENEETHANAMINE, ALPHA,ALPHA-DIMETHYL-

. Waste code: P075
. Waste name: NICOTINE, & SALTS

. Waste code: U240
. Waste name: ACETIC ACID, (2,4-DICHLOROPHENOXY)-, SALTS & ESTERS

Violation Status: No violations found

F55 **PACIFIC BELL** **CA SWEEPS UST** **S106930294**
SSW **6685 TOPANGA CANYON BLVD** **N/A**
1/8-1/4 **LOS ANGELES, CA 90011**
0.135 mi.
714 ft. **Site 5 of 7 in cluster F**

Relative:
Higher

Actual:
801 ft.

SWEEPS UST:

Status:	Active
Comp Number:	8304
Number:	1
Board Of Equalization:	Not reported
Referral Date:	09-23-93
Action Date:	09-23-93
Created Date:	09-23-93
Owner Tank Id:	Not reported
SWRCB Tank Id:	Not reported
Tank Status:	Not reported
Capacity:	Not reported
Active Date:	Not reported
Tank Use:	Not reported
STG:	Not reported
Content:	Not reported
Number Of Tanks:	Not reported

F56 **PACIFIC BELL** **CA UST** **U003780949**
SSW **6685 TOPANGA CANYON BLVD** **CA SWEEPS UST** **N/A**
1/8-1/4 **CANOGA PARK, CA 91303**
0.152 mi.
800 ft. **Site 6 of 7 in cluster F**

Relative:
Higher

Actual:
801 ft.

UST:
Facility ID: 24537
Permitting Agency: LOS ANGELES, CITY OF
Latitude: 34.19186
Longitude: -118.606

SWEEPS UST:
Status: Not reported
Comp Number: 4932
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: Not reported
Tank Status: Not reported
Capacity: Not reported
Active Date: Not reported
Tank Use: Not reported
STG: Not reported
Content: Not reported
Number Of Tanks: 0

F57 **PACIFIC BELL (B1-320) CNP** **CA HIST CORTESE** **S105023049**
SSW **6685 TOPANGA CNYN** **N/A**
1/8-1/4 **CANOGA PARK, CA 91303**
0.152 mi.
800 ft. **Site 7 of 7 in cluster F**

Relative:
Higher

Actual:
801 ft.

HIST CORTESE:
Region: CORTESE
Facility County Code: 19
Reg By: LTNKA
Reg Id: 913030107

G58 **GERARD DESIGN** **RCRA-SQG** **1000154939**
NNE **7103 OWENSMOUTH AVE UNIT B** **FINDS** **CAD982510950**
1/8-1/4 **CANOGA PARK, CA 91304** **ECHO**
0.152 mi. **CA HAZNET**
805 ft. **Site 1 of 2 in cluster G**

Relative:
Higher

Actual:
796 ft.

RCRA-SQG:
Date form received by agency: 09/01/1996
Facility name: GERARD DESIGN
Facility address: 7103 OWENSMOUTH AVE UNIT B
CANOGA PARK, CA 91304
EPA ID: CAD982510950
Contact: Not reported
Contact address: Not reported
Not reported
Contact country: US

GERARD DESIGN (Continued) **1000154939**

Contact telephone: Not reported
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: TATONE JAMES GERARD
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 08/15/1989

GERARD DESIGN (Continued) **1000154939**

Site name: GERARD DESIGN
Classification: Large Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110009547204

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000154939
Registry ID: 110009547204
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110009547204

HAZNET:
envid: 1000154939
Year: 2002
GEPAID: CAD982510950
Contact: JIM TATONE OWNER
Telephone: 8187036589
Mailing Name: Not reported
Mailing Address: PO BOX 5244
Mailing City,St,Zip: WEST HILLS, CA 913080000
Gen County: Not reported
TSD EPA ID: CAD008252405
TSD County: Not reported
Waste Category: Unspecified solvent mixture
Disposal Method: Recycler
Tons: 0.13
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

envid: 1000154939
Year: 2000
GEPAID: CAD982510950
Contact: JIM TATONE OWNER
Telephone: 8187036589
Mailing Name: Not reported
Mailing Address: PO BOX 5244
Mailing City,St,Zip: WEST HILLS, CA 913080000
Gen County: Not reported
TSD EPA ID: CAD008252405
TSD County: Not reported
Waste Category: Unspecified solvent mixture

GERARD DESIGN (Continued) **1000154939**

Disposal Method:	Recycler
Tons:	0.22
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles
envid:	1000154939
Year:	1998
GEPAID:	CAD982510950
Contact:	Not reported
Telephone:	0000000000
Mailing Name:	Not reported
Mailing Address:	7103 OWENSMOUTH AVE # B
Mailing City,St,Zip:	CANOGA PARK, CA 913032008
Gen County:	Not reported
TSD EPA ID:	CAD008252405
TSD County:	Not reported
Waste Category:	Unspecified solvent mixture
Disposal Method:	Recycler
Tons:	.2168
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles
envid:	1000154939
Year:	1996
GEPAID:	CAD982510950
Contact:	Not reported
Telephone:	0000000000
Mailing Name:	Not reported
Mailing Address:	7103 OWENSMOUTH AVE # B
Mailing City,St,Zip:	CANOGA PARK, CA 913032008
Gen County:	Not reported
TSD EPA ID:	CAD050806850
TSD County:	Not reported
Waste Category:	Paint sludge
Disposal Method:	Recycler
Tons:	.2210
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles
envid:	1000154939
Year:	1995
GEPAID:	CAD982510950
Contact:	Not reported
Telephone:	0000000000
Mailing Name:	Not reported
Mailing Address:	7103 OWENSMOUTH AVE # B
Mailing City,St,Zip:	CANOGA PARK, CA 913032008
Gen County:	Not reported
TSD EPA ID:	CAD008302903
TSD County:	Not reported
Waste Category:	Paint sludge
Disposal Method:	Recycler
Tons:	.2293
Cat Decode:	Not reported

GERARD DESIGN (Continued) **1000154939**

Method Decode: Not reported
Facility County: Los Angeles

Click this hyperlink while viewing on your computer to access
2 additional CA_HAZNET: record(s) in the EDR Site Report.

G59 **LLOYDS PLACE AUTO REPAIR** **RCRA-SQG** **1000441338**
NNE **7103 OWENSMOUTH** **FINDS** **CAD982465205**
1/8-1/4 **CANOGA PARK, CA 91303** **ECHO**
0.152 mi.
805 ft. **Site 2 of 2 in cluster G**

Relative:
Higher

Actual:
796 ft.

RCRA-SQG:
Date form received by agency: 09/01/1996
Facility name: LLOYDS PLACE AUTO REPAIR
Facility address: 7103 OWENSMOUTH
CANOGA PARK, CA 91303
EPA ID: CAD982465205
Mailing address: OWENSMOUTH
CANOGA PARK, CA 91303
Contact: Not reported
Contact address: Not reported
Not reported
Contact country: US
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: LLOYD STEELE
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private

LLOYDS PLACE AUTO REPAIR (Continued) **1000441338**

Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110002817569

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000441338
Registry ID: 110002817569
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002817569

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60 SE 1/8-1/4 0.165 mi. 873 ft. **PRATT &WHITNEY - CANOGA FACILITY, BUILDING 038** **CA CPS-SLIC** **S110590889**
21600 VANOWEN STREET **N/A**
CANOGA PARK, CA 91303

Relative: Lower
Actual: 795 ft.

CPS-SLIC:
Region: STATE
Facility Status: **Completed - Case Closed**
Status Date: 10/21/2010
Global Id: T10000003103
Lead Agency: LOS ANGELES RWQCB (REGION 4)
Lead Agency Case Number: Not reported

PRATT &WHITNEY - CANOGA FACILITY, BUILDING 038 (Continued) **S110590889**

Latitude:	34.192866
Longitude:	-118.600331
Case Type:	Cleanup Program Site
Case Worker:	AMT
Local Agency:	Not reported
RB Case Number:	0237A1
File Location:	Regional Board
Potential Media Affected:	Not reported
Potential Contaminants of Concern:	Not reported
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

H61 **CHET AUTOMOTIVE INC** **RCRA-SQG** **1000391034**
NE **21523 GAULT ST** **FINDS** **CAD982407249**
1/8-1/4 **CANOGA PARK, CA 91303** **ECHO**
0.222 mi.
1174 ft. **Site 1 of 2 in cluster H**

Relative: **Lower**

Actual: **795 ft.**

RCRA-SQG:

Date form received by agency:	03/31/1988
Facility name:	CHET AUTOMOTIVE INC
Facility address:	21523 GAULT ST CANOGA PARK, CA 91303
EPA ID:	CAD982407249
Mailing address:	GAULT ST CANOGA PARK, CA 91303
Contact:	ENVIRONMENTAL MANAGER
Contact address:	21523 GAULT ST CANOGA PARK, CA 91303
Contact country:	US
Contact telephone:	818-702-0672
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	CHET LOWE
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED

CHET AUTOMOTIVE INC (Continued) **1000391034**

NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110002805527

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000391034
Registry ID: 110002805527
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002805527

H62 **PROFESSIONAL 1 AUTO REPAIR THE** **RCRA-SQG** **1000686287**
NE **21521 GAULT ST** **FINDS** **CAD983635376**
1/8-1/4 **CANOGA PARK, CA 91303** **ECHO**
0.223 mi.
1175 ft. **Site 2 of 2 in cluster H**

Relative:
Lower

Actual:
795 ft.

RCRA-SQG:

Date form received by agency:	04/07/1992
Facility name:	PROFESSIONAL 1 AUTO REPAIR THE
Facility address:	21521 GAULT ST CANOGA PARK, CA 91303
EPA ID:	CAD983635376
Mailing address:	GAULT ST CANOGA PARK, CA 91303
Contact:	MINH NGUYEN
Contact address:	21521 GAULT ST CANOGA PARK, CA 91303
Contact country:	US
Contact telephone:	818-713-9267
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	NGUYEN MINH N G O C
Owner/operator address:	21521 GAULT ST CANOGA PARK, CA 91303
Owner/operator country:	Not reported
Owner/operator telephone:	818-713-9267
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

PROFESSIONAL 1 AUTO REPAIR THE (Continued) **1000686287**

Violation Status: No violations found

FINDS:

Registry ID: 110002875693

Environmental Interest/Information System

California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000686287
Registry ID:	110002875693
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110002875693

I63 **TOP OF THE LINE CLEANERS** **CA DRYCLEANERS** **S121698573**
NNE **7138 OWENSMOUTH AVE** **N/A**
1/8-1/4 **CANOGA PARK, CA 91303**
0.223 mi.
1176 ft. **Site 1 of 6 in cluster I**

Relative:
Higher

Actual:
797 ft.

DRYCLEAN SOUTH COAST:

Facility ID:	56621
Application Number:	155463
Permit Number:	M57641
Status:	S
Representative Name:	SOO KWON
Representative Telephone:	818 9921886
Permit Status:	INACTIVE
BCAT Number:	000234
BCAT Description:	DRY CLEANING EQUIP PERCHLOROETHYLENE
CCAT Number:	Not reported
CCAT Description:	Not reported
UTM East:	0
UTM North:	0

I64
NNE
1/8-1/4
0.223 mi.
1176 ft.

TOP OF THE LINE CLEANERS
7138 OWENSMOUTH AVE
CANOGA PARK, CA 91303

Site 2 of 6 in cluster I

CA DRYCLEANERS **S121698382**
N/A

Relative:
Higher

Actual:
797 ft.

DRYCLEAN SOUTH COAST:

Facility ID:	53933
Application Number:	146650
Permit Number:	M52677
Status:	S
Representative Name:	YOUNG SHIN SU
Representative Telephone:	818 9921886
Permit Status:	INACT_NR
BCAT Number:	000234
BCAT Description:	DRY CLEANING EQUIP PERCHLOROETHYLENE
CCAT Number:	Not reported
CCAT Description:	Not reported
UTM East:	0
UTM North:	0

I65
NNE
1/8-1/4
0.223 mi.
1176 ft.

TOP OF THE LINE CLEANERS
7138 OWENSMOUTH AVE
CANOGA PARK, CA 91303

Site 3 of 6 in cluster I

CA DRYCLEANERS **S121697809**
N/A

Relative:
Higher

Actual:
797 ft.

DRYCLEAN SOUTH COAST:

Facility ID:	43534
Application Number:	120921
Permit Number:	M37485
Status:	O
Representative Name:	CHONG M. YI
Representative Telephone:	213 8895971
Permit Status:	INACTIVE
BCAT Number:	000234
BCAT Description:	DRY CLEANING EQUIP PERCHLOROETHYLENE
CCAT Number:	Not reported
CCAT Description:	Not reported
UTM East:	0
UTM North:	0

I66
NNE
1/8-1/4
0.223 mi.
1176 ft.

TOP OF THE LINE CLEANERS
7138 OWENSMOUTH AVE
CANOGA PARK, CA 91303

Site 4 of 6 in cluster I

RCRA NonGen / NLR **1000472961**
FINDS **CAD982436552**
ECHO
CA EMI

Relative:
Higher

Actual:
797 ft.

RCRA NonGen / NLR:

Date form received by agency:	07/30/1992
Facility name:	TOP OF THE LINE CLEANERS
Facility address:	7138 OWENSMOUTH AVE CANOGA PARK, CA 91303
EPA ID:	CAD982436552
Contact:	BURTON WIXON
Contact address:	12301 WILSHIRE BLVD 514 LOS ANGELES, CA 90025
Contact country:	US

TOP OF THE LINE CLEANERS (Continued) **1000472961**

Contact telephone: 310-477-5144
Contact email: Not reported
EPA Region: 09
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: WIXEN N BURTON
Owner/operator address: 12301 WILSHIRE BLVD 514
LOS ANGELES, CA 90025
Owner/operator country: Not reported
Owner/operator telephone: 310-477-5144
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110002811798

Environmental Interest/Information System

TOP OF THE LINE CLEANERS (Continued) **1000472961**

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000472961
Registry ID:	110002811798
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110002811798

EMI:

Year:	1987
County Code:	19
Air Basin:	SC
Facility ID:	56621
Air District Name:	SC
SIC Code:	7216
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	2
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

I67 **COSMOS CLEANERS** **CA DRYCLEANERS** **S121699659**
NNE **7138 OWENSMOUTH AVE** **N/A**
1/8-1/4 **CANOGA PARK, CA 91303**
0.223 mi.
1176 ft. **Site 5 of 6 in cluster I**

Relative: **Higher**
Actual: **797 ft.**

DRYCLEAN SOUTH COAST:

Facility ID:	80753
Application Number:	235014
Permit Number:	Not reported
Status:	O
Representative Name:	YOUNG LEE
Representative Telephone:	818 6240488
Permit Status:	Not reported
BCAT Number:	000234
BCAT Description:	DRY CLEANING EQUIP PERCHLOROETHYLENE
CCAT Number:	Not reported
CCAT Description:	Not reported
UTM East:	0
UTM North:	0

I68 **TOP OF THE LINE CLEANERS** **CA DRYCLEANERS** **S121696573**
NNE **7138 OWENSMOUTH AVE** **N/A**
1/8-1/4 **CANOGA PARK, CA 91303**
0.223 mi.
1176 ft. **Site 6 of 6 in cluster I**

Relative:
Higher

Actual:
797 ft.

DRYCLEAN SOUTH COAST:

Facility ID:	16893
Application Number:	C35703
Permit Number:	M22073
Status:	O
Representative Name:	Not reported
Representative Telephone:	Not reported
Permit Status:	INACTIVE
BCAT Number:	000234
BCAT Description:	DRY CLEANING EQUIP PERCHLOROETHYLENE
CCAT Number:	Not reported
CCAT Description:	Not reported
UTM East:	0
UTM North:	0

---

69 **REINHOLD GAMPER** **CA LUST** **U003780965**
NE **7140 REMMET AVE** **CA UST** **N/A**
1/4-1/2 **CANOGA PARK, CA 91303** **CA SWEEPS UST**
0.274 mi.
1446 ft.

Relative:
Higher

Actual:
797 ft.

LUST:

Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0603780785
Global Id:	T0603780785
Latitude:	34.20038
Longitude:	-118.599927
Status:	Open - Remediation
Status Date:	05/18/2010
Case Worker:	ALT
RB Case Number:	913030961
Local Agency:	LOS ANGELES, CITY OF
File Location:	Regional Board
Local Case Number:	00871
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Waste Oil / Motor / Hydraulic / Lubricating
Site History:	Not reported

LUST:

Global Id:	T0603780785
Contact Type:	Regional Board Caseworker
Contact Name:	ADAM TAING
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	320 West 4th Street
City:	LOS ANGELES
Email:	adam.taing@waterboards.ca.gov
Phone Number:	2135766752

Global Id:	T0603780785
Contact Type:	Local Agency Caseworker
Contact Name:	ELOY LUNA
Organization Name:	LOS ANGELES, CITY OF
Address:	200 North Main Street, Suite 1780

REINHOLD GAMPER (Continued) **U003780965**

City: LOS ANGELES
Email: eloy.luna@lacity.org
Phone Number: Not reported

LUST:

Global Id: T0603780785
Action Type: Other
Date: 11/15/2005
Action: Leak Discovery

Global Id: T0603780785
Action Type: RESPONSE
Date: 11/21/2008
Action: Soil and Water Investigation Workplan

Global Id: T0603780785
Action Type: RESPONSE
Date: 05/23/2018
Action: Well Installation Report

Global Id: T0603780785
Action Type: RESPONSE
Date: 07/31/2008
Action: Site Assessment Report

Global Id: T0603780785
Action Type: ENFORCEMENT
Date: 02/23/2018
Action: Health and Safety Code Section 25296.10(c)

Global Id: T0603780785
Action Type: ENFORCEMENT
Date: 04/15/2009
Action: Staff Letter

Global Id: T0603780785
Action Type: ENFORCEMENT
Date: 05/18/2010
Action: Staff Letter

Global Id: T0603780785
Action Type: RESPONSE
Date: 05/19/2006
Action: Other Report / Document

Global Id: T0603780785
Action Type: RESPONSE
Date: 05/23/2018
Action: Other Report / Document

Global Id: T0603780785
Action Type: ENFORCEMENT
Date: 09/16/2008
Action: Notice to Comply

Global Id: T0603780785
Action Type: ENFORCEMENT

REINHOLD GAMPER (Continued) **U003780965**

Date: 06/15/2009
Action: Staff Letter

Global Id: T0603780785
Action Type: ENFORCEMENT
Date: 07/03/2015
Action: Health and Safety Code Section 25296.10(c)

Global Id: T0603780785
Action Type: RESPONSE
Date: 11/05/2009
Action: Corrective Action Plan / Remedial Action Plan

Global Id: T0603780785
Action Type: RESPONSE
Date: 01/15/2016
Action: Monitoring Report - Semi-Annually

Global Id: T0603780785
Action Type: RESPONSE
Date: 09/24/2015
Action: Well Installation Report

Global Id: T0603780785
Action Type: RESPONSE
Date: 09/24/2015
Action: CAP/RAP - Other Report

Global Id: T0603780785
Action Type: Other
Date: 11/15/2005
Action: Leak Reported

Global Id: T0603780785
Action Type: RESPONSE
Date: 07/14/2008
Action: Soil and Water Investigation Report

Global Id: T0603780785
Action Type: RESPONSE
Date: 01/15/2011
Action: Monitoring Report - Semi-Annually

Global Id: T0603780785
Action Type: REMEDIATION
Date: 11/15/2005
Action: Excavation

Global Id: T0603780785
Action Type: RESPONSE
Date: 07/15/2009
Action: Corrective Action Plan / Remedial Action Plan

Global Id: T0603780785
Action Type: RESPONSE
Date: 10/15/2009
Action: Monitoring Report - Quarterly

REINHOLD GAMPER (Continued) **U003780965**

Global Id: T0603780785
Action Type: ENFORCEMENT
Date: 08/07/2008
Action: Staff Letter

Global Id: T0603780785
Action Type: ENFORCEMENT
Date: 03/24/2006
Action: Staff Letter

Global Id: T0603780785
Action Type: RESPONSE
Date: 08/15/2010
Action: Well Installation Report

Global Id: T0603780785
Action Type: RESPONSE
Date: 08/15/2010
Action: CAP/RAP - Other Report

LUST:
Global Id: T0603780785
Status: Open - Case Begin Date
Status Date: 11/15/2005

Global Id: T0603780785
Status: Open - Remediation
Status Date: 08/07/2008

Global Id: T0603780785
Status: Open - Remediation
Status Date: 05/18/2010

Global Id: T0603780785
Status: Open - Site Assessment
Status Date: 11/15/2005

Global Id: T0603780785
Status: Open - Site Assessment
Status Date: 05/20/2008

Global Id: T0603780785
Status: Open - Site Assessment
Status Date: 04/15/2009

UST:
Facility ID: 24557
Permitting Agency: LOS ANGELES, CITY OF
Latitude: 34.201729
Longitude: -118.598578

SWEEPS UST:
Status: Active
Comp Number: 5249
Number: 2

REINHOLD GAMPER (Continued) **U003780965**

Board Of Equalization:	Not reported
Referral Date:	02-25-93
Action Date:	02-25-93
Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	Not reported
Tank Status:	Not reported
Capacity:	Not reported
Active Date:	Not reported
Tank Use:	Not reported
STG:	Not reported
Content:	Not reported
Number Of Tanks:	Not reported

---

70 North 1/4-1/2 0.277 mi. 1464 ft.

95249-CHEVRON STATION
21937 SHERMAN WAY
CANOGA PARK, CA 91303

CA LUST **S101584412**
CA SWEEPS UST **N/A**
CA FID UST

Relative: Higher

Actual: 801 ft.

LUST:

Lead Agency:	LOS ANGELES, CITY OF
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T10000005326
Global Id:	T10000005326
Latitude:	34.202667
Longitude:	-118.604207
Status:	Completed - Case Closed
Status Date:	01/02/1997
Case Worker:	Not reported
RB Case Number:	Not reported
Local Agency:	Not reported
File Location:	Not reported
Local Case Number:	Not reported
Potential Media Affect:	Not reported
Potential Contaminants of Concern:	Not reported
Site History:	Not reported

LUST:

Global Id:	T10000005326
Action Type:	Other
Date:	05/01/1996
Action:	Leak Discovery

Global Id:	T10000005326
Action Type:	Other
Date:	05/01/1996
Action:	Leak Reported

Global Id:	T10000005326
Action Type:	Other
Date:	05/01/1996
Action:	Leak Began

LUST:

Global Id:	T10000005326
Status:	Completed - Case Closed
Status Date:	01/02/1997

95249-CHEVRON STATION (Continued) **S101584412**

Global Id: T10000005326
Status: Open - Case Begin Date
Status Date: 05/01/1996

SWEEPS UST:
Status: Active
Comp Number: 3584
Number: 9
Board Of Equalization: 44-013128
Referral Date: 10-06-92
Action Date: 04-19-94
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 19-050-003584-000001
Tank Status: A
Capacity: 10000
Active Date: 10-06-92
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: 4

Status: Active
Comp Number: 3584
Number: 9
Board Of Equalization: 44-013128
Referral Date: 10-06-92
Action Date: 04-19-94
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 19-050-003584-000002
Tank Status: A
Capacity: 10000
Active Date: 10-06-92
Tank Use: CHEMICAL
STG: P
Content: UNKNOWN
Number Of Tanks: Not reported

Status: Active
Comp Number: 3584
Number: 9
Board Of Equalization: 44-013128
Referral Date: 10-06-92
Action Date: 04-19-94
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 19-050-003584-000003
Tank Status: A
Capacity: 5000
Active Date: 10-06-92
Tank Use: CHEMICAL
STG: P
Content: UNKNOWN
Number Of Tanks: Not reported

95249-CHEVRON STATION (Continued) **S101584412**

Status:	Active
Comp Number:	3584
Number:	9
Board Of Equalization:	44-013128
Referral Date:	10-06-92
Action Date:	04-19-94
Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-050-003584-000004
Tank Status:	A
Capacity:	1000
Active Date:	10-06-92
Tank Use:	OIL
STG:	W
Content:	WASTE OIL
Number Of Tanks:	Not reported

CA FID UST:

Facility ID:	19011204
Regulated By:	UTNKA
Regulated ID:	00062727
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	8183406166
Mail To:	Not reported
Mailing Address:	575 MARKET ST
Mailing Address 2:	Not reported
Mailing City,St,Zip:	CANOGA PARK 913030000
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Active

J71 **RAYNE SOFTWATER OF THE VALLEY** **CA LUST** **S101295714**
ENE **6953 CANOGA AVE** **CA ENF** **N/A**
1/4-1/2 **CANOGA PARK, CA 91303** **CA HIST CORTESE**
0.279 mi.
1471 ft. **Site 1 of 2 in cluster J**

Relative: **Lower**
Actual: **792 ft.**

LUST:

Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0603702091
Global Id:	T0603702091
Latitude:	34.1971033829177
Longitude:	-118.59798818102
Status:	Completed - Case Closed
Status Date:	07/16/2018
Case Worker:	ALT
RB Case Number:	913030852
Local Agency:	LOS ANGELES, CITY OF
File Location:	Regional Board
Local Case Number:	Not reported
Potential Media Affect:	Aquifer used for drinking water supply

RAYNE SOFTWATER OF THE VALLEY (Continued) **S101295714**

Potential Contaminants of Concern: Other Solvent or Non-Petroleum Hydrocarbon
Site History: Not reported

LUST:
Global Id: T0603702091
Contact Type: Regional Board Caseworker
Contact Name: ADAM TAING
Organization Name: LOS ANGELES RWQCB (REGION 4)
Address: 320 West 4th Street
City: LOS ANGELES
Email: adam.taing@waterboards.ca.gov
Phone Number: 2135766752

Global Id: T0603702091
Contact Type: Local Agency Caseworker
Contact Name: ELOY LUNA
Organization Name: LOS ANGELES, CITY OF
Address: 200 North Main Street, Suite 1780
City: LOS ANGELES
Email: eloy.luna@lacity.org
Phone Number: Not reported

LUST:
Global Id: T0603702091
Action Type: RESPONSE
Date: 02/12/1991
Action: Correspondence

Global Id: T0603702091
Action Type: ENFORCEMENT
Date: 06/15/2009
Action: Staff Letter

Global Id: T0603702091
Action Type: ENFORCEMENT
Date: 05/30/1997
Action: Health and Safety Code Section 25296.10(c)

Global Id: T0603702091
Action Type: RESPONSE
Date: 03/12/1999
Action: Other Report / Document

Global Id: T0603702091
Action Type: ENFORCEMENT
Date: 02/26/1999
Action: Staff Letter

Global Id: T0603702091
Action Type: ENFORCEMENT
Date: 01/10/2000
Action: Staff Letter

Global Id: T0603702091
Action Type: ENFORCEMENT
Date: 12/12/1997
Action: Staff Letter

RAYNE SOFTWATER OF THE VALLEY (Continued) **S101295714**

Global Id: T0603702091
Action Type: ENFORCEMENT
Date: 03/02/2000
Action: Staff Letter

Global Id: T0603702091
Action Type: RESPONSE
Date: 03/01/1999
Action: Soil and Water Investigation Workplan

Global Id: T0603702091
Action Type: RESPONSE
Date: 02/12/1991
Action: Preliminary Site Assessment Report

Global Id: T0603702091
Action Type: ENFORCEMENT
Date: 03/14/1997
Action: Staff Letter

Global Id: T0603702091
Action Type: ENFORCEMENT
Date: 07/16/2018
Action: Closure/No Further Action Letter

Global Id: T0603702091
Action Type: RESPONSE
Date: 05/05/2000
Action: Request for Closure

Global Id: T0603702091
Action Type: RESPONSE
Date: 02/10/2000
Action: Preliminary Site Assessment Workplan - Addendum - Regulator Responded

Global Id: T0603702091
Action Type: ENFORCEMENT
Date: 01/27/1999
Action: Staff Letter

Global Id: T0603702091
Action Type: ENFORCEMENT
Date: 04/30/1997
Action: Health and Safety Code Section 25296.10(c)

Global Id: T0603702091
Action Type: ENFORCEMENT
Date: 07/16/1999
Action: Staff Letter

Global Id: T0603702091
Action Type: ENFORCEMENT
Date: 05/09/2018
Action: Notification - Preclosure

Global Id: T0603702091
Action Type: Other

RAYNE SOFTWATER OF THE VALLEY (Continued) **S101295714**

Date: 08/29/1990
Action: Leak Discovery

Global Id: T0603702091
Action Type: Other
Date: 08/29/1990
Action: Leak Stopped

Global Id: T0603702091
Action Type: Other
Date: 08/29/1990
Action: Leak Reported

Global Id: T0603702091
Action Type: RESPONSE
Date: 07/30/1999
Action: Other Report / Document

Global Id: T0603702091
Action Type: RESPONSE
Date: 04/17/2000
Action: Site Assessment Report

Global Id: T0603702091
Action Type: RESPONSE
Date: 03/15/1998
Action: Soil and Water Investigation Workplan

Global Id: T0603702091
Action Type: RESPONSE
Date: 06/30/1997
Action: Correspondence

Global Id: T0603702091
Action Type: RESPONSE
Date: 04/18/1997
Action: Other Report / Document

Global Id: T0603702091
Action Type: RESPONSE
Date: 08/16/1999
Action: Soil and Water Investigation Workplan - Regulator Responded

Global Id: T0603702091
Action Type: ENFORCEMENT
Date: 09/16/2008
Action: Notice to Comply

Global Id: T0603702091
Action Type: ENFORCEMENT
Date: 07/16/1999
Action: Staff Letter

LUST:
Global Id: T0603702091
Status: Completed - Case Closed
Status Date: 07/16/2018

RAYNE SOFTWATER OF THE VALLEY (Continued) **S101295714**

Global Id: T0603702091
Status: Open - Case Begin Date
Status Date: 08/29/1990

Global Id: T0603702091
Status: Open - Eligible for Closure
Status Date: 06/08/2017

Global Id: T0603702091
Status: Open - Eligible for Closure
Status Date: 05/09/2018

Global Id: T0603702091
Status: Open - Site Assessment
Status Date: 08/29/1990

Global Id: T0603702091
Status: Open - Site Assessment
Status Date: 02/12/1991

Global Id: T0603702091
Status: Open - Site Assessment
Status Date: 03/02/2000

ENF:
Region: 4
Facility Id: 251842
Agency Name: Rayne Softwater of The Valley
Place Type: Facility
Place Subtype: Not reported
Facility Type: Not reported
Agency Type: Privately-Owned Business
Of Agencies: 1
Place Latitude: 34.196503
Place Longitude: -118.597466
SIC Code 1: Not reported
SIC Desc 1: Not reported
SIC Code 2: Not reported
SIC Desc 2: Not reported
SIC Code 3: Not reported
SIC Desc 3: Not reported
NAICS Code 1: Not reported
NAICS Desc 1: Not reported
NAICS Code 2: Not reported
NAICS Desc 2: Not reported
NAICS Code 3: Not reported
NAICS Desc 3: Not reported
Of Places: 1
Source Of Facility: Reg Meas
Design Flow: Not reported
Threat To Water Quality: Not reported
Complexity: Not reported
Pretreatment: Not reported
Facility Waste Type: Not reported
Facility Waste Type 2: Not reported
Facility Waste Type 3: Not reported

RAYNE SOFTWATER OF THE VALLEY (Continued) **S101295714**

Facility Waste Type 4:	Not reported
Program:	UST
Program Category1:	TANKS
Program Category2:	Not reported
# Of Programs:	1
WDID:	913030852
Reg Measure Id:	168375
Reg Measure Type:	Unregulated
Region:	4
Order #:	Not reported
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	Not reported
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Never Active
Status Date:	02/20/2013
Effective Date:	Not reported
Expiration/Review Date:	Not reported
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	Not reported
Direction/Voice:	Passive
Enforcement Id(EID):	229121
Region:	4
Order / Resolution Number:	UNKNOWN
Enforcement Action Type:	Staff Enforcement Letter
Effective Date:	07/16/1999
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	07/16/1999
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 913030852
Description:	Level 1 enforcement letter sent 7/16/99 for overdue SAP.
Program:	UST
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

RAYNE SOFTWATER OF THE VALLEY (Continued) **S101295714**

HIST CORTESE:
Region: CORTESE
Facility County Code: 19
Reg By: LTNKA
Reg Id: 913030852

J72 **RAYNE SOFTWATER OF THE VALLEY** **CA LUST** **S103945721**
ENE **6953 CANOGA AVE** **N/A**
1/4-1/2 **CANOGA PARK, CA 91303**
0.279 mi.
1471 ft. **Site 2 of 2 in cluster J**

Relative:
Lower

Actual:
792 ft.

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: 913030852
Status: Preliminary site assessment underway
Substance: Hydrocarbons
Substance Quantity: Not reported
Local Case No: Not reported
Case Type: Groundwater
Abatement Method Used at the Site: Not reported
Global ID: T0603702091
W Global ID: W0606501096
Staff: RVJ
Local Agency: 19050
Cross Street: HART ST
Enforcement Type: Not reported
Date Leak Discovered: 8/29/2000
Date Leak First Reported: 2/12/1991
Date Leak Record Entered: 2/12/1991
Date Confirmation Began: 8/29/1990
Date Leak Stopped: 8/29/1990
Date Case Last Changed on Database: 11/30/2001
Date the Case was Closed: Not reported
How Leak Discovered: Repair Tank
How Leak Stopped: Not reported
Cause of Leak: UNK
Leak Source: UNK
Operator: KUPPERS, FRED
Water System: HABONIM CAMP GILBOA
Well Name: Not reported
Approx. Dist To Production Well (ft): 7992.578677363041176679495073
Source of Cleanup Funding: UNK
Preliminary Site Assessment Workplan Submitted: Not reported
Preliminary Site Assessment Began: 3/2/2000
Pollution Characterization Began: 2/12/1991
Remediation Plan Submitted: Not reported
Remedial Action Underway: Not reported
Post Remedial Action Monitoring Began: Not reported
Enforcement Action Date: Not reported
Historical Max MTBE Date: 1/1/1965
Hist Max MTBE Conc in Groundwater: 5.8
Hist Max MTBE Conc in Soil: Not reported
Significant Interim Remedial Action Taken: Not reported
GW Qualifier: Not reported

RAYNE SOFTWATER OF THE VALLEY (Continued) **S103945721**

Soil Qualifier:	Not reported
Organization:	Not reported
Owner Contact:	Not reported
Responsible Party:	BLANK RP
RP Address:	Not reported
Program:	LUST
Lat/Long:	34.1973696 / -1
Local Agency Staff:	PEJ
Beneficial Use:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Suspended:	Not reported
Assigned Name:	3301096-001GEN
Summary:	4/30/97 - INFORMATION LETTER SENT & FOLLOW-UP; 5/29/97 - COUNTY ASSESSOR REVIEW.; 5/30/97 - INFORMATION LETTER & SENT & FOLLOW-UP.: 9/22/99 WP FOR LIMITED SITE ASSESSMENT

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73 **COMMERCIAL PROPERTY** **CA LUST** **S118672077**
ESE **21401 VANOWEN ST** **N/A**
1/4-1/2 **CANOGA PARK, CA 91303**
0.290 mi.
1532 ft.

Relative:
Lower

Actual:
792 ft.

LUST:

Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T10000008974
Global Id:	T10000008974
Latitude:	34.19406
Longitude:	-118.59784
Status:	Open - Remediation
Status Date:	10/07/2016
Case Worker:	CET
RB Case Number:	913030989
Local Agency:	Not reported
File Location:	Not reported
Local Case Number:	Not reported
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

LUST:

Global Id:	T10000008974
Contact Type:	Regional Board Caseworker
Contact Name:	CHANDRA TYLER
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	Not reported
City:	R4 UNKNOWN
Email:	cetyler@waterboards.ca.gov
Phone Number:	Not reported

LUST:

Global Id:	T10000008974
Action Type:	RESPONSE
Date:	07/05/2016
Action:	Other Report / Document

Global Id:	T10000008974

COMMERCIAL PROPERTY (Continued) **S118672077**

Action Type: Other
Date: 05/26/2016
Action: Leak Discovery

Global Id: T10000008974
Action Type: RESPONSE
Date: 10/15/2017
Action: Other Report / Document

Global Id: T10000008974
Action Type: RESPONSE
Date: 07/13/2018
Action: Other Report / Document

Global Id: T10000008974
Action Type: RESPONSE
Date: 11/30/2018
Action: Other Report / Document

Global Id: T10000008974
Action Type: Other
Date: 05/26/2016
Action: Leak Reported

Global Id: T10000008974
Action Type: ENFORCEMENT
Date: 09/20/2016
Action: Staff Letter

Global Id: T10000008974
Action Type: ENFORCEMENT
Date: 06/16/2017
Action: Staff Letter

Global Id: T10000008974
Action Type: RESPONSE
Date: 02/15/2017
Action: Well Destruction Report

Global Id: T10000008974
Action Type: RESPONSE
Date: 11/14/2017
Action: Other Report / Document

Global Id: T10000008974
Action Type: ENFORCEMENT
Date: 10/07/2016
Action: Staff Letter

Global Id: T10000008974
Action Type: ENFORCEMENT
Date: 09/07/2016
Action: Staff Letter

Global Id: T10000008974
Action Type: ENFORCEMENT
Date: 06/01/2016

COMMERCIAL PROPERTY (Continued) **S118672077**

Action: Staff Letter

Global Id: T10000008974
Action Type: ENFORCEMENT
Date: 09/12/2017
Action: Staff Letter

Global Id: T10000008974
Action Type: RESPONSE
Date: 07/15/2017
Action: Monitoring Report - Semi-Annually

Global Id: T10000008974
Action Type: RESPONSE
Date: 08/01/2016
Action: Other Report / Document

Global Id: T10000008974
Action Type: ENFORCEMENT
Date: 05/26/2016
Action: Referral to Regional Board

Global Id: T10000008974
Action Type: ENFORCEMENT
Date: 01/24/2018
Action: Staff Letter

Global Id: T10000008974
Action Type: RESPONSE
Date: 11/30/2018
Action: Other Report / Document

Global Id: T10000008974
Action Type: RESPONSE
Date: 11/30/2018
Action: Other Report / Document

Global Id: T10000008974
Action Type: RESPONSE
Date: 09/30/2016
Action: Corrective Action Plan / Remedial Action Plan - Regulator Responded

Global Id: T10000008974
Action Type: RESPONSE
Date: 05/15/2016
Action: Corrective Action Plan / Remedial Action Plan - Regulator Responded

Global Id: T10000008974
Action Type: RESPONSE
Date: 06/06/2016
Action: Phase I Assessment Report

Global Id: T10000008974
Action Type: RESPONSE
Date: 04/13/2018
Action: Other Report / Document

COMMERCIAL PROPERTY (Continued) **S118672077**

Global Id: T10000008974
Action Type: RESPONSE
Date: 05/14/2018
Action: Other Report / Document

Global Id: T10000008974
Action Type: ENFORCEMENT
Date: 09/05/2018
Action: Staff Letter

Global Id: T10000008974
Action Type: ENFORCEMENT
Date: 08/02/2018
Action: Staff Letter

Global Id: T10000008974
Action Type: Other
Date: 05/26/2016
Action: Leak Began

Global Id: T10000008974
Action Type: RESPONSE
Date: 11/30/2018
Action: Other Report / Document

LUST:
Global Id: T10000008974
Status: Open - Active
Status Date: 05/26/2016

Global Id: T10000008974
Status: Open - Case Begin Date
Status Date: 05/26/2016

Global Id: T10000008974
Status: Open - Remediation
Status Date: 10/07/2016

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74 **CANOGA AVENUE FAC** **CA ENVIROSTOR** **S107736075**
SE **N/A**
1/4-1/2 **CANOGA PARK, CA**
0.301 mi.
1588 ft.

Relative:
Higher

Actual:
799 ft.

ENVIROSTOR:
Facility ID: 80000069
Status: Inactive - Needs Evaluation
Status Date: 07/01/2005
Site Code: Not reported
Site Type: Military Evaluation
Site Type Detailed: FUDS
Acres: Not reported
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Not reported

CANOGA AVENUE FAC (Continued) **S107736075**

Supervisor: Douglas Bautista
Division Branch: Cleanup Cypress
Assembly: 45
Senate: 27
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: DERA
Latitude: 34.19027
Longitude: -118.6
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CA99799F530700
Alias Type: Federal Facility ID
Alias Name: J09CA0103
Alias Type: INPR
Alias Name: 80000069
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

75
SSE
1/4-1/2
0.315 mi.
1663 ft.

MONTGOMERY WARDS AUTO SVC CTR
6601 OWENSMOUTH AVE
CANOGA PARK, CA 91303

CA LUST **S100927402**
CA CPS-SLIC **N/A**
CA HIST CORTESE
LA Co. Site Mitigation

Relative:
Higher

Actual:
802 ft.

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: 913030870
Status: Case Closed
Substance: Solvents
Substance Quantity: Not reported
Local Case No: Not reported
Case Type: Groundwater
Abatement Method Used at the Site: Not reported
Global ID: T0603702093
W Global ID: W0606501096

MONTGOMERY WARDS AUTO SVC CTR (Continued) **S100927402**

Staff:	SLC	
Local Agency:	19050	
Cross Street:	VICTORY BLVD	
Enforcement Type:	Not reported	
Date Leak Discovered:	Not reported	
Date Leak First Reported:		8/24/1992
Date Leak Record Entered:	9/13/1992	
Date Confirmation Began:	Not reported	
Date Leak Stopped:	Not reported	
Date Case Last Changed on Database:		10/27/1993
Date the Case was Closed:		10/23/1997
How Leak Discovered:	Not reported	
How Leak Stopped:	Not reported	
Cause of Leak:	UNK	
Leak Source:	UNK	
Operator:	Not reported	
Water System:	HABONIM CAMP GILBOA	
Well Name:	Not reported	
Approx. Dist To Production Well (ft):		5240.826206945845755689864635 1
Source of Cleanup Funding:		UNK
Preliminary Site Assessment Workplan Submitted:		Not reported
Preliminary Site Assessment Began:		Not reported
Pollution Characterization Began:		8/24/1992
Remediation Plan Submitted:		Not reported
Remedial Action Underway:		Not reported
Post Remedial Action Monitoring Began:		Not reported
Enforcement Action Date:		Not reported
Historical Max MTBE Date:		Not reported
Hist Max MTBE Conc in Groundwater:		Not reported
Hist Max MTBE Conc in Soil:		Not reported
Significant Interim Remedial Action Taken:		Not reported
GW Qualifier:	Not reported	
Soil Qualifier:	Not reported	
Organization:	Not reported	
Owner Contact:	Not reported	
Responsible Party:	BLANK RP	
RP Address:	Not reported	
Program:	SLIC	
Lat/Long:	34.1904628 / -1	
Local Agency Staff:	PEJ	
Beneficial Use:	Not reported	
Priority:	Not reported	
Cleanup Fund Id:	Not reported	
Suspended:	Not reported	
Assigned Name:	3301096-001GEN	
Summary:	Not reported	

CPS-SLIC:

Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	12/01/1998
Global Id:	SL204071489
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Lead Agency Case Number:	Not reported
Latitude:	34.2030111844444
Longitude:	-118.595956595556
Case Type:	Cleanup Program Site

MONTGOMERY WARDS AUTO SVC CTR (Continued) **S100927402**

Case Worker:	Not reported
Local Agency:	Not reported
RB Case Number:	0326
File Location:	Not reported
Potential Media Affected:	Not reported
Potential Contaminants of Concern:	Not reported
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	10/23/1997
Global Id:	T0603702093
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Lead Agency Case Number:	Not reported
Latitude:	34.1904628
Longitude:	-118.6016171
Case Type:	Cleanup Program Site
Case Worker:	SLC
Local Agency:	LOS ANGELES, CITY OF
RB Case Number:	913030870
File Location:	Not reported
Potential Media Affected:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	* Solvents
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

HIST CORTESE:

Region:	CORTESE
Facility County Code:	18
Reg By:	LTNKA
Reg Id:	913030870

LA Co. Site Mitigation:

Facility ID:	FA0019580
Status:	Not reported
Site ID:	SD0011404
Jurisdiction:	State
Case ID:	RO0011404
Abated:	Yes
Assigned To:	Not reported
Entered Date:	05/11/2004
Abated Date:	02/05/1998

K76 **CALMAT FACILITY FORMER** **CA LUST** **S103587495**
ENE **7001 DEERING AVE** **N/A**
1/4-1/2 **LOS ANGELES, CA 91303**
0.357 mi.
1887 ft. **Site 1 of 2 in cluster K**

Relative: LUST REG 4:
Lower

Region:	4
Regional Board:	04
County:	Los Angeles
Facility Id:	913030734

Actual:
792 ft.

CALMAT FACILITY FORMER (Continued) **S103587495**

Status:	Pollution Characterization	
Substance:	Gasoline	
Substance Quantity:	Not reported	
Local Case No:	Not reported	
Case Type:	Groundwater	
Abatement Method Used at the Site:		Not reported
Global ID:	T0603702079	
W Global ID:	W0606501096	
Staff:	CEC	
Local Agency:	19050	
Cross Street:	SHERMAN & VANOWEN	
Enforcement Type:	EF	
Date Leak Discovered:	8/5/1986	
Date Leak First Reported:		11/24/1987
Date Leak Record Entered:	3/31/1988	
Date Confirmation Began:	8/5/1986	
Date Leak Stopped:	8/5/1986	
Date Case Last Changed on Database:		4/9/2001
Date the Case was Closed:		Not reported
How Leak Discovered:	Repair Tank	
How Leak Stopped:	Not reported	
Cause of Leak:	Not reported	
Leak Source:	Not reported	
Operator:	ED RUIZ/GARY MINIER	
Water System:	HABONIM CAMP GILBOA	
Well Name:	Not reported	
Approx. Dist To Production Well (ft):		8179.925068550512566838303627
Source of Cleanup Funding:		Not reported
Preliminary Site Assessment Workplan Submitted:		6/3/1999
Preliminary Site Assessment Began:		3/29/2001
Pollution Characterization Began:		12/19/2001
Remediation Plan Submitted:		Not reported
Remedial Action Underway:		Not reported
Post Remedial Action Monitoring Began:		11/24/1987
Enforcement Action Date:		3/29/2001
Historical Max MTBE Date:		Not reported
Hist Max MTBE Conc in Groundwater:		Not reported
Hist Max MTBE Conc in Soil:		Not reported
Significant Interim Remedial Action Taken:		Not reported
GW Qualifier:	Not reported	
Soil Qualifier:	Not reported	
Organization:	Not reported	
Owner Contact:	Not reported	
Responsible Party:	JAY GRADY	
RP Address:	2025 E. FINANCIAL WAY	
Program:	LUST	
Lat/Long:	34.1974456 / -1	
Local Agency Staff:	PEJ	
Beneficial Use:	Not reported	
Priority:	Not reported	
Cleanup Fund Id:	Not reported	
Suspended:	Not reported	
Assigned Name:	3301096-001GEN	
Summary:	3/19/97 - INFORMATION LETTER SENT & FOLLOW-UP.; 5/27/97 - ENFORCEMENT LETTER & FOLLOW-UP.; 4/9/01 GW MONITORING & SURVEY RPT	

K77 **FORMER CALMAT FACILITY** **CA LUST** **S101295719**
ENE **7001 DEERING** **CA ENF** **N/A**
1/4-1/2 **CANOGA, CA 91303** **CA HIST CORTESE**
0.357 mi. **CA NPDES**
1887 ft. **Site 2 of 2 in cluster K** **CA CIWQS**

Relative:
Lower

Actual:
792 ft.

LUST:

Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0603702079
Global Id:	T0603702079
Latitude:	34.1974042
Longitude:	-118.5966398
Status:	Completed - Case Closed
Status Date:	04/26/2006
Case Worker:	CET
RB Case Number:	913030734
Local Agency:	LOS ANGELES, CITY OF
File Location:	Not reported
Local Case Number:	Not reported
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Diesel
Site History:	Not reported

LUST:

Global Id:	T0603702079
Contact Type:	Regional Board Caseworker
Contact Name:	CHANDRA TYLER
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	Not reported
City:	R4 UNKNOWN
Email:	cetyler@waterboards.ca.gov
Phone Number:	Not reported

Global Id:	T0603702079
Contact Type:	Local Agency Caseworker
Contact Name:	ELOY LUNA
Organization Name:	LOS ANGELES, CITY OF
Address:	200 North Main Street, Suite 1780
City:	LOS ANGELES
Email:	eloy.luna@lacity.org
Phone Number:	Not reported

LUST:

Global Id:	T0603702079
Action Type:	RESPONSE
Date:	03/26/1999
Action:	Other Report / Document

Global Id:	T0603702079
Action Type:	RESPONSE
Date:	04/30/2001
Action:	Monitoring Report - Quarterly

Global Id:	T0603702079
Action Type:	Other
Date:	08/05/1986
Action:	Leak Stopped

FORMER CALMAT FACILITY (Continued) **S101295719**

Global Id: T0603702079
Action Type: Other
Date: 11/24/1987
Action: Leak Reported

Global Id: T0603702079
Action Type: ENFORCEMENT
Date: 04/04/2000
Action: 13267 Requirement

Global Id: T0603702079
Action Type: RESPONSE
Date: 07/05/1999
Action: Other Report / Document

Global Id: T0603702079
Action Type: ENFORCEMENT
Date: 06/03/1999
Action: Staff Letter

Global Id: T0603702079
Action Type: ENFORCEMENT
Date: 01/26/1999
Action: Staff Letter

Global Id: T0603702079
Action Type: ENFORCEMENT
Date: 03/24/2006
Action: Notification - Preclosure

Global Id: T0603702079
Action Type: RESPONSE
Date: 10/15/2005
Action: Monitoring Report - Quarterly

Global Id: T0603702079
Action Type: REMEDIATION
Date: 09/01/1986
Action: Excavation

Global Id: T0603702079
Action Type: ENFORCEMENT
Date: 04/26/2006
Action: Closure/No Further Action Letter

Global Id: T0603702079
Action Type: Other
Date: 08/05/1986
Action: Leak Discovery

LUST:
Global Id: T0603702079
Status: Completed - Case Closed
Status Date: 04/26/2006

Global Id: T0603702079
Status: Open - Case Begin Date

FORMER CALMAT FACILITY (Continued) **S101295719**

Status Date: 08/05/1986

Global Id: T0603702079
Status: Open - Site Assessment
Status Date: 08/05/1986

Global Id: T0603702079
Status: Open - Site Assessment
Status Date: 06/03/1999

Global Id: T0603702079
Status: Open - Site Assessment
Status Date: 03/29/2001

Global Id: T0603702079
Status: Open - Site Assessment
Status Date: 12/19/2001

ENF:

Region:	4
Facility Id:	226182
Agency Name:	California Portland Cement
Place Type:	Facility
Place Subtype:	Not reported
Facility Type:	All other facilities
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	34.197448000000
Place Longitude:	-118.5966410000
SIC Code 1:	3273
SIC Desc 1:	Ready-Mixed Concrete
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	Not reported
Threat To Water Quality:	Not reported
Complexity:	Not reported
Pretreatment:	Not reported
Facility Waste Type:	Not reported
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	UST
Program Category1:	TANKS
Program Category2:	Not reported
# Of Programs:	1
WDID:	913030734

FORMER CALMAT FACILITY (Continued) **S101295719**

Reg Measure Id:	167540
Reg Measure Type:	Unregulated
Region:	4
Order #:	Not reported
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	Not reported
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Never Active
Status Date:	02/20/2013
Effective Date:	Not reported
Expiration/Review Date:	Not reported
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	Not reported
Direction/Voice:	Passive
Enforcement Id(EID):	235186
Region:	4
Order / Resolution Number:	NOV
Enforcement Action Type:	Notice of Violation
Effective Date:	03/29/2001
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	03/29/2001
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	NOV (2nd) sent 3/29/01 for overdue technical report - 913030734.
Description:	NOV (2nd) sent 3/29/01 for overdue technical report - 913030734.
Program:	UST
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0
Region:	4
Facility Id:	226182
Agency Name:	California Portland Cement
Place Type:	Facility
Place Subtype:	Not reported
Facility Type:	All other facilities

FORMER CALMAT FACILITY (Continued) **S101295719**

Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	34.197448000000
Place Longitude:	-118.5966410000
SIC Code 1:	3273
SIC Desc 1:	Ready-Mixed Concrete
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	Not reported
Threat To Water Quality:	Not reported
Complexity:	Not reported
Pretreatment:	Not reported
Facility Waste Type:	Not reported
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	UST
Program Category1:	TANKS
Program Category2:	Not reported
# Of Programs:	1
WDID:	913030734
Reg Measure Id:	167540
Reg Measure Type:	Unregulated
Region:	4
Order #:	Not reported
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	Not reported
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Never Active
Status Date:	02/20/2013
Effective Date:	Not reported
Expiration/Review Date:	Not reported
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	Not reported
Direction/Voice:	Passive

FORMER CALMAT FACILITY (Continued) **S101295719**

Enforcement Id(EID):	227956
Region:	4
Order / Resolution Number:	NOV
Enforcement Action Type:	Notice of Violation
Effective Date:	09/25/2000
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	03/29/2001
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	NOV sent 9/25/00 for overdue technical report - 913030734
Description:	Notice of Violation sent 9/25/00 for overdue technical report & fee title holder information. Board staff granted time extension (by phone) to 2/1/01 on 12/6/00, & followed up with a letter on 12/19/00.
Program:	UST
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

HIST CORTESE:

Region:	CORTESE
Facility County Code:	19
Reg By:	LTNKA
Reg Id:	913030734

NPDES:

Facility Status:	Active
NPDES Number:	CAS000001
Region:	4
Agency Number:	0
Regulatory Measure ID:	189599
Place ID:	Not reported
Order Number:	97-03-DWQ
WDID:	4 19I006258
Regulatory Measure Type:	Enrollee
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	04/22/1992
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	2025 E Financial Wy
Discharge Name:	CalPortland Co
Discharge City:	Glendora
Discharge State:	California
Discharge Zip:	91741
Status:	Not reported
Status Date:	Not reported
Operator Name:	Not reported

FORMER CALMAT FACILITY (Continued) **S101295719**

Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported

NPDES as of 03/2018:

NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	4
Regulatory Measure ID:	189599
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	4 19I006258
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	05/09/2008
Processed Date:	04/22/1992
Status:	Active
Status Date:	04/22/1992
Place Size:	1.2
Place Size Unit:	Acres
Contact:	John Davis
Contact Title:	Not reported
Contact Phone:	800-272-1891
Contact Phone Ext:	Not reported
Contact Email:	jdavis@calportland.com
Operator Name:	CalPortland Co
Operator Address:	2025 E Financial Wy
Operator City:	Glendora
Operator State:	California
Operator Zip:	91741
Operator Contact:	Irene Zamorano
Operator Contact Title:	Enviromental Manager
Operator Contact Phone:	626-733-3782
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	izamorano@calportland.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported

FORMER CALMAT FACILITY (Continued) **S101295719**

Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	Los Angeles River
Certifier:	John Davis
Certifier Title:	Environmental Manager
Certification Date:	21-JAN-16
Primary Sic:	3273-Ready-Mixed Concrete
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	4
Regulatory Measure ID:	189599
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	4 19I006258
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	04/22/1992
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	CalPortland Co
Discharge Address:	2025 E Financial Wy
Discharge City:	Glendora
Discharge State:	California
Discharge Zip:	91741
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported

FORMER CALMAT FACILITY (Continued) **S101295719**

Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	4 19I006258
Regulatory Measure Type:	Industrial
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported

FORMER CALMAT FACILITY (Continued) **S101295719**

Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Active
Status Date:	04/22/1992
Operator Name:	CalPortland Co
Operator Address:	2025 E Financial Wy
Operator City:	Glendora
Operator State:	California
Operator Zip:	91741

NPDES as of 03/2018:

NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	4
Regulatory Measure ID:	189599
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	4 19I006258
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	05/09/2008
Processed Date:	04/22/1992
Status:	Active
Status Date:	04/22/1992
Place Size:	1.2
Place Size Unit:	Acres
Contact:	John Davis
Contact Title:	Not reported
Contact Phone:	800-272-1891
Contact Phone Ext:	Not reported
Contact Email:	jdavis@calportland.com
Operator Name:	CalPortland Co
Operator Address:	2025 E Financial Wy
Operator City:	Glendora
Operator State:	California
Operator Zip:	91741
Operator Contact:	Irene Zamorano
Operator Contact Title:	Enviromental Manager
Operator Contact Phone:	626-733-3782
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	izamorano@calportland.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported

FORMER CALMAT FACILITY (Continued) **S101295719**

Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	Los Angeles River
Certifier:	John Davis
Certifier Title:	Environmental Manager
Certification Date:	21-JAN-16
Primary Sic:	3273-Ready-Mixed Concrete
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	4
Regulatory Measure ID:	189599
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	4 19I006258
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	04/22/1992
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	CalPortland Co
Discharge Address:	2025 E Financial Wy
Discharge City:	Glendora
Discharge State:	California
Discharge Zip:	91741
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported

FORMER CALMAT FACILITY (Continued) **S101295719**

Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

CIWQS:

Agency:	CalPortland Co
Agency Address:	2025 E Financial Wy, Glendora, CA 91741
Place/Project Type:	Industrial - Ready-Mixed Concrete

FORMER CALMAT FACILITY (Continued) **S101295719**

SIC/NAICS:	3273
Region:	4
Program:	INDSTW
Regulatory Measure Status:	Active
Regulatory Measure Type:	Storm water industrial
Order Number:	2014-0057-DWQ
WDID:	4 19I006258
NPDES Number:	CAS000001
Adoption Date:	Not reported
Effective Date:	04/22/1992
Termination Date:	Not reported
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	34.19745
Longitude:	-118.59664

L78 **J W CHARLES JACOBI** **CA LUST** **S103281967**
ESE **21341 VANOWEN ST** **CA SWEEPS UST** **N/A**
1/4-1/2 **CANOGA PARK, CA 91303**
0.358 mi.
1890 ft. **Site 1 of 2 in cluster L**

Relative:
Lower

Actual:
792 ft.

LUST REG 4:

Region:	4	
Regional Board:	04	
County:	Los Angeles	
Facility Id:	913030907	
Status:	Pollution Characterization	
Substance:	Gasoline	
Substance Quantity:	Not reported	
Local Case No:	Not reported	
Case Type:	Groundwater	
Abatement Method Used at the Site:		Not reported
Global ID:	T0603702095	
W Global ID:	W0606501096	
Staff:	CEC	
Local Agency:	19050	
Cross Street:	CANOGA AVE	
Enforcement Type:	LET	
Date Leak Discovered:	12/1/1989	
Date Leak First Reported:		10/1/1997
Date Leak Record Entered:	1/15/1998	
Date Confirmation Began:	Not reported	
Date Leak Stopped:	Not reported	
Date Case Last Changed on Database:		6/28/2002
Date the Case was Closed:		Not reported
How Leak Discovered:	Subsurface Monitoring	
How Leak Stopped:	Not reported	
Cause of Leak:	Other Cause	
Leak Source:	Tank	
Operator:	Not reported	
Water System:	HABONIM CAMP GILBOA	
Well Name:	Not reported	

J W CHARLES JACOBI (Continued) **S103281967**

Approx. Dist To Production Well (ft): 7212.796487142659990006186 1503
Source of Cleanup Funding: Tank
Preliminary Site Assessment Workplan Submitted: 10/28/1997
Preliminary Site Assessment Began: 1/23/1998
Pollution Characterization Began: 12/6/2001
Remediation Plan Submitted: Not reported
Remedial Action Underway: Not reported
Post Remedial Action Monitoring Began: 10/1/1997
Enforcement Action Date: 1/21/1999
Historical Max MTBE Date: Not reported
Hist Max MTBE Conc in Groundwater: Not reported
Hist Max MTBE Conc in Soil: 170
Significant Interim Remedial Action Taken: Not reported
GW Qualifier: Not reported
Soil Qualifier: Not reported
Organization: Not reported
Owner Contact: Not reported
Responsible Party: JOHN MOE
RP Address: 49 STEVENSEN STREET
Program: LUST
Lat/Long: 34.1939377 / -1
Local Agency Staff: PEJ
Beneficial Use: Not reported
Priority: Not reported
Cleanup Fund Id: Not reported
Suspended: Not reported
Assigned Name: 3301096-001GEN
Summary: 10/97 - WORKPLAN TO PERFORM A SITE INVESTIGATION 05/98 - SITE INVESTIGATION

SWEEPS UST:
Status: Active
Comp Number: 4944
Number: 2
Board Of Equalization: Not reported
Referral Date: 02-25-93
Action Date: 02-25-93
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: Not reported
Tank Status: Not reported
Capacity: Not reported
Active Date: Not reported
Tank Use: Not reported
STG: Not reported
Content: Not reported
Number Of Tanks: Not reported

L79 **JACOBI BUILDING MATERIALS** **CA LUST** **S103641857**
ESE **21341 VANOWEN** **CA HIST CORTESE** **N/A**
1/4-1/2 **CANOGA PARK, CA 91303**
0.358 mi.
1890 ft. **Site 2 of 2 in cluster L**

Relative:
Lower

Actual:
792 ft.

LUST:

Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0603702095
Global Id:	T0603702095
Latitude:	34.1939377
Longitude:	-118.596308
Status:	Completed - Case Closed
Status Date:	06/30/2006
Case Worker:	CET
RB Case Number:	913030907
Local Agency:	LOS ANGELES, CITY OF
File Location:	Not reported
Local Case Number:	Not reported
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

LUST:

Global Id:	T0603702095
Contact Type:	Regional Board Caseworker
Contact Name:	CHANDRA TYLER
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	Not reported
City:	R4 UNKNOWN
Email:	cetyler@waterboards.ca.gov
Phone Number:	Not reported

Global Id:	T0603702095
Contact Type:	Local Agency Caseworker
Contact Name:	TBD
Organization Name:	LOS ANGELES, CITY OF
Address:	200 N. MAIN ST. RM. 970
City:	LOS ANGELES
Email:	Not reported
Phone Number:	2134826528

LUST:

Global Id:	T0603702095
Action Type:	ENFORCEMENT
Date:	07/23/2002
Action:	Staff Letter

Global Id:	T0603702095
Action Type:	RESPONSE
Date:	02/22/2006
Action:	Request for Closure

Global Id:	T0603702095
Action Type:	RESPONSE
Date:	01/22/1998
Action:	Soil and Water Investigation Workplan

JACOBI BUILDING MATERIALS (Continued) **S103641857**

Global Id: T0603702095
Action Type: RESPONSE
Date: 09/18/2000
Action: Preliminary Site Assessment Report

Global Id: T0603702095
Action Type: ENFORCEMENT
Date: 05/31/2001
Action: Staff Letter

Global Id: T0603702095
Action Type: Other
Date: 12/01/1989
Action: Leak Discovery

Global Id: T0603702095
Action Type: Other
Date: 10/01/1997
Action: Leak Reported

Global Id: T0603702095
Action Type: ENFORCEMENT
Date: 06/09/2006
Action: Notification - Preclosure

Global Id: T0603702095
Action Type: ENFORCEMENT
Date: 06/30/2006
Action: Closure/No Further Action Letter

Global Id: T0603702095
Action Type: RESPONSE
Date: 10/28/2002
Action: Soil and Water Investigation Report

Global Id: T0603702095
Action Type: RESPONSE
Date: 02/22/2006
Action: Monitoring Report - Quarterly

Global Id: T0603702095
Action Type: ENFORCEMENT
Date: 05/03/2006
Action: Site Visit / Inspection / Sampling

LUST:
Global Id: T0603702095
Status: Completed - Case Closed
Status Date: 06/30/2006

Global Id: T0603702095
Status: Open - Case Begin Date
Status Date: 12/01/1989

Global Id: T0603702095
Status: Open - Site Assessment
Status Date: 10/28/1997

JACOBI BUILDING MATERIALS (Continued) **S103641857**

Global Id:	T0603702095
Status:	Open - Site Assessment
Status Date:	01/22/1998
Global Id:	T0603702095
Status:	Open - Site Assessment
Status Date:	01/23/1998
Global Id:	T0603702095
Status:	Open - Site Assessment
Status Date:	09/18/2000
Global Id:	T0603702095
Status:	Open - Site Assessment
Status Date:	12/06/2001
Global Id:	T0603702095
Status:	Open - Verification Monitoring
Status Date:	10/01/1997

HIST CORTESE:

Region:	CORTESE
Facility County Code:	19
Reg By:	LTNKA
Reg Id:	913030907

M80 **THE BOEING COMPANY - BUILDING 009** **CA CPS-SLIC S106838421**
SE **6620 CANOGA AVE** **CA EMI N/A**
1/4-1/2 **CANOGA PARK, CA 91303**
0.363 mi.
1918 ft. **Site 1 of 7 in cluster M**

Relative:
Lower

Actual:
793 ft.

CPS-SLIC:

Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	09/19/2005
Global Id:	SL0603777226
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Lead Agency Case Number:	Not reported
Latitude:	34.191637
Longitude:	-118.597035
Case Type:	Cleanup Program Site
Case Worker:	AMT
Local Agency:	Not reported
RB Case Number:	0237E
File Location:	Regional Board
Potential Media Affected:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Not reported
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

EMI:

Year:	1987
County Code:	19
Air Basin:	SC

THE BOEING COMPANY - BUILDING 009 (Continued) **S106838421**

Facility ID:	57531
Air District Name:	SC
SIC Code:	3764
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	4
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1990
County Code:	19
Air Basin:	SC
Facility ID:	57531
Air District Name:	SC
SIC Code:	3764
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

N81 **WORTHMAN OIL S.S. (FORMER)** **CA LUST** **S103587539**
NE **21404 SHERMAN WY** **N/A**
1/4-1/2 **LOS ANGELES, CA 91303**
0.368 mi.
1941 ft. **Site 1 of 6 in cluster N**

Relative:
Higher

Actual:
796 ft.

LUST REG 4:

Region:	4	
Regional Board:	04	
County:	Los Angeles	
Facility Id:	913030798	
Status:	Remediation Plan	
Substance:	Gasoline	
Substance Quantity:	Not reported	
Local Case No:	Not reported	
Case Type:	Groundwater	
Abatement Method Used at the Site:		Excavate and Dispose
Global ID:	T0603702085	
W Global ID:	W0606501096	
Staff:	JW	
Local Agency:	19050	
Cross Street:	CANOGA AVE	
Enforcement Type:	LET	
Date Leak Discovered:	Not reported	
Date Leak First Reported:		1/26/1988
Date Leak Record Entered:	2/5/1989	
Date Confirmation Began:	Not reported	

WORTHMAN OIL S.S. (FORMER) (Continued) **S103587539**

Date Leak Stopped:	Not reported	
Date Case Last Changed on Database:		9/15/2000
Date the Case was Closed:		Not reported
How Leak Discovered:	Subsurface Monitoring	
How Leak Stopped:	Not reported	
Cause of Leak:	UNK	
Leak Source:	Tank	
Operator:	Not reported	
Water System:	HABONIM CAMP GILBOA	
Well Name:	Not reported	
Approx. Dist To Production Well (ft):		9146.914853811501642395686903
Source of Cleanup Funding:		Tank
Preliminary Site Assessment Workplan Submitted:		12/17/1988
Preliminary Site Assessment Began:		4/18/1989
Pollution Characterization Began:		12/5/1996
Remediation Plan Submitted:		8/24/2001
Remedial Action Underway:		Not reported
Post Remedial Action Monitoring Began:		1/26/1988
Enforcement Action Date:		Not reported
Historical Max MTBE Date:		1/1/1965
Hist Max MTBE Conc in Groundwater:		2900
Hist Max MTBE Conc in Soil:		Not reported
Significant Interim Remedial Action Taken:		Yes
GW Qualifier:	Not reported	
Soil Qualifier:	Not reported	
Organization:	Not reported	
Owner Contact:	Not reported	
Responsible Party:	FINN MOLLER/PETE DAMICO	
RP Address:	5777 W. CENTURY BLVD., #1187	
Program:	LUST	
Lat/Long:	34.2010205 / -1	
Local Agency Staff:	PEJ	
Beneficial Use:	Not reported	
Priority:	Not reported	
Cleanup Fund Id:	Not reported	
Suspended:	Not reported	
Assigned Name:	3301096-001GEN	
Summary:	GROUNDWATER MONITORING REPORT NO PROP 65 NOTIFICATION. INFORMATION FROM LAFD REFERRAL CASEASSIGNED TO MYL ON 6/14/89.; 6/6/00 1ST QTR GW MON RPT 2000; 9/15/00 3RD QTR GW MON RPT 2000	

N82 **WORTHMAN OIL S.S. (FORMER)** **CA LUST** **S101295728**
NE **21404 SHERMAN WAY** **CA ENF** **N/A**
1/4-1/2 **LOS ANGELES, CA 91303** **CA HIST CORTESE**
0.368 mi.
1941 ft. **Site 2 of 6 in cluster N**

Relative: **Higher**
Actual: **796 ft.**

LUST:

Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0603702085
Global Id:	T0603702085
Latitude:	34.2010205
Longitude:	-118.5978422
Status:	Open - Remediation
Status Date:	08/06/2008
Case Worker:	JW
RB Case Number:	913030798

WORTHMAN OIL S.S. (FORMER) (Continued) **S101295728**

Local Agency: LOS ANGELES, CITY OF
File Location: Regional Board
Local Case Number: Not reported
Potential Media Affect: Aquifer used for drinking water supply
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:
Global Id: T0603702085
Contact Type: Local Agency Caseworker
Contact Name: ELOY LUNA
Organization Name: LOS ANGELES, CITY OF
Address: 200 North Main Street, Suite 1780
City: LOS ANGELES
Email: eloy.luna@lacity.org
Phone Number: Not reported

Global Id: T0603702085
Contact Type: Regional Board Caseworker
Contact Name: JIMMIE WOO
Organization Name: LOS ANGELES RWQCB (REGION 4)
Address: 320 WEST 4TH STREET, SUITE 200
City: LOS ANGELES
Email: jwoo@waterboards.ca.gov
Phone Number: 2135766600

LUST:
Global Id: T0603702085
Action Type: RESPONSE
Date: 01/02/2015
Action: Clean Up Fund - 5-Year Review Summary

Global Id: T0603702085
Action Type: RESPONSE
Date: 07/15/2015
Action: Monitoring Report - Semi-Annually

Global Id: T0603702085
Action Type: RESPONSE
Date: 07/15/2011
Action: Remedial Progress Report

Global Id: T0603702085
Action Type: RESPONSE
Date: 07/15/2011
Action: Monitoring Report - Semi-Annually

Global Id: T0603702085
Action Type: RESPONSE
Date: 12/22/2011
Action: Other Report / Document

Global Id: T0603702085
Action Type: ENFORCEMENT
Date: 08/06/2008
Action: Staff Letter

WORTHMAN OIL S.S. (FORMER) (Continued) **S101295728**

Global Id: T0603702085
Action Type: RESPONSE
Date: 07/15/2016
Action: Corrective Action Plan / Remedial Action Plan - Regulator Responded

Global Id: T0603702085
Action Type: RESPONSE
Date: 07/15/2013
Action: Monitoring Report - Semi-Annually

Global Id: T0603702085
Action Type: RESPONSE
Date: 07/15/2013
Action: Remedial Progress Report

Global Id: T0603702085
Action Type: RESPONSE
Date: 01/15/2007
Action: Monitoring Report - Quarterly

Global Id: T0603702085
Action Type: ENFORCEMENT
Date: 09/12/2013
Action: Staff Letter

Global Id: T0603702085
Action Type: RESPONSE
Date: 04/15/2013
Action: Remedial Progress Report

Global Id: T0603702085
Action Type: ENFORCEMENT
Date: 08/24/2001
Action: Staff Letter

Global Id: T0603702085
Action Type: RESPONSE
Date: 08/21/2012
Action: Soil and Water Investigation Report

Global Id: T0603702085
Action Type: RESPONSE
Date: 11/22/2013
Action: Soil and Water Investigation Workplan

Global Id: T0603702085
Action Type: RESPONSE
Date: 11/22/2013
Action: Corrective Action Plan / Remedial Action Plan

Global Id: T0603702085
Action Type: ENFORCEMENT
Date: 03/06/2017
Action: Staff Letter

Global Id: T0603702085
Action Type: RESPONSE

WORTHMAN OIL S.S. (FORMER) (Continued) **S101295728**

Date: 10/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603702085
Action Type: ENFORCEMENT
Date: 01/11/2011
Action: Staff Letter

Global Id: T0603702085
Action Type: RESPONSE
Date: 07/15/2012
Action: Remedial Progress Report

Global Id: T0603702085
Action Type: ENFORCEMENT
Date: 06/15/2009
Action: Staff Letter

Global Id: T0603702085
Action Type: ENFORCEMENT
Date: 02/10/2015
Action: Staff Letter

Global Id: T0603702085
Action Type: RESPONSE
Date: 07/15/2018
Action: Monitoring Report - Semi-Annually

Global Id: T0603702085
Action Type: RESPONSE
Date: 01/15/2018
Action: Monitoring Report - Semi-Annually

Global Id: T0603702085
Action Type: RESPONSE
Date: 04/15/2014
Action: Remedial Progress Report

Global Id: T0603702085
Action Type: RESPONSE
Date: 04/15/2015
Action: Soil and Water Investigation Report

Global Id: T0603702085
Action Type: RESPONSE
Date: 01/15/2009
Action: Monitoring Report - Quarterly

Global Id: T0603702085
Action Type: RESPONSE
Date: 01/15/2016
Action: Monitoring Report - Semi-Annually

Global Id: T0603702085
Action Type: RESPONSE
Date: 07/15/2010
Action: Monitoring Report - Semi-Annually

WORTHMAN OIL S.S. (FORMER) (Continued) **S101295728**

Global Id: T0603702085
Action Type: REMEDIATION
Date: 07/23/2012
Action: Soil Vapor Extraction (SVE)

Global Id: T0603702085
Action Type: RESPONSE
Date: 07/15/2015
Action: Remedial Progress Report

Global Id: T0603702085
Action Type: RESPONSE
Date: 07/15/2007
Action: Monitoring Report - Quarterly

Global Id: T0603702085
Action Type: RESPONSE
Date: 10/15/2007
Action: Monitoring Report - Quarterly

Global Id: T0603702085
Action Type: RESPONSE
Date: 01/15/2015
Action: Corrective Action Plan / Remedial Action Plan - Regulator Responded

Global Id: T0603702085
Action Type: RESPONSE
Date: 07/15/2017
Action: Monitoring Report - Semi-Annually

Global Id: T0603702085
Action Type: RESPONSE
Date: 07/15/2017
Action: Remedial Progress Report

Global Id: T0603702085
Action Type: ENFORCEMENT
Date: 10/28/2014
Action: Staff Letter

Global Id: T0603702085
Action Type: RESPONSE
Date: 05/08/2017
Action: Well Installation Report

Global Id: T0603702085
Action Type: Other
Date: 01/26/1988
Action: Leak Reported

Global Id: T0603702085
Action Type: RESPONSE
Date: 01/15/2015
Action: Monitoring Report - Semi-Annually

Global Id: T0603702085
Action Type: RESPONSE

WORTHMAN OIL S.S. (FORMER) (Continued) **S101295728**

Date: 04/15/2011
Action: Interim Remedial Action Plan

Global Id: T0603702085
Action Type: RESPONSE
Date: 04/15/2011
Action: Monitoring Report - Semi-Annually

Global Id: T0603702085
Action Type: RESPONSE
Date: 04/15/2011
Action: Soil and Water Investigation Workplan

Global Id: T0603702085
Action Type: RESPONSE
Date: 04/15/2007
Action: Monitoring Report - Quarterly

Global Id: T0603702085
Action Type: RESPONSE
Date: 04/15/2010
Action: Monitoring Report - Semi-Annually

Global Id: T0603702085
Action Type: RESPONSE
Date: 10/10/2011
Action: Pilot Study/ Treatability Report

Global Id: T0603702085
Action Type: RESPONSE
Date: 01/15/2009
Action: Monitoring Report - Quarterly

Global Id: T0603702085
Action Type: RESPONSE
Date: 10/15/2012
Action: Monitoring Report - Quarterly

Global Id: T0603702085
Action Type: RESPONSE
Date: 01/15/2012
Action: Monitoring Report - Quarterly

Global Id: T0603702085
Action Type: RESPONSE
Date: 07/15/2012
Action: Monitoring Report - Quarterly

Global Id: T0603702085
Action Type: RESPONSE
Date: 01/15/2013
Action: Remedial Progress Report

Global Id: T0603702085
Action Type: RESPONSE
Date: 01/15/2015
Action: Other Workplan - Regulator Responded

WORTHMAN OIL S.S. (FORMER) (Continued) **S101295728**

Global Id: T0603702085
Action Type: ENFORCEMENT
Date: 05/13/2002
Action: Staff Letter

Global Id: T0603702085
Action Type: REMEDIATION
Date: 11/28/2012
Action: Pump & Treat (P&T) Groundwater

Global Id: T0603702085
Action Type: RESPONSE
Date: 11/19/2007
Action: Soil and Water Investigation Workplan

Global Id: T0603702085
Action Type: RESPONSE
Date: 06/27/2013
Action: Clean Up Fund - 5-Year Review Summary

Global Id: T0603702085
Action Type: RESPONSE
Date: 01/15/2014
Action: Monitoring Report - Semi-Annually

Global Id: T0603702085
Action Type: RESPONSE
Date: 09/29/2017
Action: Clean Up Fund - 5-Year Review Summary

Global Id: T0603702085
Action Type: RESPONSE
Date: 09/28/2010
Action: Site Assessment Report

Global Id: T0603702085
Action Type: RESPONSE
Date: 10/15/2010
Action: Monitoring Report - Semi-Annually

Global Id: T0603702085
Action Type: RESPONSE
Date: 08/05/2010
Action: Clean Up Fund - 5-Year Review Summary

Global Id: T0603702085
Action Type: RESPONSE
Date: 01/15/2015
Action: Remedial Progress Report

Global Id: T0603702085
Action Type: RESPONSE
Date: 07/15/2014
Action: Remedial Progress Report

Global Id: T0603702085
Action Type: ENFORCEMENT

WORTHMAN OIL S.S. (FORMER) (Continued) **S101295728**

Date: 05/12/2011
Action: Staff Letter

Global Id: T0603702085
Action Type: RESPONSE
Date: 01/15/2014
Action: Remedial Progress Report

Global Id: T0603702085
Action Type: ENFORCEMENT
Date: 03/24/2015
Action: Staff Letter

Global Id: T0603702085
Action Type: ENFORCEMENT
Date: 01/15/2015
Action: Staff Letter

Global Id: T0603702085
Action Type: RESPONSE
Date: 01/15/2017
Action: Monitoring Report - Semi-Annually

Global Id: T0603702085
Action Type: RESPONSE
Date: 01/15/2011
Action: Monitoring Report - Semi-Annually

Global Id: T0603702085
Action Type: RESPONSE
Date: 07/15/2016
Action: Monitoring Report - Semi-Annually

Global Id: T0603702085
Action Type: ENFORCEMENT
Date: 05/05/2016
Action: Staff Letter

Global Id: T0603702085
Action Type: RESPONSE
Date: 07/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603702085
Action Type: RESPONSE
Date: 07/15/2014
Action: Monitoring Report - Semi-Annually

Global Id: T0603702085
Action Type: RESPONSE
Date: 04/15/2008
Action: Monitoring Report - Quarterly

LUST:
Global Id: T0603702085
Status: Open - Case Begin Date
Status Date: 01/26/1988

WORTHMAN OIL S.S. (FORMER) (Continued) **S101295728**

Global Id: T0603702085
Status: Open - Remediation
Status Date: 08/24/2001

Global Id: T0603702085
Status: Open - Remediation
Status Date: 08/06/2008

Global Id: T0603702085
Status: Open - Site Assessment
Status Date: 12/17/1988

Global Id: T0603702085
Status: Open - Site Assessment
Status Date: 04/18/1989

Global Id: T0603702085
Status: Open - Site Assessment
Status Date: 12/05/1996

Global Id: T0603702085
Status: Open - Site Assessment
Status Date: 05/01/2001

Global Id: T0603702085
Status: Open - Site Assessment
Status Date: 11/19/2007

Global Id: T0603702085
Status: Open - Verification Monitoring
Status Date: 01/26/1988

ENF:
Region: 4
Facility Id: 273032
Agency Name: Summit Energy Corporation
Place Type: Facility
Place Subtype: Not reported
Facility Type: All other facilities
Agency Type: Privately-Owned Business
Of Agencies: 1
Place Latitude: 34.201025000000
Place Longitude: -118.597801
SIC Code 1: Not reported
SIC Desc 1: Not reported
SIC Code 2: Not reported
SIC Desc 2: Not reported
SIC Code 3: Not reported
SIC Desc 3: Not reported
NAICS Code 1: Not reported
NAICS Desc 1: Not reported
NAICS Code 2: Not reported
NAICS Desc 2: Not reported
NAICS Code 3: Not reported
NAICS Desc 3: Not reported
Of Places: 1

WORTHMAN OIL S.S. (FORMER) (Continued) **S101295728**

Source Of Facility:	Reg Meas
Design Flow:	Not reported
Threat To Water Quality:	Not reported
Complexity:	Not reported
Pretreatment:	Not reported
Facility Waste Type:	Not reported
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	UST
Program Category1:	TANKS
Program Category2:	Not reported
# Of Programs:	1
WDID:	913030798
Reg Measure Id:	171977
Reg Measure Type:	Unregulated
Region:	4
Order #:	Not reported
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	Not reported
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Never Active
Status Date:	02/20/2013
Effective Date:	Not reported
Expiration/Review Date:	Not reported
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	Not reported
Direction/Voice:	Passive
Enforcement Id(EID):	248529
Region:	4
Order / Resolution Number:	NOV
Enforcement Action Type:	Notice of Violation
Effective Date:	05/13/2002
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	05/13/2002
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 913030798
Description:	NOV sent 5/13/02 for 2 overdue technical reports.
Program:	UST
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0

WORTHMAN OIL S.S. (FORMER) (Continued) **S101295728**

Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

HIST CORTESE:

Region:	CORTESE
Facility County Code:	19
Reg By:	LTNKA
Reg Id:	913030798

M83
SE
1/4-1/2
0.370 mi.
1953 ft.

MAGNOLIA SHOPPING CENTER
66206633 CANOGA AVE
CANOGA PARK, CA 91303

Site 2 of 7 in cluster M

CA HIST CORTESE **S105023060**
N/A

Relative:
Higher

Actual:
796 ft.

HIST CORTESE:

Region:	CORTESE
Facility County Code:	19
Reg By:	LTNKA
Reg Id:	2923

M84
SE
1/4-1/2
0.372 mi.
1964 ft.

AEROJET ROCKETDYNE OF DE INC
6633 CANOGA AVE
CANOGA PARK, CA 91309

Site 3 of 7 in cluster M

CA ENVIROSTOR **S101540004**
CA CPS-SLIC **N/A**
CA HIST UST
CA HIST CORTESE
CA HWP
CA NPDES
CA CIWQS

Relative:
Higher

Actual:
796 ft.

ENVIROSTOR:

Facility ID:	19370329
Status:	Refer: RCRA
Status Date:	05/05/1995
Site Code:	Not reported
Site Type:	Historical
Site Type Detailed:	* Historical
Acres:	Not reported
NPL:	NO
Regulatory Agencies:	NONE SPECIFIED
Lead Agency:	NONE SPECIFIED
Program Manager:	Not reported
Supervisor:	Referred - Not Assigned
Division Branch:	Cleanup Chatsworth
Assembly:	45
Senate:	27
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not reported
Latitude:	34.18888
Longitude:	-118.5972
APN:	NONE SPECIFIED

AEROJET ROCKETDYNE OF DE INC (Continued) **S101540004**

Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: THE BOEING CO-CANOGA PARK
Alias Type: Alternate Name
Alias Name: CAD074103771
Alias Type: EPA Identification Number
Alias Name: 110018987113
Alias Type: EPA (FRS #)
Alias Name: 19370329
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 12/14/1982
Comments: FACILITY IDENTIFIED ID FROM HWMB ISD FILES. ROUTINE INSP.A COMPLIANCE COMPANY.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 02/02/1995
Comments: NFA FOR SITE MITIGATION OPERATIONS, THIS IS A RCRA FACILITY.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

Facility ID: 71002566
Status: Refer: Other Agency
Status Date: Not reported
Site Code: Not reported
Site Type: Tiered Permit
Site Type Detailed: Tiered Permit
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Not reported
Division Branch: Cleanup Chatsworth
Assembly: 45
Senate: 27
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 34.19051
Longitude: -118.5974

AEROJET ROCKETDYNE OF DE INC (Continued) **S101540004**

APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CAD074103771
Alias Type: EPA Identification Number
Alias Name: 110018987113
Alias Type: EPA (FRS #)
Alias Name: 71002566
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

Facility ID: 80001667
Status: Refer: RWQCB
Status Date: 01/01/2008
Site Code: Not reported
Site Type: Corrective Action
Site Type Detailed: Corrective Action
Acres: 0
NPL: NO
Regulatory Agencies: RWQCB
Lead Agency: WQC
Program Manager: Not reported
Supervisor: * Unknown
Division Branch: Cleanup Chatsworth
Assembly: 45
Senate: 27
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 34.19059
Longitude: -118.5995
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: ROCKWELL INTERNATIONAL; ROCKETDYNE DIV.
Alias Type: Alternate Name
Alias Name: CAD074103771

AEROJET ROCKETDYNE OF DE INC (Continued) **S101540004**

Alias Type: EPA Identification Number
Alias Name: 110018987113
Alias Type: EPA (FRS #)
Alias Name: 19370329
Alias Type: Envirostor ID Number
Alias Name: 80001667
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Human Exposure Controlled
Completed Date: 07/24/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Human Exposure Controlled
Completed Date: 10/27/1997
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Groundwater Migration Controlled
Completed Date: 07/24/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Interim Measures Questionnaire
Completed Date: 09/13/1994
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Human Exposure Controlled
Completed Date: 03/09/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Groundwater Migration Controlled
Completed Date: 03/09/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Consent Agreement
Completed Date: 01/01/1985
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: RCRA Facility Assessment Report
Completed Date: 07/26/1991
Comments: Not reported

Completed Area Name: Sites With No Operable Unit

AEROJET ROCKETDYNE OF DE INC (Continued) **S101540004**

Completed Sub Area Name: GROUNDWATER
Completed Document Type: Interim Measures Implementation Report
Completed Date: 04/30/1991
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: GROUNDWATER
Completed Document Type: RFI Report
Completed Date: 08/17/1989
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 10/01/1985
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: SOILS
Completed Document Type: Interim Measures Workplan
Completed Date: 10/27/1997
Comments: FACILITY IS VOLUNTARILY BEGINNING SOURCE REMOVAL ACTIVITIES AS OF THIS DATE RSARACINO 19971028.14:45S

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: GROUNDWATER
Completed Document Type: RFI Workplan
Completed Date: 06/09/1989
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: GROUNDWATER
Completed Document Type: Interim Measures Workplan
Completed Date: 08/31/1990
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

CPS-SLIC:
Region: STATE
Facility Status: **Open - Remediation**
Status Date: 09/01/2017
Global Id: SL204281528
Lead Agency: LOS ANGELES RWQCB (REGION 4)
Lead Agency Case Number: Not reported
Latitude: 34.1907897679698
Longitude: -118.599128723145
Case Type: Cleanup Program Site
Case Worker: AMT

AEROJET ROCKETDYNE OF DE INC (Continued) **S101540004**

Local Agency:	Not reported
RB Case Number:	0237A
File Location:	Regional Board
Potential Media Affected:	Aquifer used for drinking water supply, Soil, Soil Vapor
Potential Contaminants of Concern:	Tetrachloroethylene (PCE), Trichloroethylene (TCE), Total Petroleum Hydrocarbons (TPH)
Site History:	The site is approximately 47-acres and was developed in the mid-1950s for the manufacture of rocket engines and related systems. Operations at the site concluded in 2014. The currently idle site contains numerous vacant industrial buildings and structures in various states of disrepair, surrounded by surface parking lots along Canoga Avenue and Victory Boulevard. Numerous environmental investigations and cleanup activities have been conducted across the Site since 1984 that have identified elevated levels of chemicals of potential concern (COPCs), including chlorinated solvents from historic manufacturing activities at the site. Soil and groundwater cleanup activities are currently ongoing at the subject site.

Click here to access the California GeoTracker records for this facility:

HIST UST:

File Number:	0002804E
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002804E.pdf
Region:	Not reported
Facility ID:	Not reported
Facility Type:	Not reported
Other Type:	Not reported
Contact Name:	Not reported
Telephone:	Not reported
Owner Name:	Not reported
Owner Address:	Not reported
Owner City,St,Zip:	Not reported
Total Tanks:	Not reported
Tank Num:	Not reported
Container Num:	Not reported
Year Installed:	Not reported
Tank Capacity:	Not reported
Tank Used for:	Not reported
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Not reported

Click here for Geo Tracker PDF:

HIST CORTESE:

Region:	CORTESE
Facility County Code:	19
Reg By:	LTNKA
Reg Id:	913030043

HWP:

EPA Id:	CAD074103771
Cleanup Status:	CLOSED
Latitude:	34.19059
Longitude:	-118.5995

AEROJET ROCKETDYNE OF DE INC (Continued) **S101540004**

Facility Type: Historical - Non-Operating
Facility Size: Not reported
Team: Not reported
Supervisor: Not reported
Site Code: Not reported
Assembly District: 45
Senate District: 27
Public Information Officer: Not reported
Public Information Officer: Not reported

Activities:

EPA Id: CAD074103771
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1
Event Description: New Operating Permit - TECHNICAL COMPLETE LETTER
Actual Date: 04/29/1983

EPA Id: CAD074103771
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1
Event Description: New Operating Permit - PUBLIC COMMENT (BEGIN)
Actual Date: 02/22/1983

EPA Id: CAD074103771
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1
Event Description: New Operating Permit - FINAL PERMIT (EXPIRES)
Actual Date: 08/12/1988

EPA Id: CAD074103771
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1
Event Description: New Operating Permit - APPLICATION PART B RECEIVED
Actual Date: 11/04/1982

EPA Id: CAD074103771
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1
Event Description: New Operating Permit - FINAL PERMIT
Actual Date: 08/12/1983

EPA Id: CAD074103771
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1
Event Description: New Operating Permit - FINAL PERMIT (EFFECTIVE)
Actual Date: 08/12/1983

EPA Id: CAD074103771
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1
Event Description: New Operating Permit - CALL-IN LETTER ISSUED
Actual Date: 05/07/1982

EPA Id: CAD074103771
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1
Event Description: New Operating Permit - APPLICATION PART A RECEIVED
Actual Date: 11/19/1980

AEROJET ROCKETDYNE OF DE INC (Continued) **S101540004**

Closure:
EPA Id: CAD074103771
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1
Event Description: Closure Final - ISSUE CLOSURE VERIFICATION
Actual Date: 06/11/1991

EPA Id: CAD074103771
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1
Event Description: Closure Final - RECEIVE CLOSURE CERTIFICATION
Actual Date: 05/29/1991

Alias:
EPA Id: CAD074103771
Facility Type: Historical - Non-Operating
Alias Type: FRS
Alias: 110018987113

EPA Id: CAD074103771
Facility Type: Historical - Non-Operating
Alias Type: Envirostor ID Number
Alias: 19370329

EPA Id: CAD074103771
Facility Type: Historical - Non-Operating
Alias Type: Alternate Name
Alias: ROCKWELL INTERNATIONAL; ROCKETDYNE DIV.

NPDES:
Facility Status: Not reported
NPDES Number: Not reported
Region: Not reported
Agency Number: Not reported
Regulatory Measure ID: Not reported
Place ID: Not reported
Order Number: Not reported
WDID: 4 19I024300
Regulatory Measure Type: Industrial
Program Type: Not reported
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: Not reported
Termination Date Of Regulatory Measure: Not reported
Expiration Date Of Regulatory Measure: Not reported
Discharge Address: Not reported
Discharge Name: Not reported
Discharge City: Not reported
Discharge State: Not reported
Discharge Zip: Not reported
Status: Terminated
Status Date: 05/08/2014
Operator Name: Aerojet Rocketdyne of DE Inc
Operator Address: 8900 Desoto Avenue
Operator City: Canoga Park
Operator State: California

AEROJET ROCKETDYNE OF DE INC (Continued) **S101540004**

Operator Zip:	91304
NPDES as of 03/2018:	
NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	4
Regulatory Measure ID:	438555
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	4 19I024300
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	04/21/2014
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	06/12/2013
Processed Date:	06/12/2013
Status:	Terminated
Status Date:	05/08/2014
Place Size:	49.5
Place Size Unit:	Acres
Contact:	Jerry Tucker
Contact Title:	Not reported
Contact Phone:	818-586-8016
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Aerojet Rocketdyne of DE Inc
Operator Address:	8900 Desoto Avenue
Operator City:	Canoga Park
Operator State:	California
Operator Zip:	91304
Operator Contact:	Jerry Tucker
Operator Contact Title:	Not reported
Operator Contact Phone:	818-586-8016
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported

AEROJET ROCKETDYNE OF DE INC (Continued) **S101540004**

Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Y
Receiving Water Name:	Los Angeles River
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	3764-Guided Missile and Space Vehicle Propulsion Units and Propulsion Unit Parts
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

CIWQS:

Agency:	Aerojet Rocketdyne of DE Inc
Agency Address:	8900 Desoto Avenue, Canoga Park, CA 91304
Place/Project Type:	Industrial - Guided Missile and Space Vehicle Propulsion Units and Propulsion Unit Parts
SIC/NAICS:	3764
Region:	4
Program:	INDSTW
Regulatory Measure Status:	Terminated
Regulatory Measure Type:	Storm water industrial
Order Number:	2014-0057-DWQ
WDID:	4 19I024300
NPDES Number:	CAS000001
Adoption Date:	Not reported
Effective Date:	06/12/2013
Termination Date:	04/21/2014
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	34.19051
Longitude:	-118.59749

M85 **SANTA SUSANA FACILITY** **CA WMUDS/SWAT** **S103441775**
SE **6633 CANOGA AVE** **CA CHMIRS** **N/A**
1/4-1/2 **CANOGA PARK ,CA, CA 91304**
0.372 mi.
1964 ft. **Site 4 of 7 in cluster M**

Relative: **Higher**

Actual: **796 ft.**

WMUDS/SWAT:

Edit Date:	Not reported
Complexity:	Category C - Facilities having no waste treatment systems, such as cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.
Primary Waste:	DOMIND
Primary Waste Type:	Hazardous/Influent or Solid Wastes that contain toxic, corrosive, ignitable or reactive substances and must be managed according to applicable DOHS standards.
Secondary Waste:	Not reported
Secondary Waste Type:	Not reported
Base Meridian:	Not reported
NPID:	Not reported
Tonnage:	0
Regional Board ID:	Not reported
Municipal Solid Waste:	False
Superorder:	False
Open To Public:	False
Waste List:	False
Agency Type:	Private
Agency Name:	ROCKWELL INTERNATIONAL CORP.
Agency Department:	Not reported
Agency Address:	6633 CANOGA AVE
Agency City,St,Zip:	CANOGA PARK ,CA 91304
Agency Contact:	Not reported
Agency Telephone:	8188844000
Land Owner Name:	Not reported
Land Owner Address:	Not reported
Land Owner City,St,Zip:	Not reported
Land Owner Contact:	Not reported
Land Owner Phone:	Not reported
Region:	4
Facility Type:	Municipal/Domestic - Facility that treats sewage or a mixture of predominantly sewage and other waste from districts, municipalities, communities, hospitals, schools, and publicly or privately owned systems (excluding individual subsurface leaching systems disposing of less than 1,000 gallons per day).
Facility Description:	Not reported
Facility Telephone:	8188844000
SWAT Facility Name:	Not reported
Primary SIC:	3764
Secondary SIC:	Not reported
Comments:	Not reported
Last Facility Editors:	Not reported
Waste Discharge System:	True
Solid Waste Assessment Test Program:	False
Toxic Pits Cleanup Act Program:	False
Resource Conservation Recovery Act:	True
Department of Defence:	False
Solid Waste Assessment Test Program:	Not reported

SANTA SUSANA FACILITY (Continued) **S103441775**

Threat to Water Quality:	Moderate Threat to Water Quality. A violation could have a major adverse impact on receiving biota, can cause aesthetic impairment to a significant human population, or render unusable a potential domestic or municipal water supply. Awsthetic impairment would include nuisance from a waste treatment facility.
Sub Chapter 15:	False
Regional Board Project Officer:	DAB
Number of WMUDS at Facility:	1
Section Range:	Not reported
RCRA Facility:	Yes
Waste Discharge Requirements:	A
Self-Monitoring Rept. Frequency:	Quarterly Submittal
Waste Discharge System ID:	4B562013001
Solid Waste Information ID:	Not reported

CHMIRS:

OES Incident Number:	15018
OES notification:	Not reported
OES Date:	8/8/1996
OES Time:	02:44:28 PM
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	YES
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	plant personnel
Containment:	Not reported
What Happened:	Not reported
Type:	VAPOR
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	1996
Agency:	rockwell intl, rocketdyne div

SANTA SUSANA FACILITY (Continued) **S103441775**

Incident Date:	0954 08 Aug 96
Admin Agency:	Not reported
Amount:	38 lbs
Contained:	NO
Site Type:	IND PLT
E Date:	Not reported
Substance:	nox
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	YES
Number of Injuries:	NO
Number of Fatalities:	NO
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	during acid neutralization a treatment chemical feed was interupted, the ph fell and nitric acid decomposed to nox. one plant operator was evacuated.

M86 **AEROJECT ROCKETDYNE OF DE INC DBA AEROJET ROCKETDY** **CA CPS-SLIC** **S105721799**
SE **6633 CANOGA AVE** **CA HIST UST** **N/A**
1/4-1/2 **CANOGA PARK, CA 91303** **CA HAZNET**
0.372 mi.
1964 ft. **Site 5 of 7 in cluster M**

Relative:
Higher

Actual:
796 ft.

SLIC REG 4:

Region:	4
Facility Status:	Remediation
SLIC:	0237A
Substance:	TPH/V
Staff:	John Geroch

HIST UST:

File Number:	0002804C
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002804C.pdf
Region:	Not reported
Facility ID:	Not reported
Facility Type:	Not reported
Other Type:	Not reported
Contact Name:	Not reported
Telephone:	Not reported
Owner Name:	Not reported
Owner Address:	Not reported
Owner City,St,Zip:	Not reported
Total Tanks:	Not reported
Tank Num:	Not reported
Container Num:	Not reported

AEROJECT ROCKETDYNE OF DE INC DBA AEROJET ROCKETDY (Continued) **S105721799**

Year Installed:	Not reported
Tank Capacity:	Not reported
Tank Used for:	Not reported
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Not reported

Click here for Geo Tracker PDF:

HAZNET:

envid:	S105721799
Year:	2014
GEPAID:	CAR000239640
Contact:	FRANK SWANSON
Telephone:	8185869194
Mailing Name:	Not reported
Mailing Address:	8900 DESOTO AVE
Mailing City,St,Zip:	CANOGA PARK, CA 91304
Gen County:	Los Angeles
TSD EPA ID:	CAD008302903
TSD County:	Los Angeles
Waste Category:	Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.005
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

envid:	S105721799
Year:	2014
GEPAID:	CAR000239640
Contact:	FRANK SWANSON
Telephone:	8185869194
Mailing Name:	Not reported
Mailing Address:	8900 DESOTO AVE
Mailing City,St,Zip:	CANOGA PARK, CA 91304
Gen County:	Los Angeles
TSD EPA ID:	CAD008302903
TSD County:	Los Angeles
Waste Category:	Metal dust (Alkaline solution (pH >= 12.5) with metals) and machining waste
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.0025
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

envid:	S105721799
Year:	2014
GEPAID:	CAR000239640
Contact:	FRANK SWANSON
Telephone:	8185869194
Mailing Name:	Not reported
Mailing Address:	8900 DESOTO AVE
Mailing City,St,Zip:	CANOGA PARK, CA 91304

AEROJECT ROCKETDYNE OF DE INC DBA AEROJET ROCKETDY (Continued) **S105721799**

Gen County: Los Angeles
TSD EPA ID: CAD008302903
TSD County: Los Angeles
Waste Category: Off-specification, aged or surplus organics
Disposal Method: Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons: 0.7215
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

envid: S105721799
Year: 2014
GEPAID: CAR000239640
Contact: FRANK SWANSON
Telephone: 8185869194
Mailing Name: Not reported
Mailing Address: 8900 DESOTO AVE
Mailing City,St,Zip: CANOGA PARK, CA 91304
Gen County: Los Angeles
TSD EPA ID: CAD008302903
TSD County: Los Angeles
Waste Category: Off-specification, aged or surplus organics
Disposal Method: Fuel Blending Prior To Energy Recovery At Another Site
Tons: 5.5975
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

envid: S105721799
Year: 2014
GEPAID: CAR000239640
Contact: FRANK SWANSON
Telephone: 8185869194
Mailing Name: Not reported
Mailing Address: 8900 DESOTO AVE
Mailing City,St,Zip: CANOGA PARK, CA 91304
Gen County: Los Angeles
TSD EPA ID: CAD008302903
TSD County: Los Angeles
Waste Category: Other organic solids
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.4765
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

Click this hyperlink while viewing on your computer to access
42 additional CA_HAZNET: record(s) in the EDR Site Report.

M87 **PRATT & WHITNEY ROCKETDYNE, INC.** **CA LUST** **S103437890**
SE **6633 CANOGA AVE** **CA EMI** **N/A**
1/4-1/2 **CANOGA PARK, CA 91303**
0.372 mi.
1964 ft. **Site 6 of 7 in cluster M**

Relative:
Higher

Actual:
796 ft.

LUST REG 4:

Region:	4	
Regional Board:	04	
County:	Los Angeles	
Facility Id:	913030043	
Status:	Remedial action (cleanup) Underway	
Substance:	Solvents	
Substance Quantity:	Not reported	
Local Case No:	Not reported	
Case Type:	Groundwater	
Abatement Method Used at the Site:		Not reported
Global ID:	T0603702070	
W Global ID:	W0606501096	
Staff:	SLC	
Local Agency:	19050	
Cross Street:	VANOWEN	
Enforcement Type:	Not reported	
Date Leak Discovered:	7/11/1990	
Date Leak First Reported:		2/28/1985
Date Leak Record Entered:	12/31/1986	
Date Confirmation Began:	Not reported	
Date Leak Stopped:	8/6/1990	
Date Case Last Changed on Database:		10/1/1998
Date the Case was Closed:		Not reported
How Leak Discovered:	Tank Closure	
How Leak Stopped:	Not reported	
Cause of Leak:	UNK	
Leak Source:	UNK	
Operator:	ROCKET DYN CNPK	
Water System:	HABONIM CAMP GILBOA	
Well Name:	Not reported	
Approx. Dist To Production Well (ft):		6086.1692056738528079704521698
Source of Cleanup Funding:		UNK
Preliminary Site Assessment Workplan Submitted:		Not reported
Preliminary Site Assessment Began:		Not reported
Pollution Characterization Began:		6/15/1988
Remediation Plan Submitted:		Not reported
Remedial Action Underway:		10/1/1998
Post Remedial Action Monitoring Began:		Not reported
Enforcement Action Date:		Not reported
Historical Max MTBE Date:		Not reported
Hist Max MTBE Conc in Groundwater:		Not reported
Hist Max MTBE Conc in Soil:		Not reported
Significant Interim Remedial Action Taken:		Yes
GW Qualifier:	Not reported	
Soil Qualifier:	Not reported	
Organization:	Not reported	
Owner Contact:	Not reported	
Responsible Party:	ROCKWELL INTERNATIONAL	
RP Address:	Not reported	
Program:	SLIC	
Lat/Long:	34.1908088 / -1	
Local Agency Staff:	PEJ	

PRATT & WHITNEY ROCKETDYNE, INC. (Continued) **S103437890**

Beneficial Use: Not reported
Priority: LOP/LOW - MINOR OR NO POTENTIAL WATER RESOURCE IMPACT
Cleanup Fund Id: Not reported
Suspended: Not reported
Assigned Name: 3301096-001GEN
Summary: INITIALLY ASSIGNED TO ANS. FILE MAY BE WITH WP IN AB1. NEW LEAK REPORTED & DISCOVERED 7/11/90. JAMES TANG HAS FILE; REFER TO SLIC#237A

EMI:

Year:	2006
County Code:	19
Air Basin:	SC
Facility ID:	800431
Air District Name:	SC
SIC Code:	3761
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1.248595580516439910
Reactive Organic Gases Tons/Yr:	.98
Carbon Monoxide Emissions Tons/Yr:	2.589
NOX - Oxides of Nitrogen Tons/Yr:	1.659
SOX - Oxides of Sulphur Tons/Yr:	.019
Particulate Matter Tons/Yr:	.263
Part. Matter 10 Micrometers and Smllr Tons/Yr:	.245275

Year:	2007
County Code:	19
Air Basin:	SC
Facility ID:	800431
Air District Name:	SC
SIC Code:	3761
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1.244120441937477244
Reactive Organic Gases Tons/Yr:	.98
Carbon Monoxide Emissions Tons/Yr:	2.589
NOX - Oxides of Nitrogen Tons/Yr:	1.659
SOX - Oxides of Sulphur Tons/Yr:	.019
Particulate Matter Tons/Yr:	.263
Part. Matter 10 Micrometers and Smllr Tons/Yr:	.245275

Year:	2009
County Code:	19
Air Basin:	SC
Facility ID:	800431
Air District Name:	SC
SIC Code:	3764
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1.03129374690153
Reactive Organic Gases Tons/Yr:	0.74801819999999997
Carbon Monoxide Emissions Tons/Yr:	1.945845
NOX - Oxides of Nitrogen Tons/Yr:	2.1766049999999999

PRATT & WHITNEY ROCKETDYNE, INC. (Continued) **S103437890**

SOX - Oxides of Sulphur Tons/Yr:	0.0212345
Particulate Matter Tons/Yr:	1.4030442189900001
Part. Matter 10 Micrometers and Smllr Tons/Yr:	1.0291725902511

Year:	2010
County Code:	19
Air Basin:	SC
Facility ID:	800431
Air District Name:	SC
SIC Code:	2865
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.74956367630194198
Reactive Organic Gases Tons/Yr:	0.46826873000000002
Carbon Monoxide Emissions Tons/Yr:	1.4796800000000001
NOX - Oxides of Nitrogen Tons/Yr:	2.0114422709999999
SOX - Oxides of Sulphur Tons/Yr:	0.01842355
Particulate Matter Tons/Yr:	1.27259652
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.93227115199999999

Year:	2011
County Code:	19
Air Basin:	SC
Facility ID:	800431
Air District Name:	SC
SIC Code:	2865
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.69113383994
Reactive Organic Gases Tons/Yr:	0.4565920335
Carbon Monoxide Emissions Tons/Yr:	1.4723
NOX - Oxides of Nitrogen Tons/Yr:	1.51318
SOX - Oxides of Sulphur Tons/Yr:	0.01535
Particulate Matter Tons/Yr:	1.2334235787
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.90393460852

Year:	2012
County Code:	19
Air Basin:	SC
Facility ID:	800431
Air District Name:	SC
SIC Code:	9999
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.75924127267
Reactive Organic Gases Tons/Yr:	0.52123514
Carbon Monoxide Emissions Tons/Yr:	1.27218
NOX - Oxides of Nitrogen Tons/Yr:	1.53844
SOX - Oxides of Sulphur Tons/Yr:	0.0108853
Particulate Matter Tons/Yr:	1.301456061
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.94505967244

Year:	2013
County Code:	19

PRATT & WHITNEY ROCKETDYNE, INC. (Continued) **S103437890**

Air Basin:	SC
Facility ID:	175124
Air District Name:	SC
SIC Code:	3761
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1.38172157
Reactive Organic Gases Tons/Yr:	0.93218121
Carbon Monoxide Emissions Tons/Yr:	0.99837
NOX - Oxides of Nitrogen Tons/Yr:	1.30233
SOX - Oxides of Sulphur Tons/Yr:	0.00869
Particulate Matter Tons/Yr:	1.243968064
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.89784646653

M88 **BOEING NORTH AMERICAN ROCKETDYNE** **SEMS-ARCHIVE** **1000273223**
SE **6633 CANOGA AVENUE** **CORRACTS** **CAD074103771**
1/4-1/2 **CANOGA PARK, CA 91303** **RCRA-TSDF**
0.372 mi. **RCRA-SQG**
1964 ft. **Site 7 of 7 in cluster M** **US FIN ASSUR**
2020 COR ACTION
Relative: **FINDS**
Higher **ECHO**
NY MANIFEST
Actual:
796 ft.

SEMS Archive:

Site ID:	901574
EPA ID:	CAD074103771
Cong District:	20
FIPS Code:	6037
FF:	N
NPL:	Not on the NPL
Non NPL Status:	NFRAP-Site does not qualify for the NPL based on existing information

SEMS Archive Detail:

Region:	9
Site ID:	901574
EPA ID:	CAD074103771
Site Name:	ROCKWELL INTL CORP
NPL:	N
FF:	N
OU:	0
Action Code:	VS
Action Name:	ARCH SITE
SEQ:	1
Start Date:	Not reported
Finish Date:	1985-10-01 00:00:00
Qual:	Not reported
Current Action Lead:	EPA Perf In-Hse

Region:	9
Site ID:	901574
EPA ID:	CAD074103771
Site Name:	ROCKWELL INTL CORP
NPL:	N
FF:	N
OU:	0
Action Code:	DS

BOEING NORTH AMERICAN ROCKETDYNE (Continued) **1000273223**

Action Name:	DISCVRY
SEQ:	1
Start Date:	1979-11-01 00:00:00
Finish Date:	1979-11-01 00:00:00
Qual:	Not reported
Current Action Lead:	EPA Perf
Region:	9
Site ID:	901574
EPA ID:	CAD074103771
Site Name:	ROCKWELL INTL CORP
NPL:	N
FF:	N
OU:	0
Action Code:	PA
Action Name:	PA
SEQ:	1
Start Date:	Not reported
Finish Date:	1985-10-01 00:00:00
Qual:	N
Current Action Lead:	EPA Perf

CORRACTS:

EPA ID:	CAD074103771
EPA Region:	9
Area Name:	ENTIRE FACILITY
Actual Date:	20030724
Action:	CA725YE - Current Human Exposures Under Control, Yes, Current Human Exposures Under Control has been verified
NAICS Code(s):	56291 Remediation Services
Original schedule date:	20030724
Schedule end date:	Not reported
EPA ID:	CAD074103771
EPA Region:	9
Area Name:	ENTIRE FACILITY
Actual Date:	20030724
Action:	CA750YE - Migration of Contaminated Groundwater under Control, Yes, Migration of Contaminated Groundwater Under Control has been verified
NAICS Code(s):	56291 Remediation Services
Original schedule date:	20030724
Schedule end date:	Not reported
EPA ID:	CAD074103771
EPA Region:	9
Area Name:	ENTIRE FACILITY
Actual Date:	20010309
Action:	CA750NO - Migration of Contaminated Groundwater under Control, Unacceptable migration of contaminated groundwater is observed or expected
NAICS Code(s):	56291 Remediation Services
Original schedule date:	20010309
Schedule end date:	Not reported

BOEING NORTH AMERICAN ROCKETDYNE (Continued) **1000273223**

EPA ID: CAD074103771
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 20010309
Action: CA725IN - Current Human Exposures Under Control, More information is needed to make a determination
NAICS Code(s): 56291
Remediation Services
Original schedule date: 20010309
Schedule end date: Not reported

EPA ID: CAD074103771
EPA Region: 9
Area Name: SOILS
Actual Date: 19971027
Action: CA600SR - Stabilization Measures Implemented, Primary measure is source removal and/or treatment
NAICS Code(s): 56291
Remediation Services
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD074103771
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19971027
Action: CA725NO - Current Human Exposures Under Control, Current human exposures are NOT under control
NAICS Code(s): 56291
Remediation Services
Original schedule date: 19971027
Schedule end date: Not reported

EPA ID: CAD074103771
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19940913
Action: CA225IN - Stabilization Measures Evaluation, This facility is not, amenable to stabilization activity because of, a lack of technical data. An evaluation has been completed, but further data is necessary to determine stabilization measures, feasibility or appropriateness. This status should be changed when data becomes available
NAICS Code(s): 56291
Remediation Services
Original schedule date: 19940913
Schedule end date: Not reported

EPA ID: CAD074103771
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19910726
Action: CA050 - RFA Completed
NAICS Code(s): 56291
Remediation Services
Original schedule date: 19910726
Schedule end date: Not reported

BOEING NORTH AMERICAN ROCKETDYNE (Continued) **1000273223**

EPA ID: CAD074103771
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19910726
Action: CA070YE - RFA Determination Of Need For An RFI, RFI is Necessary
NAICS Code(s): 56291
Remediation Services
Original schedule date: 19910726
Schedule end date: Not reported

EPA ID: CAD074103771
EPA Region: 9
Area Name: GROUNDWATER
Actual Date: 19910430
Action: CA650 - Stabilization Construction Completed
NAICS Code(s): 56291
Remediation Services
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD074103771
EPA Region: 9
Area Name: GROUNDWATER
Actual Date: 19900831
Action: CA600GW - Stabilization Measures Implemented, Groundwater extraction and treatment
NAICS Code(s): 56291
Remediation Services
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD074103771
EPA Region: 9
Area Name: GROUNDWATER
Actual Date: 19890817
Action: CA200 - RFI Approved
NAICS Code(s): 56291
Remediation Services
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD074103771
EPA Region: 9
Area Name: GROUNDWATER
Actual Date: 19890609
Action: CA150 - RFI Workplan Approved
NAICS Code(s): 56291
Remediation Services
Original schedule date: Not reported
Schedule end date: Not reported

RCRA-TSDF:
Date form received by agency: 02/28/2014
Facility name: UNITED TECHNOLOGIES CORP
Facility address: 6633 CANOGA AVE
CANOGA PARK, CA 91309
EPA ID: CAD074103771

BOEING NORTH AMERICAN ROCKETDYNE (Continued) **1000273223**

Mailing address:	FARMSPRINGS RD MAIL STOP EHS 6FS101 FARMINGTON, CT 06032
Contact:	DAVID M CURNOCK
Contact address:	FARMSPRINGS RD MAIL STOP EHS 6FS101 FARMINGTON, CT 06032
Contact country:	Not reported
Contact telephone:	603-406-7737
Contact email:	DAVID.CURNOCK@YTC.COM
EPA Region:	09
Land type:	Private
Classification:	TSDF
Description:	Handler is engaged in the treatment, storage or disposal of hazardous waste

Owner/Operator Summary:

Owner/operator name:	UNITED TECHNOLOGIES CORPORATION
Owner/operator address:	Not reported Not reported
Owner/operator country:	US
Owner/operator telephone:	Not reported
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	06/14/2013
Owner/Op end date:	Not reported

Owner/operator name:	UNITED TECHNOLOGIES CORPORATION
Owner/operator address:	ONE FINANCIAL PLAZA EHS MAIL STOP 503 UTC HARTFORD, CT 06101
Owner/operator country:	US
Owner/operator telephone:	Not reported
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	11/30/2012
Owner/Op end date:	Not reported

Owner/operator name:	UNITED TECHNOLOGIES CORP
Owner/operator address:	FARMSPRINGS RD MAIL STOP EHS 6FS101 FARMINGTON, CT 06032
Owner/operator country:	Not reported
Owner/operator telephone:	860-728-7000
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	01/30/2012
Owner/Op end date:	Not reported

Owner/operator name:	UNITED TECHNOLOGIES CORP (SEE PAGE 4A)
Owner/operator address:	Not reported

BOEING NORTH AMERICAN ROCKETDYNE (Continued) **1000273223**

Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 06/14/2013
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D003
. Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D007

BOEING NORTH AMERICAN ROCKETDYNE (Continued) **1000273223**

. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D011
. Waste name: SILVER

. Waste code: D018
. Waste name: BENZENE

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

. Waste code: D039
. Waste name: TETRACHLOROETHYLENE

. Waste code: D040
. Waste name: TRICHLOROETHYLENE

. Waste code: F001
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE, AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS

BOEING NORTH AMERICAN ROCKETDYNE (Continued) **1000273223**

CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F006
. Waste name: WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.

Historical Generators:
Date form received by agency: 06/12/2013
Site name: UNITED TECHNOLOGIES CO
Classification: Small Quantity Generator

. Waste code: 135
. Waste name: Unspecified aqueous solution

. Waste code: 181
. Waste name: Other inorganic solid waste

. Waste code: 352
. Waste name: Other organic solids

. Waste code: 512
. Waste name: Other empty containers 30 gallons or more

. Waste code: 513
. Waste name: Empty containers less than 30 gallons

. Waste code: 521
. Waste name: Drilling mud

. Waste code: 611
. Waste name: Contaminated soil from site clean-ups

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

BOEING NORTH AMERICAN ROCKETDYNE (Continued) **1000273223**

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D011
. Waste name: SILVER

. Waste code: D018
. Waste name: BENZENE

. Waste code: D039
. Waste name: TETRACHLOROETHYLENE

. Waste code: D040
. Waste name: TRICHLOROETHYLENE

. Waste code: F006
. Waste name: WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.

. Waste code: U077
. Waste name: ETHANE, 1,2-DICHLORO-

Date form received by agency: 03/16/2012
Site name: PRATT & WHITNEY ROCKETDYNE, INC
Classification: Large Quantity Generator

. Waste code: 121
. Waste name: Alkaline solution (pH >12.5) with metals (antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, molybdenum, nickel, selenium, silver, thallium, vanadium, and zinc)

. Waste code: 122
. Waste name: Alkaline solution without metals (pH > 12.5)

. Waste code: 141
. Waste name: Off-specification, aged, or surplus inorganics

. Waste code: 171
. Waste name: Metal sludge (see 121)

. Waste code: 181
. Waste name: Other inorganic solid waste

. Waste code: 212
. Waste name: Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)

. Waste code: 214
. Waste name: Unspecified solvent mixture

BOEING NORTH AMERICAN ROCKETDYNE (Continued) **1000273223**

. Waste code: 221
. Waste name: Waste oil and mixed oil

. Waste code: 222
. Waste name: Oil/water separation sludge

. Waste code: 223
. Waste name: Unspecified oil-containing waste

. Waste code: 331
. Waste name: Off-specification, aged, or surplus organics

. Waste code: 341
. Waste name: Organic liquids (nonsolvents) with halogens

. Waste code: 343
. Waste name: Unspecified organic liquid mixture

. Waste code: 352
. Waste name: Other organic solids

. Waste code: 551
. Waste name: Laboratory waste chemicals

. Waste code: 711
. Waste name: Liquids with cyanides > 1000 mg/l

. Waste code: 791
. Waste name: Liquids with pH < 2

. Waste code: 792
. Waste name: Liquids with pH < 2 with metals

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D003
. Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

BOEING NORTH AMERICAN ROCKETDYNE (Continued) **1000273223**

. Waste code: D004
. Waste name: ARSENIC

. Waste code: D005
. Waste name: BARIUM

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: D011
. Waste name: SILVER

. Waste code: D018
. Waste name: BENZENE

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

. Waste code: D039
. Waste name: TETRACHLOROETHYLENE

. Waste code: D040
. Waste name: TRICHLOROETHYLENE

. Waste code: F001
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE, AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS

BOEING NORTH AMERICAN ROCKETDYNE (Continued) **1000273223**

CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F006
. Waste name: WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.

. Waste code: U077
. Waste name: ETHANE, 1,2-DICHLORO-

Date form received by agency: 06/17/2010
Site name: PRATT & WHITNEY ROCKETDYNE, INC.
Classification: Large Quantity Generator

. Waste code: 122
. Waste name: Alkaline solution without metals (pH > 12.5)

. Waste code: 141
. Waste name: Off-specification, aged, or surplus inorganics

. Waste code: 171
. Waste name: Metal sludge (see 121)

. Waste code: 181
. Waste name: Other inorganic solid waste

. Waste code: 214
. Waste name: Unspecified solvent mixture

. Waste code: 331
. Waste name: Off-specification, aged, or surplus organics

. Waste code: 341
. Waste name: Organic liquids (nonsolvents) with halogens

. Waste code: 343
. Waste name: Unspecified organic liquid mixture

. Waste code: 352
. Waste name: Other organic solids

BOEING NORTH AMERICAN ROCKETDYNE (Continued) **1000273223**

. Waste code: 551
. Waste name: Laboratory waste chemicals

. Waste code: 711
. Waste name: Liquids with cyanides > 1000 mg/l

. Waste code: 791
. Waste name: Liquids with pH < 2

. Waste code: 792
. Waste name: Liquids with pH < 2 with metals

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D003
. Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

. Waste code: D004
. Waste name: ARSENIC

. Waste code: D005
. Waste name: BARIUM

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D011
. Waste name: SILVER

. Waste code: D018
. Waste name: BENZENE

. Waste code: D021
. Waste name: CHLOROBENZENE

BOEING NORTH AMERICAN ROCKETDYNE (Continued) **1000273223**

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

. Waste code: D040
. Waste name: TRICHLOROETHYLENE

. Waste code: F001
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE, AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F006
. Waste name: WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.

Date form received by agency: 02/04/2008
Site name: CANOGA FACILITY
Classification: Large Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET,

BOEING NORTH AMERICAN ROCKETDYNE (Continued) **1000273223**

WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D003
. Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: D011
. Waste name: SILVER

. Waste code: D018
. Waste name: BENZENE

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

. Waste code: F001
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE, AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND

BOEING NORTH AMERICAN ROCKETDYNE (Continued) **1000273223**

SPENT SOLVENT MIXTURES.

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F006
. Waste name: WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.

. Waste code: U134
. Waste name: HYDROFLUORIC ACID (C,T)

. Waste code: U213
. Waste name: FURAN, TETRAHYDRO-(I)

. Waste code: U223
. Waste name: BENZENE, 1,3-DIISOCYANATOMETHYL- (R,T)

Date form received by agency: 02/20/2006
Site name: THE BOEING COMPANY - CANOGA FACILITY
Classification: Large Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A

BOEING NORTH AMERICAN ROCKETDYNE (Continued) **1000273223**

CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D003
. Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

. Waste code: D004
. Waste name: ARSENIC

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: D011
. Waste name: SILVER

. Waste code: D018
. Waste name: BENZENE

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

. Waste code: D039
. Waste name: TETRACHLOROETHYLENE

. Waste code: F001
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE, AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

BOEING NORTH AMERICAN ROCKETDYNE (Continued) **1000273223**

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F006
. Waste name: WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.

. Waste code: P029
. Waste name: COPPER CYANIDE

. Waste code: P098
. Waste name: POTASSIUM CYANIDE

. Waste code: P104
. Waste name: SILVER CYANIDE

. Waste code: P106
. Waste name: SODIUM CYANIDE

. Waste code: P121
. Waste name: ZINC CYANIDE

. Waste code: U151
. Waste name: MERCURY

Date form received by agency: 08/10/2005
Site name: PRATT AND WHITNEY ROCKETDYNE INC
Classification: Large Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET,

BOEING NORTH AMERICAN ROCKETDYNE (Continued) **1000273223**

WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D003
. Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: D011
. Waste name: SILVER

. Waste code: D018
. Waste name: BENZENE

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

. Waste code: F001
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE, AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING,

BOEING NORTH AMERICAN ROCKETDYNE (Continued) **1000273223**

BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F006
. Waste name: WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.

Date form received by agency: 08/10/2005
Site name: PRATT AND WHITNEY ROCKETDYNE INC
Classification: Large Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

BOEING NORTH AMERICAN ROCKETDYNE (Continued) **1000273223**

. Waste code: D003
. Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: D011
. Waste name: SILVER

. Waste code: D018
. Waste name: BENZENE

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

. Waste code: F001
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE, AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR

BOEING NORTH AMERICAN ROCKETDYNE (Continued) **1000273223**

MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F006
. Waste name: WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.

Date form received by agency: 02/26/2004
Site name: THE BOEING COMPANY - CANOGA
Classification: Large Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D003
. Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

. Waste code: D005
. Waste name: BARIUM

. Waste code: D007
. Waste name: CHROMIUM

BOEING NORTH AMERICAN ROCKETDYNE (Continued) **1000273223**

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: D011
. Waste name: SILVER

. Waste code: D018
. Waste name: BENZENE

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

. Waste code: D039
. Waste name: TETRACHLOROETHYLENE

. Waste code: F001
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE, AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS

BOEING NORTH AMERICAN ROCKETDYNE (Continued) **1000273223**

LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F006
. Waste name: WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.

. Waste code: F007
. Waste name: SPENT CYANIDE PLATING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS

. Waste code: LABP
. Waste name: LAB PACK

. Waste code: U151
. Waste name: MERCURY

Date form received by agency: 02/26/2002
Site name: THE BOEING COMPANY - CANOGA FACILITY
Classification: Large Quantity Generator

. Waste code: 132
. Waste name: Aqueous solution w/metals (< restricted levels and see waste code 121 for a list of metals)

. Waste code: 171
. Waste name: Metal sludge (see 121)

. Waste code: 711
. Waste name: Liquids with cyanides > 1000 mg/l

. Waste code: 723
. Waste name: Liquids with chromium (VI) > 500 mg/l

. Waste code: 728
. Waste name: Liquids with thallium > 130 mg/l

. Waste code: 792
. Waste name: Liquids with pH < 2 with metals

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN

BOEING NORTH AMERICAN ROCKETDYNE (Continued) **1000273223**

OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D003
. Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

. Waste code: D005
. Waste name: BARIUM

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: D011
. Waste name: SILVER

. Waste code: D018
. Waste name: BENZENE

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

. Waste code: F001
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE, AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

BOEING NORTH AMERICAN ROCKETDYNE (Continued) **1000273223**

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F006
. Waste name: WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.

. Waste code: F007
. Waste name: SPENT CYANIDE PLATING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS

. Waste code: LABP
. Waste name: LAB PACK

Date form received by agency: 10/12/2000
Site name: BOEING COMPANY-CANOGA PARK
Classification: Large Quantity Generator

Date form received by agency: 03/04/1999
Site name: BOEING NORTH AMERICAN, INC. - CANOGA
Classification: Large Quantity Generator

Date form received by agency: 12/10/1996
Site name: THE BOEING CO CANOGA PARK
Classification: Large Quantity Generator

. Waste code: D000
. Waste name: Not Defined

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE

BOEING NORTH AMERICAN ROCKETDYNE (Continued) **1000273223**

MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D003
. Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: D011
. Waste name: SILVER

. Waste code: D018
. Waste name: BENZENE

. Waste code: D019
. Waste name: CARBON TETRACHLORIDE

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

. Waste code: F001
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE, AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE,

BOEING NORTH AMERICAN ROCKETDYNE (Continued) **1000273223**

ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F006
. Waste name: WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.

. Waste code: F007
. Waste name: SPENT CYANIDE PLATING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS

. Waste code: F008
. Waste name: PLATING BATH RESIDUES FROM THE BOTTOM OF PLATING BATHS FROM ELECTROPLATING OPERATIONS WHERE CYANIDES ARE USED IN THE PROCESS.

. Waste code: F009
. Waste name: SPENT STRIPPING AND CLEANING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS WHERE CYANIDES ARE USED IN THE PROCESS.

. Waste code: P015
. Waste name: BERYLLIUM

. Waste code: U021
. Waste name: BENZIDINE

Date form received by agency: 09/01/1996
Site name: THE BOEING CO CANOGA PARK
Classification: Large Quantity Generator

BOEING NORTH AMERICAN ROCKETDYNE (Continued) **1000273223**

Date form received by agency: 02/29/1996
Site name: ROCKWELL-ROCKETDYNE DIV. - CANOGA
Classification: Large Quantity Generator

Date form received by agency: 03/31/1994
Site name: ROCKWELL INTERNATIONAL
Classification: Large Quantity Generator

Date form received by agency: 02/28/1992
Site name: ROCKWELL INTERNATIONAL CORP. ROCKETDYNE
Classification: Large Quantity Generator

Date form received by agency: 04/30/1990
Site name: ROCKWELL INTL CORP/ROCKETDYNE DIV CANOGA
Classification: Large Quantity Generator

Corrective Action Summary:

Event date: 10/01/1985
Event: LEAD AGENCY DETERMINATION

Event date: 10/01/1985
Event: PA OR CERCLA INSPECTION

Event date: 10/01/1985
Event: CA PRIORITIZATION-HIGH CA PRIORITY

Event date: 10/01/1985
Event: NCAPS RANKING/PRIORITY

Event date: 01/01/1989
Event: INVESTIGATION IMPOSITION

Event date: 06/09/1989
Event: INVESTIGATION WORKPLAN APPROVED

Event date: 08/17/1989
Event: INVESTIGATION COMPLETE

Event date: 08/31/1990
Event: STABILIZATION/INTERIM MEASURES DECISION-GROUNDWATER EXTRACTION & TREATMENT

Event date: 04/30/1991
Event: RELEASE TO GW CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE

Event date: 04/30/1991
Event: STABILIZATION CONSTRUCTION COMPLETED

Event date: 07/26/1991
Event: RFA COMPLETED-ASSESSMENT WAS A RFA

Event date: 07/26/1991
Event: RFA COMPLETED

Event date: 07/26/1991
Event: DETERMINATION OF NEED FOR AN INVESTIGATION-INVESTIGATION IS NECESSARY

BOEING NORTH AMERICAN ROCKETDYNE (Continued) **1000273223**

Event date: 10/31/1991
Event: DEFERRAL TO ANOTHER AGENCY

Event date: 09/13/1994
Event: STABILIZATION MEASURES EVALUATION-FURTHER INVESTIGATION NECESSARY

Event date: 09/13/1994
Event: STABILIZATION MEASURES EVALUATION-FURTHER INVESTIGATION NECESSARY

Event date: 10/03/1994
Event: CA PRIORITIZATION-MEDIUM CA PRIORITY

Event date: 10/27/1997
Event: STABILIZATION/INTERIM MEASURES DECISION-PRIMARY MEAS IS SOURCE REMOVL &/OR TRT

Event date: 10/27/1997
Event: RELEASE TO GW CONTROLLED DETERMINATION-FACILITY DOES NOT MEET DEFINITION

Event date: 10/27/1997
Event: HUMAN EXPOSURES CONTROLLED DETERMINATION-FACILITY DOES NOT MEET DEFINITION

Event date: 10/27/1997
Event: REFERRED TO A NON-RCRA AUTHORITY

Event date: 10/27/1997
Event: HUMAN EXPOSURES CONTROLLED DETERMINATION-FACILITY DOES NOT MEET DEFINITION

Event date: 03/09/2001
Event: RELEASE TO GW CONTROLLED DETERMINATION-FACILITY DOES NOT MEET DEFINITION

Event date: 03/09/2001
Event: RELEASE TO GW CONTROLLED DETERMINATION-FACILITY DOES NOT MEET DEFINITION

Event date: 03/09/2001
Event: HUMAN EXPOSURES CONTROLLED DETERMINATION-MORE INFORMATION NEEDED

Event date: 03/09/2001
Event: HUMAN EXPOSURES CONTROLLED DETERMINATION-MORE INFORMATION NEEDED

Event date: 07/24/2003
Event: HUMAN EXPOSURES CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE

Event date: 07/24/2003
Event: HUMAN EXPOSURES CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE

Event date: 07/24/2003
Event: RELEASE TO GW CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE

Event date: 07/24/2003

BOEING NORTH AMERICAN ROCKETDYNE (Continued) **1000273223**

Event: RELEASE TO GW CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE

Event date: Not reported
Event: REEVALUATE IN FY

Facility Has Received Notices of Violations:
Regulation violated: FR - 264.140-150.H
Area of violation: TSD - Financial Requirements
Date violation determined: 04/09/1992
Date achieved compliance: 04/30/1993
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 268 ALL
Area of violation: LDR - General
Date violation determined: 03/13/1990
Date achieved compliance: 03/31/1991
Violation lead agency: EPA
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 12/27/1990
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: 54400
Paid penalty amount: 48000

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 03/13/1990
Date achieved compliance: 03/31/1991
Violation lead agency: EPA
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 12/27/1990
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: 54400
Paid penalty amount: 48000

Regulation violated: FR - 268.7
Area of violation: LDR - General
Date violation determined: 03/13/1990
Date achieved compliance: 03/31/1991
Violation lead agency: EPA
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 12/27/1990
Enf. disposition status: Not reported
Enf. disp. status date: Not reported

BOEING NORTH AMERICAN ROCKETDYNE (Continued) **1000273223**

Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: 54400
Paid penalty amount: 48000

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 03/13/1990
Date achieved compliance: 03/31/1991
Violation lead agency: EPA
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 07/26/1990
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.70-77.E
Area of violation: TSD - General
Date violation determined: 03/13/1990
Date achieved compliance: 03/31/1991
Violation lead agency: EPA
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 07/26/1990
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.70-77.E
Area of violation: TSD - General
Date violation determined: 03/13/1990
Date achieved compliance: 03/31/1991
Violation lead agency: EPA
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 12/27/1990
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: 54400
Paid penalty amount: 48000

Regulation violated: FR - 268 ALL
Area of violation: LDR - General
Date violation determined: 03/13/1990
Date achieved compliance: 03/31/1991
Violation lead agency: EPA
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 07/26/1990
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA

BOEING NORTH AMERICAN ROCKETDYNE (Continued) **1000273223**

Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 268.7
Area of violation: LDR - General
Date violation determined: 03/13/1990
Date achieved compliance: 03/31/1991
Violation lead agency: EPA
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 07/26/1990
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.140-150.H
Area of violation: TSD - Financial Requirements
Date violation determined: 01/29/1990
Date achieved compliance: 03/13/1990
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 01/29/1990
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 01/25/1990
Date achieved compliance: 03/31/1991
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 01/25/1990
Date achieved compliance: 03/31/1991
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 02/01/1990
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported

BOEING NORTH AMERICAN ROCKETDYNE (Continued) **1000273223**

Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 268 ALL
Area of violation: LDR - General
Date violation determined: 07/06/1988
Date achieved compliance: 11/21/1988
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.110-120.G
Area of violation: TSD - Closure/Post-Closure
Date violation determined: 07/06/1988
Date achieved compliance: 11/21/1988
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 08/18/1988
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 268.7
Area of violation: LDR - General
Date violation determined: 07/06/1988
Date achieved compliance: 11/21/1988
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.70-77.E
Area of violation: TSD - General
Date violation determined: 07/06/1988
Date achieved compliance: 11/21/1988
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 08/18/1988
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported

BOEING NORTH AMERICAN ROCKETDYNE (Continued) **1000273223**

Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 07/06/1988
Date achieved compliance: 11/21/1988
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 08/18/1988
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 09/03/2008
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 07/19/2005
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: Local

Evaluation date: 11/23/1998
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 05/29/1996
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 02/28/1996
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 04/09/1992
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: 04/30/1993
Evaluation lead agency: EPA Contractor/Grantee

Evaluation date: 01/29/1992
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported

BOEING NORTH AMERICAN ROCKETDYNE (Continued) **1000273223**

Evaluation lead agency: State

Evaluation date: 03/13/1990
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 03/31/1991
Evaluation lead agency: EPA

Evaluation date: 03/13/1990
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: LDR - General
Date achieved compliance: 03/31/1991
Evaluation lead agency: EPA

Evaluation date: 01/29/1990
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 01/29/1990
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: 03/13/1990
Evaluation lead agency: State

Evaluation date: 01/25/1990
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 03/31/1991
Evaluation lead agency: State

Evaluation date: 08/10/1988
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 07/06/1988
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 11/21/1988
Evaluation lead agency: State

Evaluation date: 07/06/1988
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - Closure/Post-Closure
Date achieved compliance: 11/21/1988
Evaluation lead agency: State

Evaluation date: 07/06/1988
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: LDR - General
Date achieved compliance: 11/21/1988
Evaluation lead agency: State

US FIN ASSUR:
EPA ID: CAD074103771

BOEING NORTH AMERICAN ROCKETDYNE (Continued) **1000273223**

County: Not reported
Mechanism type: C
Mechanism Type Description: CORPORATE GUARANTEE
Cost estimate: 10424817
Face value: 246000000
Effective date: 2008-09-29 00:00:00
Provider: PRATT & WHITNEY ROCKETDYNE, INC.
EPA region: 9

EPA ID: CAD074103771
County: Not reported
Mechanism type: P
Mechanism Type Description: TRUST FUND (PAY-IN-TRUST)
Cost estimate: 10248357
Face value: 10248357
Effective date: 2009-05-08 00:00:00
Provider: UNION BANK
EPA region: 9

EPA ID: CAD074103771
County: Not reported
Mechanism type: B
Mechanism Type Description: SURETY BOND GUARANTEEING PAYMENTS TO A TRUST FUND
Cost estimate: 10248357
Face value: 10248357
Effective date: 2009-04-24 00:00:00
Provider: LIBERTY MUTUAL INSURANCE COMPANY
EPA region: 9

2020 COR ACTION:
EPA ID: CAD074103771
Region: 9
Action: Not reported

FINDS:

Registry ID: 110002425199

Environmental Interest/Information System
NCDB (National Compliance Data Base) supports implementation of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and the Toxic Substances Control Act (TSCA). The system tracks inspections in regions and states with cooperative agreements, enforcement actions, and settlements.

AIR EMISSIONS CLASSIFICATION UNKNOWN

California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

US EPA TRIS (Toxics Release Inventory System) contains information from facilities on the amounts of over 300 listed toxic chemicals that these facilities release directly to air, water, land, or that are transported off-site.

BOEING NORTH AMERICAN ROCKETDYNE (Continued) **1000273223**

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

HAZARDOUS AIR POLLUTANT MAJOR

STATE MASTER

HAZARDOUS WASTE BIENNIAL REPORTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000273223
Registry ID:	110002425199
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110002425199

NY MANIFEST:

Country:	USA
EPA ID:	CAD074103771
Facility Status:	Not reported
Location Address 1:	6633 CANOGA PARK AVE
Code:	BP
Location Address 2:	Not reported
Total Tanks:	Not reported
Location City:	CANOGAPARK
Location State:	CA
Location Zip:	91304
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	CAD074103771
Mailing Name:	ROCKWELL INTERNATIONAL
Mailing Contact:	FRANKLINR SWANSON
Mailing Address 1:	6633 CANOGA PARK AVE
Mailing Address 2:	Not reported
Mailing City:	CANOGA PARK
Mailing State:	CA
Mailing Zip:	91304
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	8188569194

NY MANIFEST:

Document ID:	NYB4163229
Manifest Status:	C
seq:	Not reported
Year:	1994
Trans1 State ID:	10742PNY
Trans2 State ID:	Not reported
Generator Ship Date:	07/11/1994

BOEING NORTH AMERICAN ROCKETDYNE (Continued) **1000273223**

Trans1 Recv Date:	07/11/1994
Trans2 Recv Date:	/ /
TSD Site Recv Date:	07/27/1994
Part A Recv Date:	07/28/1994
Part B Recv Date:	08/05/1994
Generator EPA ID:	CAD074103771
Trans1 EPA ID:	NYD980769947
Trans2 EPA ID:	Not reported
TSDF ID 1:	NYD000632372
TSDF ID 2:	Not reported
Manifest Tracking Number:	Not reported
Import Indicator:	Not reported
Export Indicator:	Not reported
Discr Quantity Indicator:	Not reported
Discr Type Indicator:	Not reported
Discr Residue Indicator:	Not reported
Discr Partial Reject Indicator:	Not reported
Discr Full Reject Indicator:	Not reported
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	Not reported
Waste Code:	D002 - NON-LISTED CORROSIVE WASTES
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	00010
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	00020
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100

Click this hyperlink while viewing on your computer to access
-1 additional NY MANIFEST: record(s) in the EDR Site Report.

N89
NE
1/4-1/2
0.380 mi.
2009 ft.

CHEVRON #20-2018
21403 SHERMAN WAY
CANOGA PARK, CA 91303

Site 3 of 6 in cluster N

CA LUST **S101583912**
CA FID UST **N/A**

Relative:
Higher

Actual:
797 ft.

LUST:

Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0603742630
Global Id:	T0603742630
Latitude:	34.201031
Longitude:	-118.598216
Status:	Completed - Case Closed
Status Date:	07/12/2012
Case Worker:	MT
RB Case Number:	913030970
Local Agency:	LOS ANGELES, CITY OF
File Location:	Regional Board
Local Case Number:	09452
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Other Solvent or Non-Petroleum Hydrocarbon
Site History:	Not reported

LUST:

Global Id:	T0603742630
Contact Type:	Local Agency Caseworker
Contact Name:	ELOY LUNA
Organization Name:	LOS ANGELES, CITY OF
Address:	200 North Main Street, Suite 1780
City:	LOS ANGELES
Email:	eloy.luna@lacity.org
Phone Number:	Not reported

Global Id:	T0603742630
Contact Type:	Regional Board Caseworker
Contact Name:	MARYAM TAIDY
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	320 W. 4TH ST., SUITE 200
City:	LOS ANGELES
Email:	mtaidy@waterboards.ca.gov
Phone Number:	2135766741

LUST:

Global Id:	T0603742630
Action Type:	ENFORCEMENT
Date:	07/12/2012
Action:	Closure/No Further Action Letter

Global Id:	T0603742630
Action Type:	ENFORCEMENT
Date:	07/12/2012
Action:	Closure/No Further Action Letter

Global Id:	T0603742630
Action Type:	RESPONSE
Date:	08/05/2006
Action:	Other Report / Document

CHEVRON #20-2018 (Continued) **S101583912**

Global Id: T0603742630
Action Type: RESPONSE
Date: 07/15/2011
Action: Monitoring Report - Quarterly

Global Id: T0603742630
Action Type: RESPONSE
Date: 05/17/2011
Action: Request for Closure

Global Id: T0603742630
Action Type: RESPONSE
Date: 06/28/2010
Action: Site Assessment Report

Global Id: T0603742630
Action Type: Other
Date: 06/11/2004
Action: Leak Reported

Global Id: T0603742630
Action Type: ENFORCEMENT
Date: 06/15/2009
Action: Staff Letter

Global Id: T0603742630
Action Type: RESPONSE
Date: 07/15/2010
Action: Monitoring Report - Quarterly

Global Id: T0603742630
Action Type: RESPONSE
Date: 04/15/2011
Action: Monitoring Report - Quarterly

Global Id: T0603742630
Action Type: RESPONSE
Date: 10/15/2011
Action: Monitoring Report - Quarterly

Global Id: T0603742630
Action Type: RESPONSE
Date: 10/12/2012
Action: Well Destruction Report

Global Id: T0603742630
Action Type: ENFORCEMENT
Date: 06/11/2012
Action: Notification - Preclosure

Global Id: T0603742630
Action Type: Other
Date: 06/11/2004
Action: Leak Discovery

Global Id: T0603742630
Action Type: RESPONSE

CHEVRON #20-2018 (Continued) **S101583912**

Date: 10/15/2010
Action: Monitoring Report - Quarterly

Global Id: T0603742630
Action Type: RESPONSE
Date: 06/18/2008
Action: Soil and Water Investigation Workplan

Global Id: T0603742630
Action Type: RESPONSE
Date: 01/15/2011
Action: Monitoring Report - Quarterly

Global Id: T0603742630
Action Type: ENFORCEMENT
Date: 06/06/2006
Action: Staff Letter

Global Id: T0603742630
Action Type: RESPONSE
Date: 01/15/2012
Action: Monitoring Report - Semi-Annually

LUST:
Global Id: T0603742630
Status: Completed - Case Closed
Status Date: 07/12/2012

Global Id: T0603742630
Status: Open - Case Begin Date
Status Date: 06/11/2004

Global Id: T0603742630
Status: Open - Site Assessment
Status Date: 06/11/2004

Global Id: T0603742630
Status: Open - Site Assessment
Status Date: 06/18/2008

CA FID UST:
Facility ID: 19007277
Regulated By: UTNKA
Regulated ID: Not reported
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 8183462420
Mail To: Not reported
Mailing Address: 21403 SHERMAN WAY
Mailing Address 2: Not reported
Mailing City,St,Zip: CANOGA PARK 913030000
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported

CHEVRON #20-2018 (Continued) **S101583912**

EPA ID: Not reported
Comments: Not reported
Status: Active

N90 **EXXON #7-3830** **CA LUST S101295727**
NE **21401 SHERMAN WY** **CA HIST CORTESE N/A**
1/4-1/2 **CANOGA PARK, CA 91303**
0.383 mi.
2024 ft. **Site 4 of 6 in cluster N**

Relative:
Higher

Actual:
797 ft.

LUST:
Lead Agency: LOS ANGELES RWQCB (REGION 4)
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0603702077
Global Id: T0603702077
Latitude: 34.2010474
Longitude: -118.597741
Status: Completed - Case Closed
Status Date: 12/05/1996
Case Worker: YR
RB Case Number: 913030707
Local Agency: LOS ANGELES, CITY OF
File Location: Not reported
Local Case Number: Not reported
Potential Media Affect: Aquifer used for drinking water supply
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:
Global Id: T0603702077
Contact Type: Local Agency Caseworker
Contact Name: ELOY LUNA
Organization Name: LOS ANGELES, CITY OF
Address: 200 North Main Street, Suite 1780
City: LOS ANGELES
Email: eloy.luna@lacity.org
Phone Number: Not reported

Global Id: T0603702077
Contact Type: Regional Board Caseworker
Contact Name: YUE RONG
Organization Name: LOS ANGELES RWQCB (REGION 4)
Address: 320 W. 4TH ST., SUITE 200
City: Los Angeles
Email: yrong@waterboards.ca.gov
Phone Number: Not reported

LUST:
Global Id: T0603702077
Action Type: Other
Date: 05/04/1989
Action: Leak Reported

LUST:
Global Id: T0603702077
Status: Completed - Case Closed
Status Date: 12/05/1996

EXXON #7-3830 (Continued) **S101295727**

Global Id: T0603702077
Status: Open - Case Begin Date
Status Date: 05/04/1989

Global Id: T0603702077
Status: Open - Site Assessment
Status Date: 06/08/1989

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: 913030707
Status: Case Closed
Substance: Gasoline
Substance Quantity: Not reported
Local Case No: Not reported
Case Type: Groundwater
Abatement Method Used at the Site: EDFP
Global ID: T0603702077
W Global ID: W0606501096
Staff: UNK
Local Agency: 19050
Cross Street: CANOGA AVE
Enforcement Type: Not reported
Date Leak Discovered: Not reported
Date Leak First Reported: 5/4/1989
Date Leak Record Entered: 6/9/1989
Date Confirmation Began: Not reported
Date Leak Stopped: Not reported
Date Case Last Changed on Database: 4/18/1997
Date the Case was Closed: 12/5/1996
How Leak Discovered: Not reported
How Leak Stopped: Not reported
Cause of Leak: Not reported
Leak Source: Not reported
Operator: Not reported
Water System: HABONIM CAMP GILBOA
Well Name: Not reported
Approx. Dist To Production Well (ft): 9224.990473220945129206104021
Source of Cleanup Funding: Not reported
Preliminary Site Assessment Workplan Submitted: Not reported
Preliminary Site Assessment Began: Not reported
Pollution Characterization Began: 6/8/1989
Remediation Plan Submitted: Not reported
Remedial Action Underway: Not reported
Post Remedial Action Monitoring Began: Not reported
Enforcement Action Date: Not reported
Historical Max MTBE Date: Not reported
Hist Max MTBE Conc in Groundwater: Not reported
Hist Max MTBE Conc in Soil: Not reported
Significant Interim Remedial Action Taken: Yes
GW Qualifier: Not reported
Soil Qualifier: Not reported
Organization: Not reported
Owner Contact: Not reported

EXXON #7-3830 (Continued) **S101295727**

Responsible Party: EXXON COMPANY, U.S.A.
RP Address: 2300 CLAYTON RD, SUITE 640, CONCORD, CA 94520
Program: LUST
Lat/Long: 34.2012395 / -1
Local Agency Staff: PEJ
Beneficial Use: Not reported
Priority: Not reported
Cleanup Fund Id: Not reported
Suspended: Not reported
Assigned Name: 3301096-001GEN
Summary: 10/01/96 - QUARTERLY MONITORING REPORT 04/04/97 - REPORT FOR THE ABANDONMENT OF THREE AIR SPARGING/SOIL VE & 6 GW MONITORING WELLS

HIST CORTESE:
Region: CORTESE
Facility County Code: 19
Reg By: LTNKA
Reg Id: 913030707

N91 **EXXON** **CA LUST** **S103065163**
NE **7215 CANOGA** **CA HIST CORTESE** **N/A**
1/4-1/2 **CANOGA PARK, CA 91404**
0.396 mi.
2089 ft. **Site 5 of 6 in cluster N**

Relative: **Higher**
Actual: **797 ft.**

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: 913030916
Status: Pollution Characterization
Substance: Gasoline
Substance Quantity: Not reported
Local Case No: Not reported
Case Type: Soil
Abatement Method Used at the Site: Not reported
Global ID: T0603702096
W Global ID: W0606501096
Staff: UNK
Local Agency: 19050
Cross Street: SHERMAN WY
Enforcement Type: Not reported
Date Leak Discovered: 5/5/1988
Date Leak First Reported: 5/5/1988
Date Leak Record Entered: 9/11/1988
Date Confirmation Began: Not reported
Date Leak Stopped: Not reported
Date Case Last Changed on Database: 9/16/1988
Date the Case was Closed: Not reported
How Leak Discovered: Tank Closure
How Leak Stopped: Not reported
Cause of Leak: UNK
Leak Source: Tank
Operator: Not reported
Water System: HABONIM CAMP GILBOA
Well Name: Not reported

EXXON (Continued) **S103065163**

Approx. Dist To Production Well (ft): 9265.963642108704304247729471
Source of Cleanup Funding: Tank
Preliminary Site Assessment Workplan Submitted: Not reported
Preliminary Site Assessment Began: Not reported
Pollution Characterization Began: 9/16/1988
Remediation Plan Submitted: Not reported
Remedial Action Underway: Not reported
Post Remedial Action Monitoring Began: Not reported
Enforcement Action Date: Not reported
Historical Max MTBE Date: Not reported
Hist Max MTBE Conc in Groundwater: Not reported
Hist Max MTBE Conc in Soil: Not reported
Significant Interim Remedial Action Taken: Not reported
GW Qualifier: Not reported
Soil Qualifier: Not reported
Organization: Not reported
Owner Contact: Not reported
Responsible Party: CHATTERON, BILL
RP Address: PO BOX 19649, IRVINE, CA 91404
Program: LUST
Lat/Long: 34.2014065 / -1
Local Agency Staff: PEJ
Beneficial Use: Not reported
Priority: Not reported
Cleanup Fund Id: Not reported
Suspended: Not reported
Assigned Name: 3301096-001GEN
Summary: HEAVY CONTAMINATION INDICATED BY ON SITE ANALYZER --

HIST CORTESE:
Region: CORTESE
Facility County Code: 19
Reg By: LTNKA
Reg Id: 913030916

92
NW
1/4-1/2
0.404 mi.
2132 ft.

EXCLUSIVE AUTO **CA ENVIROSTOR** **S103642982**
22217 SHERMAN WAY **LA Co. Site Mitigation** **N/A**
CANOGA PARK, CA 91303

Relative:
Higher

Actual:
803 ft.

ENVIROSTOR:
Facility ID: 19750103
Status: Refer: 1248 Local Agency
Status Date: 08/16/2001
Site Code: Not reported
Site Type: Evaluation
Site Type Detailed: Evaluation
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Referred - Not Assigned
Division Branch: Cleanup Cypress
Assembly: 45
Senate: 27

EXCLUSIVE AUTO (Continued) **S103642982**

Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not Applicable
Latitude: 34.20128
Longitude: -118.6109
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: 19750103
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 10/25/2001
Comments: Per email from Maria Gillette dated 5/5/2015. Received Closure Report from CUPA.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

LA Co. Site Mitigation:
Facility ID: FA0024607
Status: Not reported
Site ID: SD0010028
Jurisdiction: County
Case ID: RO0010028
Abated: Yes
Assigned To: Don Thompson
Entered Date: 05/11/2004
Abated Date: 10/25/2001

N93 **HULL BROTHERS LUMBER CO** **CA LUST** **S103281968**
NE **21350 SHERMAN WY** **CA HIST CORTESE** **N/A**
1/4-1/2 **CANOGA PARK, CA 91303**
0.414 mi.
2184 ft. **Site 6 of 6 in cluster N**

Relative:
Higher

Actual:
796 ft.

LUST:
Lead Agency: LOS ANGELES RWQCB (REGION 4)
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0603702094
Global Id: T0603702094
Latitude: 34.2010215
Longitude: -118.5972292
Status: Completed - Case Closed
Status Date: 06/26/2006

HULL BROTHERS LUMBER CO (Continued) **S103281968**

Case Worker: CET
RB Case Number: 913030898
Local Agency: LOS ANGELES, CITY OF
File Location: Not reported
Local Case Number: Not reported
Potential Media Affect: Aquifer used for drinking water supply
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:
Global Id: T0603702094
Contact Type: Regional Board Caseworker
Contact Name: CHANDRA TYLER
Organization Name: LOS ANGELES RWQCB (REGION 4)
Address: Not reported
City: R4 UNKNOWN
Email: cetyler@waterboards.ca.gov
Phone Number: Not reported

Global Id: T0603702094
Contact Type: Local Agency Caseworker
Contact Name: TBD
Organization Name: LOS ANGELES, CITY OF
Address: 200 N. MAIN ST. RM. 970
City: LOS ANGELES
Email: Not reported
Phone Number: 2134826528

LUST:
Global Id: T0603702094
Action Type: RESPONSE
Date: 02/24/2006
Action: Request for Closure

Global Id: T0603702094
Action Type: RESPONSE
Date: 08/03/2001
Action: Soil and Water Investigation Workplan

Global Id: T0603702094
Action Type: RESPONSE
Date: 02/25/1999
Action: Preliminary Site Assessment Report

Global Id: T0603702094
Action Type: ENFORCEMENT
Date: 07/23/2002
Action: Staff Letter

Global Id: T0603702094
Action Type: ENFORCEMENT
Date: 05/30/2006
Action: Notification - Preclosure

Global Id: T0603702094
Action Type: Other
Date: 05/01/1990

HULL BROTHERS LUMBER CO (Continued) **S103281968**

Action: Leak Discovery

Global Id: T0603702094
Action Type: Other
Date: 05/01/1990
Action: Leak Reported

Global Id: T0603702094
Action Type: ENFORCEMENT
Date: 05/31/2001
Action: Staff Letter

Global Id: T0603702094
Action Type: ENFORCEMENT
Date: 05/03/2006
Action: Site Visit / Inspection / Sampling

Global Id: T0603702094
Action Type: ENFORCEMENT
Date: 06/26/2006
Action: Closure/No Further Action Letter

Global Id: T0603702094
Action Type: RESPONSE
Date: 10/28/2002
Action: Soil and Water Investigation Report

Global Id: T0603702094
Action Type: RESPONSE
Date: 02/24/2006
Action: Monitoring Report - Quarterly

LUST:
Global Id: T0603702094
Status: Completed - Case Closed
Status Date: 06/26/2006

Global Id: T0603702094
Status: Open - Case Begin Date
Status Date: 05/01/1990

Global Id: T0603702094
Status: Open - Site Assessment
Status Date: 10/28/1997

Global Id: T0603702094
Status: Open - Site Assessment
Status Date: 01/23/1998

Global Id: T0603702094
Status: Open - Site Assessment
Status Date: 02/25/1999

Global Id: T0603702094
Status: Open - Site Assessment
Status Date: 08/03/2001

HULL BROTHERS LUMBER CO (Continued) **S103281968**

Global Id: T0603702094
Status: Open - Site Assessment
Status Date: 12/06/2001

Global Id: T0603702094
Status: Open - Verification Monitoring
Status Date: 05/01/1990

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: 913030898
Status: Pollution Characterization
Substance: Gasoline
Substance Quantity: Not reported
Local Case No: Not reported
Case Type: Groundwater
Abatement Method Used at the Site: Not reported
Global ID: T0603702094
W Global ID: W0606501096
Staff: CEC
Local Agency: 19050
Cross Street: CANOGA AVE
Enforcement Type: LET
Date Leak Discovered: 5/1/1990
Date Leak First Reported: 5/1/1990
Date Leak Record Entered: 1/15/1998
Date Confirmation Began: Not reported
Date Leak Stopped: Not reported
Date Case Last Changed on Database: 6/28/2002
Date the Case was Closed: Not reported
How Leak Discovered: Tank Closure
How Leak Stopped: Not reported
Cause of Leak: UNK
Leak Source: UNK
Operator: Not reported
Water System: HABONIM CAMP GILBOA
Well Name: Not reported
Approx. Dist To Production Well (ft): 9230.991382624509248742945045
Source of Cleanup Funding: UNK
Preliminary Site Assessment Workplan Submitted: 10/28/1997
Preliminary Site Assessment Began: 1/23/1998
Pollution Characterization Began: 12/6/2001
Remediation Plan Submitted: Not reported
Remedial Action Underway: Not reported
Post Remedial Action Monitoring Began: 5/1/1990
Enforcement Action Date: Not reported
Historical Max MTBE Date: Not reported
Hist Max MTBE Conc in Groundwater: Not reported
Hist Max MTBE Conc in Soil: 12
Significant Interim Remedial Action Taken: Not reported
GW Qualifier: Not reported
Soil Qualifier: <
Organization: Not reported
Owner Contact: Not reported

HULL BROTHERS LUMBER CO (Continued) **S103281968**

Responsible Party:	JOHN MOE
RP Address:	49 STEVENSEN ST., 15TH FL
Program:	LUST
Lat/Long:	34.2010215 / -1
Local Agency Staff:	PEJ
Beneficial Use:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Suspended:	Not reported
Assigned Name:	3301096-001GEN
Summary:	5/98 - SITE INVESTIGATION; 9/13/00 SOIL AND GW RPT

HIST CORTESE:

Region:	CORTESE
Facility County Code:	19
Reg By:	LTNKA
Reg Id:	913030898

O94 **INT'L MOTOR CYCLES INC** **CA LUST S102431663**
NE **7233 CANOGA AVE** **CA HIST CORTESE N/A**
1/4-1/2 **CANOGA PARK, CA 91303**
0.427 mi.
2254 ft. **Site 1 of 2 in cluster O**

Relative:
Higher

Actual:
798 ft.

LUST:

Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0603702081
Global Id:	T0603702081
Latitude:	34.202011
Longitude:	-118.598105
Status:	Completed - Case Closed
Status Date:	07/29/1996
Case Worker:	YR
RB Case Number:	913030752
Local Agency:	LOS ANGELES, CITY OF
File Location:	Not reported
Local Case Number:	Not reported
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Other Solvent or Non-Petroleum Hydrocarbon
Site History:	Not reported

LUST:

Global Id:	T0603702081
Contact Type:	Local Agency Caseworker
Contact Name:	ELOY LUNA
Organization Name:	LOS ANGELES, CITY OF
Address:	200 North Main Street, Suite 1780
City:	LOS ANGELES
Email:	eloy.luna@lacity.org
Phone Number:	Not reported

Global Id:	T0603702081
Contact Type:	Regional Board Caseworker
Contact Name:	YUE RONG
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	320 W. 4TH ST., SUITE 200
City:	Los Angeles

INT'L MOTOR CYCLES INC (Continued) **S102431663**

Email: yrong@waterboards.ca.gov
Phone Number: Not reported

LUST:
Global Id: T0603702081
Action Type: Other
Date: 05/21/1991
Action: Leak Reported

LUST:
Global Id: T0603702081
Status: Completed - Case Closed
Status Date: 07/29/1996

Global Id: T0603702081
Status: Open - Case Begin Date
Status Date: 05/21/1991

Global Id: T0603702081
Status: Open - Remediation
Status Date: 04/01/1994

Global Id: T0603702081
Status: Open - Site Assessment
Status Date: 05/21/1991

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: 913030752
Status: Case Closed
Substance: Hydrocarbons
Substance Quantity: Not reported
Local Case No: Not reported
Case Type: Groundwater
Abatement Method Used at the Site: Not reported
Global ID: T0603702081
W Global ID: W0606501096
Staff: UNK
Local Agency: 19050
Cross Street: WYANDOTTE ST
Enforcement Type: Not reported
Date Leak Discovered: Not reported
Date Leak First Reported: 5/21/1991
Date Leak Record Entered: 5/16/1991
Date Confirmation Began: Not reported
Date Leak Stopped: Not reported
Date Case Last Changed on Database: 12/9/1996
Date the Case was Closed: 7/29/1996
How Leak Discovered: Not reported
How Leak Stopped: Not reported
Cause of Leak: UNK
Leak Source: UNK
Operator: OLD CASE/ZIP: 060691-01/91404

INT'L MOTOR CYCLES INC (Continued) **S102431663**

Water System:	HABONIM CAMP GILBOA
Well Name:	Not reported
Approx. Dist To Production Well (ft):	9367.6092807220384775036068 84
Source of Cleanup Funding:	UNK
Preliminary Site Assessment Workplan Submitted:	Not reported
Preliminary Site Assessment Began:	Not reported
Pollution Characterization Began:	5/21/1991
Remediation Plan Submitted:	Not reported
Remedial Action Underway:	4/1/1994
Post Remedial Action Monitoring Began:	Not reported
Enforcement Action Date:	Not reported
Historical Max MTBE Date:	1/1/1965
Hist Max MTBE Conc in Groundwater:	3.3
Hist Max MTBE Conc in Soil:	Not reported
Significant Interim Remedial Action Taken:	Not reported
GW Qualifier:	Not reported
Soil Qualifier:	Not reported
Organization:	Not reported
Owner Contact:	Not reported
Responsible Party:	INTERNATIONAL MOTOR CYCLES,INC
RP Address:	7233 CANOGA AVE, CANOGA PARK CA 91303
Program:	LUST
Lat/Long:	34.2017135 / -1
Local Agency Staff:	PEJ
Beneficial Use:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Suspended:	Not reported
Assigned Name:	3301096-001GEN
Summary:	12/09/96 - REPORT OF ABANDONMENT OF VE TRENCHES/WELLS

HIST CORTESE:

Region:	CORTESE
Facility County Code:	19
Reg By:	LTNKA
Reg Id:	913030752

95
SSE
1/4-1/2
0.438 mi.
2311 ft.

ROCKWELL - BEST BUY **CA CPS-SLIC** **S104405019**
21601 VICTORY **N/A**
WOODLAND HILLS, CA 91367

Relative: Higher

Actual: 805 ft.

CPS-SLIC:

Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	08/12/1995
Global Id:	SLT43134132
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Lead Agency Case Number:	Not reported
Latitude:	34.18862
Longitude:	-118.600558
Case Type:	Cleanup Program Site
Case Worker:	RC
Local Agency:	Not reported
RB Case Number:	0237B
File Location:	Not reported

ROCKWELL - BEST BUY (Continued) **S104405019**

Potential Media Affected: Not reported
Potential Contaminants of Concern: Not reported
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

SLIC REG 4:
Region: 4
Facility Status: No further action required
SLIC: 0237B
Substance: Not reported
Staff: Rebecca Chou

P96 **BERGE MATOSSIAN #14-509** **CA LUST** **U001567091**
South **6423 TOPANGA CANYON BLVD** **CA CPS-SLIC** **N/A**
1/4-1/2 **CANOGA PARK, CA 91303** **CA HIST UST**
0.455 mi. **CA CHMIRS**
2405 ft. **Site 1 of 2 in cluster P**

Relative: Higher
Actual: 810 ft.

LUST:
Lead Agency: LOS ANGELES RWQCB (REGION 4)
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0603793071
Global Id: T0603793071
Latitude: 34.1875
Longitude: -118.606165
Status: Completed - Case Closed
Status Date: 07/30/2010
Case Worker: AT
RB Case Number: 913030934
Local Agency: LOS ANGELES, CITY OF
File Location: Regional Board
Local Case Number: 21739
Potential Media Affect: Aquifer used for drinking water supply
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:
Global Id: T0603793071
Contact Type: Regional Board Caseworker
Contact Name: ARMAN TOUMARI
Organization Name: LOS ANGELES RWQCB (REGION 4)
Address: 320 WEST 4TH STREET, SUITE 200
City: LOS ANGELES
Email: atoumari@waterboards.ca.gov
Phone Number: 2135766708

Global Id: T0603793071
Contact Type: Local Agency Caseworker
Contact Name: MARCUS LOOK
Organization Name: LOS ANGELES, CITY OF
Address: 200 N. MAIN ST. RM. 970
City: LOS ANGELES
Email: Not reported
Phone Number: Not reported

LUST:

BERGE MATOSSIAN #14-509 (Continued) **U001567091**

Global Id: T0603793071
Action Type: RESPONSE
Date: 04/15/2007
Action: Monitoring Report - Quarterly

Global Id: T0603793071
Action Type: RESPONSE
Date: 01/15/2007
Action: Monitoring Report - Quarterly

Global Id: T0603793071
Action Type: RESPONSE
Date: 07/15/2009
Action: Monitoring Report - Quarterly

Global Id: T0603793071
Action Type: RESPONSE
Date: 10/15/2007
Action: Monitoring Report - Quarterly

Global Id: T0603793071
Action Type: RESPONSE
Date: 01/15/2009
Action: Soil and Water Investigation Workplan

Global Id: T0603793071
Action Type: RESPONSE
Date: 01/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603793071
Action Type: RESPONSE
Date: 04/15/2009
Action: Monitoring Report - Quarterly

Global Id: T0603793071
Action Type: RESPONSE
Date: 01/15/2010
Action: Soil and Water Investigation Workplan

Global Id: T0603793071
Action Type: ENFORCEMENT
Date: 06/15/2009
Action: Staff Letter

Global Id: T0603793071
Action Type: RESPONSE
Date: 10/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603793071
Action Type: RESPONSE
Date: 10/15/2006
Action: Monitoring Report - Quarterly

Global Id: T0603793071
Action Type: RESPONSE

BERGE MATOSSIAN #14-509 (Continued) **U001567091**

Date: 07/15/2005
Action: Monitoring Report - Quarterly

Global Id: T0603793071
Action Type: RESPONSE
Date: 01/15/2006
Action: Monitoring Report - Quarterly

Global Id: T0603793071
Action Type: RESPONSE
Date: 07/15/2007
Action: Soil and Water Investigation Report

Global Id: T0603793071
Action Type: RESPONSE
Date: 01/15/2009
Action: Monitoring Report - Quarterly

Global Id: T0603793071
Action Type: Other
Date: 08/06/2000
Action: Leak Stopped

Global Id: T0603793071
Action Type: RESPONSE
Date: 07/15/2006
Action: Monitoring Report - Quarterly

Global Id: T0603793071
Action Type: RESPONSE
Date: 07/15/2007
Action: Monitoring Report - Quarterly

Global Id: T0603793071
Action Type: RESPONSE
Date: 10/15/2009
Action: Soil and Water Investigation Report

Global Id: T0603793071
Action Type: RESPONSE
Date: 04/15/2010
Action: Soil and Water Investigation Report

Global Id: T0603793071
Action Type: Other
Date: 08/06/2000
Action: Leak Discovery

Global Id: T0603793071
Action Type: RESPONSE
Date: 03/11/2005
Action: Soil and Water Investigation Workplan

Global Id: T0603793071
Action Type: RESPONSE
Date: 11/29/2004
Action: Other Report / Document

BERGE MATOSSIAN #14-509 (Continued) **U001567091**

Global Id: T0603793071
Action Type: ENFORCEMENT
Date: 10/28/2004
Action: Staff Letter

Global Id: T0603793071
Action Type: RESPONSE
Date: 10/15/2005
Action: Monitoring Report - Quarterly

Global Id: T0603793071
Action Type: Other
Date: 08/07/2000
Action: Leak Reported

Global Id: T0603793071
Action Type: ENFORCEMENT
Date: 07/30/2010
Action: Closure/No Further Action Letter

Global Id: T0603793071
Action Type: RESPONSE
Date: 07/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603793071
Action Type: RESPONSE
Date: 04/15/2005
Action: Monitoring Report - Quarterly

Global Id: T0603793071
Action Type: RESPONSE
Date: 01/15/2005
Action: Monitoring Report - Quarterly

Global Id: T0603793071
Action Type: RESPONSE
Date: 04/15/2006
Action: Monitoring Report - Quarterly

Global Id: T0603793071
Action Type: RESPONSE
Date: 01/15/2010
Action: Monitoring Report - Semi-Annually

Global Id: T0603793071
Action Type: RESPONSE
Date: 04/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603793071
Action Type: RESPONSE
Date: 04/15/2010
Action: Monitoring Report - Quarterly

LUST:
Global Id: T0603793071

BERGE MATOSSIAN #14-509 (Continued) **U001567091**

Status: Completed - Case Closed
Status Date: 07/30/2010

Global Id: T0603793071
Status: Open - Case Begin Date
Status Date: 08/06/2000

Global Id: T0603793071
Status: Open - Site Assessment
Status Date: 08/07/2000

Global Id: T0603793071
Status: Open - Site Assessment
Status Date: 03/26/2004

Global Id: T0603793071
Status: Open - Site Assessment
Status Date: 03/11/2005

Global Id: T0603793071
Status: Open - Site Assessment
Status Date: 08/13/2007

CPS-SLIC:
Region: STATE
Facility Status: Open - Site Assessment
Status Date: 06/20/2005
Global Id: T0603759671
Lead Agency: LOS ANGELES, CITY OF
Lead Agency Case Number: Not reported
Latitude: 34.187244
Longitude: -118.606257
Case Type: Cleanup Program Site
Case Worker: ML
Local Agency: LOS ANGELES, CITY OF
RB Case Number: Not reported
File Location: Not reported
Potential Media Affected: Not reported
Potential Contaminants of Concern: Gasoline
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

HIST UST:
File Number: Not reported
URL: Not reported
Region: STATE
Facility ID: 00000039682
Facility Type: Gas Station
Other Type: Not reported
Contact Name: Not reported
Telephone: 8189925484
Owner Name: MOBIL OIL CORPORATION
Owner Address: 612 SOUTH FLOWER STREET
Owner City,St,Zip: LOS ANGELES, CA 90017

BERGE MATOSSIAN #14-509 (Continued) **U001567091**

Total Tanks: 0004

Tank Num: 001
Container Num: 0084
Year Installed: 1966
Tank Capacity: 00000280
Tank Used for: WASTE
Type of Fuel: WASTE OIL
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Tank Num: 002
Container Num: 0085
Year Installed: 1966
Tank Capacity: 00009940
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Tank Num: 003
Container Num: 0086
Year Installed: 1966
Tank Capacity: 00008000
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Tank Num: 004
Container Num: 0087
Year Installed: 1972
Tank Capacity: 00006000
Tank Used for: PRODUCT
Type of Fuel: PREMIUM
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

CHMIRS:
OES Incident Number: 0-3526
OES notification: 08/07/2000
OES Date: Not reported
OES Time: Not reported
Date Completed: **Not reported**
Property Use: Not reported
Agency Id Number: Not reported
Agency Incident Number: Not reported
Time Notified: Not reported
Time Completed: Not reported
Surrounding Area: Not reported
Estimated Temperature: Not reported
Property Management: Not reported
More Than Two Substances Involved?: Not reported
Resp Agncy Personel # Of Decontaminated: Not reported
Responding Agency Personel # Of Injuries: Not reported
Responding Agency Personel # Of Fatalities: Not reported
Others Number Of Decontaminated: Not reported

BERGE MATOSSIAN #14-509 (Continued) **U001567091**

Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	Fire Dept.
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	2000
Agency:	Tanknology
Incident Date:	8/6/200012:00:00 AM
Admin Agency:	L. A. County Fire Prevention
Amount:	Not reported
Contained:	Yes
Site Type:	Service Station
E Date:	Not reported
Substance:	Gasoline
Gallons:	10-80
Unknown:	0
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	Customer hit the dispenser

P97 **MOBIL #18-JT6** **CA LUST** **S104773281**
South **6423 TOPANGA CANYON BLVD** **N/A**
1/4-1/2 **CANOGA PARK, CA 91303**
0.455 mi.
2405 ft. **Site 2 of 2 in cluster P**

Relative: LUST REG 4:
Higher

Actual: Region: 4
810 ft. Regional Board: 04
County: Los Angeles
Facility Id: 913030934
Status: Leak being confirmed
Substance: Gasoline
Substance Quantity: Not reported
Local Case No: Not reported
Case Type: Soil
Abatement Method Used at the Site: No Action Required
Global ID: T0603793071
W Global ID: Not reported
Staff: UNK
Local Agency: 19050
Cross Street: VICTORY BLVD
Enforcement Type: Not reported
Date Leak Discovered: 8/6/2000
Date Leak First Reported: 8/7/2000
Date Leak Record Entered: Not reported
Date Confirmation Began: 8/7/2000
Date Leak Stopped: 8/6/2000
Date Case Last Changed on Database: 8/7/2000
Date the Case was Closed: Not reported
How Leak Discovered: OM
How Leak Stopped: Not reported
Cause of Leak: Other Cause
Leak Source: Not reported
Operator: LEE HANLEY
Water System: Not reported
Well Name: Not reported
Approx. Dist To Production Well (ft): 3617.701157474742803183065296
Source of Cleanup Funding: Not reported
Preliminary Site Assessment Workplan Submitted: Not reported
Preliminary Site Assessment Began: Not reported
Pollution Characterization Began: Not reported
Remediation Plan Submitted: Not reported
Remedial Action Underway: Not reported
Post Remedial Action Monitoring Began: Not reported
Enforcement Action Date: Not reported
Historical Max MTBE Date: Not reported
Hist Max MTBE Conc in Groundwater: Not reported
Hist Max MTBE Conc in Soil: .631
Significant Interim Remedial Action Taken: Not reported
GW Qualifier: Not reported
Soil Qualifier: =
Organization: Not reported
Owner Contact: Not reported
Responsible Party: MOBIL OIL CORPORATION
RP Address: 1464 MADERA RD., SUITE N265, SIMI VALLEY, CA 93065
Program: LUST
Lat/Long: 34.1875 / -1
Local Agency Staff: PEJ

MOBIL #18-JT6 (Continued) **S104773281**

Beneficial Use: Not reported
Priority: Not reported
Cleanup Fund Id: Not reported
Suspended: Not reported
Assigned Name: Not reported
Summary: APPROX 10-80 GAL ABOVE GROUND SPILL DUE TO CUSTOMER HIT DISPENSER #7,8. ALL PRODUCT WAS CONTAINED ON CONCRETE AND CLEANED UP BY THE FIRE DEPT. A CONTRACTOR WAS DISPATCHED ON EMERGENCY TO MAKE REPAIRS.

Q98 **JC PENNY CO.** **CA CPS-SLIC** **S106386992**
SSE **21500 VICTORY** **N/A**
1/4-1/2 **WOODLAND HILLS, CA 91367**
0.461 mi.
2436 ft. **Site 1 of 2 in cluster Q**

Relative: Higher
Actual: 804 ft.

SLIC REG 4:
Region: 4
Facility Status: No further action required
SLIC: 0325
Substance: TPH
Staff: John Geroch

Q99 **JC PENNY CO** **CA LUST** **S101540104**
SSE **21500 VICTORY BLVD** **CA CPS-SLIC** **N/A**
1/4-1/2 **WOODLAND HILLS, CA 91367** **CA HIST CORTESE**
0.461 mi.
2436 ft. **Site 2 of 2 in cluster Q**

Relative: Higher
Actual: 804 ft.

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: 913670643
Status: Case Closed
Substance: Gasoline
Substance Quantity: Not reported
Local Case No: Not reported
Case Type: Groundwater
Abatement Method Used at the Site: VE
Global ID: T0603702400
W Global ID: W0606501096
Staff: SLC
Local Agency: 19050
Cross Street: CANOGA AVE
Enforcement Type: Not reported
Date Leak Discovered: 9/19/1988
Date Leak First Reported: 2/19/1998
Date Leak Record Entered: 2/20/1998
Date Confirmation Began: Not reported
Date Leak Stopped: Not reported
Date Case Last Changed on Database: 1/27/1997
Date the Case was Closed: 2/25/1998
How Leak Discovered: Tank Closure
How Leak Stopped: Not reported
Cause of Leak: Not reported
Leak Source: Tank

JC PENNY CO (Continued) **S101540104**

Operator:	Not reported
Water System:	HABONIM CAMP GILBOA
Well Name:	Not reported
Approx. Dist To Production Well (ft):	5169.826051430010663848872792 3
Source of Cleanup Funding:	Tank
Preliminary Site Assessment Workplan Submitted:	Not reported
Preliminary Site Assessment Began:	Not reported
Pollution Characterization Began:	Not reported
Remediation Plan Submitted:	Not reported
Remedial Action Underway:	Not reported
Post Remedial Action Monitoring Began:	Not reported
Enforcement Action Date:	Not reported
Historical Max MTBE Date:	Not reported
Hist Max MTBE Conc in Groundwater:	Not reported
Hist Max MTBE Conc in Soil:	Not reported
Significant Interim Remedial Action Taken:	Not reported
GW Qualifier:	Not reported
Soil Qualifier:	Not reported
Organization:	Not reported
Owner Contact:	Not reported
Responsible Party:	J. C. PENNY CO.
RP Address:	6131 ORANGETHORPE AVE., BUENA PARK, CA 90624
Program:	SLIC
Lat/Long:	34.1881638 / -1
Local Agency Staff:	PEJ
Beneficial Use:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Suspended:	Not reported
Assigned Name:	3301096-001GEN
Summary:	VAPOR EXTRACTION COMPLETED. GROUNDWATER MONITORING DATA SHOWVERY LOW TO NON-DETECTABLE CONCENTRATION OF BTEX AND VERY LOW CONCENTRATIONS TO TPH-G IN GW. GROUNDWATER PLUME CONTINUING TO SHRINK. REFER TO SLIC #325

CPS-SLIC:

Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	02/25/1998
Global Id:	T0603702400
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Lead Agency Case Number:	Not reported
Latitude:	34.1868849
Longitude:	-118.599509
Case Type:	Cleanup Program Site
Case Worker:	SLC
Local Agency:	LOS ANGELES, CITY OF
RB Case Number:	0325
File Location:	Not reported
Potential Media Affected:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

HIST CORTESE:

JC PENNY CO (Continued) **S101540104**

Region: CORTESE
Facility County Code: 19
Reg By: LTNKA
Reg Id: 913670643

O100 **SOUTHERN PACIFIC FACILITY** **CA LUST** **S102590627**
NE **7258 CANOGA AVE** **CA HIST CORTESE** **N/A**
1/4-1/2 **CANOGA PARK, CA 91303**
0.470 mi.
2479 ft. **Site 2 of 2 in cluster O**

Relative:
Higher

Actual:
799 ft.

LUST:
Lead Agency: LOS ANGELES RWQCB (REGION 4)
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0603702078
Global Id: T0603702078
Latitude: 34.2021052
Longitude: -118.5977043
Status: Completed - Case Closed
Status Date: 04/25/1997
Case Worker: YR
RB Case Number: 913030725
Local Agency: LOS ANGELES, CITY OF
File Location: Not reported
Local Case Number: Not reported
Potential Media Affect: Aquifer used for drinking water supply
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:
Global Id: T0603702078
Contact Type: Local Agency Caseworker
Contact Name: ELOY LUNA
Organization Name: LOS ANGELES, CITY OF
Address: 200 North Main Street, Suite 1780
City: LOS ANGELES
Email: eloy.luna@lacity.org
Phone Number: Not reported

Global Id: T0603702078
Contact Type: Regional Board Caseworker
Contact Name: YUE RONG
Organization Name: LOS ANGELES RWQCB (REGION 4)
Address: 320 W. 4TH ST., SUITE 200
City: Los Angeles
Email: yrong@waterboards.ca.gov
Phone Number: Not reported

LUST:
Global Id: T0603702078
Action Type: Other
Date: 05/20/1991
Action: Leak Reported

LUST:
Global Id: T0603702078
Status: Completed - Case Closed

SOUTHERN PACIFIC FACILITY (Continued) **S102590627**

Status Date: 04/25/1997

Global Id: T0603702078
Status: Open - Case Begin Date
Status Date: 05/20/1991

Global Id: T0603702078
Status: Open - Site Assessment
Status Date: 10/22/1991

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: 913030725
Status: Case Closed
Substance: Gasoline
Substance Quantity: Not reported
Local Case No: Not reported
Case Type: Groundwater
Abatement Method Used at the Site: Not reported
Global ID: T0603702078
W Global ID: W0606501096
Staff: UNK
Local Agency: 19050
Cross Street: SHERMAN WAY
Enforcement Type: Not reported
Date Leak Discovered: Not reported
Date Leak First Reported: 5/20/1991
Date Leak Record Entered: 5/13/1991
Date Confirmation Began: Not reported
Date Leak Stopped: Not reported
Date Case Last Changed on Database: 9/25/1997
Date the Case was Closed: 4/25/1997
How Leak Discovered: Not reported
How Leak Stopped: Not reported
Cause of Leak: UNK
Leak Source: UNK
Operator: (FORMER) SOUTHERN PACIFIC
Water System: HABONIM CAMP GILBOA
Well Name: Not reported
Approx. Dist To Production Well (ft): 9547.736115889904733760070788
Source of Cleanup Funding: UNK
Preliminary Site Assessment Workplan Submitted: Not reported
Preliminary Site Assessment Began: Not reported
Pollution Characterization Began: 10/22/1991
Remediation Plan Submitted: Not reported
Remedial Action Underway: Not reported
Post Remedial Action Monitoring Began: Not reported
Enforcement Action Date: Not reported
Historical Max MTBE Date: Not reported
Hist Max MTBE Conc in Groundwater: Not reported
Hist Max MTBE Conc in Soil: Not reported
Significant Interim Remedial Action Taken: Not reported
GW Qualifier: Not reported
Soil Qualifier: Not reported

SOUTHERN PACIFIC FACILITY (Continued) **S102590627**

Organization:	Not reported
Owner Contact:	Not reported
Responsible Party:	SOUTHERN PACIFIC LINES
RP Address:	1200 CORPORATED CENTER DR, STE 100, MONTEREY PARK CA 91754
Program:	LUST
Lat/Long:	34.2021545 / -1
Local Agency Staff:	PEJ
Beneficial Use:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Suspended:	Not reported
Assigned Name:	3301096-001GEN
Summary:	9/25/97 - DESTRUCTION OF FIVE GW MON.

HIST CORTESE:

Region:	CORTESE
Facility County Code:	19
Reg By:	LTNKA
Reg Id:	913030725

101
SE
1/2-1
0.581 mi.
3068 ft.

LAMCO DEVELOPERS **CA Notify 65** **S100178372**
21300 VICTORY BLVD. **N/A**
CANOGA PARK, CA

Relative:
Higher

Actual:
799 ft.

NOTIFY 65:

Date Reported:	Not reported
Staff Initials:	Not reported
Board File Number:	Not reported
Facility Type:	Not reported
Discharge Date:	Not reported
Issue Date:	Not reported
Incident Description:	Not reported

102
SSE
1/2-1
0.644 mi.
3400 ft.

TRILLIUM CLEANERS(FORMER) **CA ENVIROSTOR** **S100946935**
6326 CANOGA AVE. **CA CPS-SLIC** **N/A**
WOODLAND HILLS, CA 91367 **LA Co. Site Mitigation**

Relative:
Higher

Actual:
808 ft.

ENVIROSTOR:

Facility ID:	19720054
Status:	Refer: 1248 Local Agency
Status Date:	04/25/2003
Site Code:	Not reported
Site Type:	Evaluation
Site Type Detailed:	Evaluation
Acres:	Not reported
NPL:	NO
Regulatory Agencies:	NONE SPECIFIED
Lead Agency:	NONE SPECIFIED
Program Manager:	Not reported
Supervisor:	Referred - Not Assigned
Division Branch:	Cleanup Cypress
Assembly:	41

TRILLIUM CLEANERS(FORMER) (Continued) **S100946935**

Senate: Not reported
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not Applicable
Latitude: 34.18578
Longitude: -118.5970
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: 19720054
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SLIC REG 4:
Region: 4
Facility Status: Not reported
SLIC: 1107
Substance: PCE
Staff: LACFD

LA Co. Site Mitigation:
Facility ID: FA0006526
Status: Not reported
Site ID: SD0000013
Jurisdiction: State
Case ID: RO0000042
Abated: Yes
Assigned To: Kim Clark
Entered Date: 06/04/2003
Abated Date: 01/22/2004

103
NNE
1/2-1
0.696 mi.
3677 ft.

CANOGA PARK PRIMARY CENTER
7505 CANOGA AVENUE
CANOGA PARK, CA 91303

CA ENVIROSTOR **S105628548**
CA LUST **N/A**
CA SCH

Relative:
Higher

Actual:
808 ft.

ENVIROSTOR:

Facility ID:	19750092
Status:	No Further Action
Status Date:	01/09/2003
Site Code:	304250
Site Type:	School Investigation
Site Type Detailed:	School
Acres:	5.3
NPL:	NO
Regulatory Agencies:	DTSC
Lead Agency:	DTSC
Program Manager:	Not reported
Supervisor:	Javier Hinojosa
Division Branch:	Southern California Schools & Brownfields Outreach
Assembly:	45
Senate:	27
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	School District
Latitude:	34.20714
Longitude:	-118.5977
APN:	NONE SPECIFIED
Past Use:	ELECTRIC GENERATION/SUBSTATION, VEHICLE MAINTENANCE
Potential COC:	NONE SPECIFIED No Contaminants found
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	CANOGA PARK PRIMARY CENTER
Alias Type:	Alternate Name
Alias Name:	CANOGA PARK PRIMARY CENTER (PROPOSED)
Alias Type:	Alternate Name
Alias Name:	NEW ECONOMICS FOR WOMEN
Alias Type:	Alternate Name
Alias Name:	NEW ECONOMICS FOR WOMEN-CANOGA PARK ES
Alias Type:	Alternate Name
Alias Name:	304250
Alias Type:	Project Code (Site Code)
Alias Name:	19750092
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	01/09/2003
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Workplan
Completed Date:	08/16/2002
Comments:	Not reported
Completed Area Name:	PROJECT WIDE

CANOGA PARK PRIMARY CENTER (Continued) **S105628548**

Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 02/06/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 07/01/2002
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

LUST:
Lead Agency: LOS ANGELES RWQCB (REGION 4)
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0603776884
Global Id: T0603776884
Latitude: 34.20657
Longitude: -118.597507
Status: Completed - Case Closed
Status Date: 01/14/2005
Case Worker: MB
RB Case Number: 913030952
Local Agency: LOS ANGELES, CITY OF
File Location: Regional Board
Local Case Number: 801-11552
Potential Media Affect: Aquifer used for drinking water supply
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:
Global Id: T0603776884
Contact Type: Regional Board Caseworker
Contact Name: MAGDY BAIADY
Organization Name: LOS ANGELES RWQCB (REGION 4)
Address: 320 W. 4TH ST., SUITE 200
City: LOS ANGELES
Email: mbaiady@waterboards.ca.gov
Phone Number: 2135766699

Global Id: T0603776884
Contact Type: Local Agency Caseworker
Contact Name: TBD
Organization Name: LOS ANGELES, CITY OF
Address: 200 N. MAIN ST. RM. 970
City: LOS ANGELES
Email: Not reported
Phone Number: 2134826528

CANOGA PARK PRIMARY CENTER (Continued) **S105628548**

LUST:

Global Id:	T0603776884
Action Type:	ENFORCEMENT
Date:	04/14/2004
Action:	Staff Letter
Global Id:	T0603776884
Action Type:	Other
Date:	03/27/1990
Action:	Leak Stopped
Global Id:	T0603776884
Action Type:	Other
Date:	02/26/2004
Action:	Leak Reported
Global Id:	T0603776884
Action Type:	REMEDIATION
Date:	02/26/2004
Action:	Not reported
Global Id:	T0603776884
Action Type:	Other
Date:	10/28/2003
Action:	Leak Discovery
Global Id:	T0603776884
Action Type:	RESPONSE
Date:	11/16/2004
Action:	Soil and Water Investigation Report
Global Id:	T0603776884
Action Type:	RESPONSE
Date:	05/14/2004
Action:	Other Report / Document
Global Id:	T0603776884
Action Type:	ENFORCEMENT
Date:	01/14/2005
Action:	Closure/No Further Action Letter
Global Id:	T0603776884
Action Type:	ENFORCEMENT
Date:	06/09/2004
Action:	Staff Letter
Global Id:	T0603776884
Action Type:	ENFORCEMENT
Date:	05/14/2004
Action:	Site Visit / Inspection / Sampling
Global Id:	T0603776884
Action Type:	RESPONSE
Date:	07/15/2004
Action:	Soil and Water Investigation Workplan

CANOGA PARK PRIMARY CENTER (Continued) **S105628548**

LUST:
Global Id: T0603776884
Status: Completed - Case Closed
Status Date: 01/14/2005

Global Id: T0603776884
Status: Open - Case Begin Date
Status Date: 03/27/1990

Global Id: T0603776884
Status: Open - Site Assessment
Status Date: 03/27/1990

Global Id: T0603776884
Status: Open - Site Assessment
Status Date: 05/01/1990

Global Id: T0603776884
Status: Open - Site Assessment
Status Date: 07/19/2004

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: 913030952
Status: Pollution Characterization
Substance: Gasoline
Substance Quantity: Not reported
Local Case No: 801-11552
Case Type: Undefined
Abatement Method Used at the Site: Not reported
Global ID: T0603776884
W Global ID: Not reported
Staff: MB
Local Agency: 19050
Cross Street: SATICOY
Enforcement Type: DLSEL
Date Leak Discovered: 10/28/2003
Date Leak First Reported: 2/26/2004
Date Leak Record Entered: Not reported
Date Confirmation Began: 3/2/2004
Date Leak Stopped: 3/27/1990
Date Case Last Changed on Database: Not reported
Date the Case was Closed: Not reported
How Leak Discovered: SAS
How Leak Stopped: Close Tank
Cause of Leak: UNK
Leak Source: UNK
Operator: Not reported
Water System: Not reported
Well Name: Not reported
Approx. Dist To Production Well (ft): Not reported
Source of Cleanup Funding: UNK
Preliminary Site Assessment Workplan Submitted: Not reported

CANOGA PARK PRIMARY CENTER (Continued) **S105628548**

Preliminary Site Assessment Began:	Not reported
Pollution Characterization Began:	7/19/2004
Remediation Plan Submitted:	Not reported
Remedial Action Underway:	Not reported
Post Remedial Action Monitoring Began:	Not reported
Enforcement Action Date:	Not reported
Historical Max MTBE Date:	Not reported
Hist Max MTBE Conc in Groundwater:	Not reported
Hist Max MTBE Conc in Soil:	Not reported
Significant Interim Remedial Action Taken:	Not reported
GW Qualifier:	Not reported
Soil Qualifier:	Not reported
Organization:	Not reported
Owner Contact:	Not reported
Responsible Party:	DORA CERVANTES
RP Address:	303 S. LOMA DR.
Program:	LUST
Lat/Long:	0 / 0
Local Agency Staff:	Not reported
Beneficial Use:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Suspended:	Not reported
Assigned Name:	Not reported
Summary:	Not reported

SCH:

Facility ID:	19750092
Site Type:	School Investigation
Site Type Detail:	School
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	5.3
National Priorities List:	NO
Cleanup Oversight Agencies:	DTSC
Lead Agency:	DTSC
Lead Agency Description:	* DTSC
Project Manager:	Not reported
Supervisor:	Javier Hinojosa
Division Branch:	Southern California Schools & Brownfields Outreach
Site Code:	304250
Assembly:	45
Senate:	27
Special Program Status:	Not reported
Status:	No Further Action
Status Date:	01/09/2003
Restricted Use:	NO
Funding:	School District
Latitude:	34.20714
Longitude:	-118.5977
APN:	NONE SPECIFIED
Past Use:	ELECTRIC GENERATION/SUBSTATION, VEHICLE MAINTENANCE
Potential COC:	NONE SPECIFIED, No Contaminants found
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	CANOGA PARK PRIMARY CENTER
Alias Type:	Alternate Name

CANOGA PARK PRIMARY CENTER (Continued) **S105628548**

Alias Name: CANOGA PARK PRIMARY CENTER (PROPOSED)
Alias Type: Alternate Name
Alias Name: NEW ECONOMICS FOR WOMEN
Alias Type: Alternate Name
Alias Name: NEW ECONOMICS FOR WOMEN-CANOGA PARK ES
Alias Type: Alternate Name
Alias Name: 304250
Alias Type: Project Code (Site Code)
Alias Name: 19750092
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 01/09/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 08/16/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 02/06/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 07/01/2002
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

104
ESE
1/2-1
0.734 mi.
3873 ft.

MTA ORANGE LINE **CA ENVIROSTOR** **S107736792**
RIGHT OF WAY FROM LANKERSHIM BLVD/CHANDLER BLVD TO CANOGA PA **CA VCP** **N/A**
N. HOLLYWOOD TO WOODLAND HILLS, CA 91367

Relative:
Lower

Actual:
789 ft.

ENVIROSTOR:
Facility ID: 60000187
Status: No Further Action
Status Date: 10/29/2004
Site Code: 301216
Site Type: Voluntary Cleanup

MTA ORANGE LINE (Continued) **S107736792**

Site Type Detailed:	Voluntary Cleanup
Acres:	102
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Jessy Fierro
Supervisor:	Juli Propes
Division Branch:	Cleanup Chatsworth
Assembly:	45
Senate:	27
Special Program:	Voluntary Cleanup Program
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	34.19027
Longitude:	-118.5909
APN:	NONE SPECIFIED
Past Use:	RAILROAD RIGHT OF WAY
Potential COC:	Arsenic Lead
Confirmed COC:	Arsenic Lead
Potential Description:	SOIL
Alias Name:	110033605873
Alias Type:	EPA (FRS #)
Alias Name:	301216
Alias Type:	Project Code (Site Code)
Alias Name:	60000187
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Completion Report
Completed Date:	10/29/2004
Comments:	The report summarizes the expedited removal of soil containing elevated levels of arsenic and lead along the right of way.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Characterization Report
Completed Date:	01/29/2004
Comments:	The Report summarized sampling data for the MTA right-of-way.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	02/26/2004
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

MTA ORANGE LINE (Continued) **S107736792**

VCP:

Facility ID:	60000187
Site Type:	Voluntary Cleanup
Site Type Detail:	Voluntary Cleanup
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	102
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Jessy Fierro
Supervisor:	Juli Propes
Division Branch:	Cleanup Chatsworth
Site Code:	301216
Assembly:	45
Senate:	27
Special Programs Code:	Voluntary Cleanup Program
Status:	No Further Action
Status Date:	10/29/2004
Restricted Use:	NO
Funding:	Responsible Party
Lat/Long:	34.19027 / -118.5909
APN:	NONE SPECIFIED
Past Use:	RAILROAD RIGHT OF WAY
Potential COC:	30001, 30013
Confirmed COC:	30001,30013
Potential Description:	SOIL
Alias Name:	110033605873
Alias Type:	EPA (FRS #)
Alias Name:	301216
Alias Type:	Project Code (Site Code)
Alias Name:	60000187
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Completion Report
Completed Date:	10/29/2004
Comments:	The report summarizes the expedited removal of soil containing elevated levels of arsenic and lead along the right of way.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Characterization Report
Completed Date:	01/29/2004
Comments:	The Report summarized sampling data for the MTA right-of-way.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	02/26/2004
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported

MTA ORANGE LINE (Continued) **S107736792**

Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

105
SSE
1/2-1
0.795 mi.
4199 ft.

THE PLAZA AT WARNER CENTER **CA ENVIROSTOR** **S106665612**
6200-6250 CANOGA AVENUE **N/A**
WOODLAND HILLS, CA 93041

Relative:
Higher

Actual:
817 ft.

ENVIROSTOR:
Facility ID: 19000030
Status: Refer: 1248 Local Agency
Status Date: 03/18/2004
Site Code: Not reported
Site Type: Evaluation
Site Type Detailed: Evaluation
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Referred - Not Assigned
Division Branch: Cleanup Cypress
Assembly: 41
Senate: Not reported
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not Applicable
Latitude: 34.18356
Longitude: -118.5969
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: 19000030
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported

THE PLAZA AT WARNER CENTER (Continued) **S106665612**

Schedule Revised Date: Not reported

106
ENE
1/2-1
0.968 mi.
5112 ft.

EL PROYECTO DEL BARRIO-CANOGA PARK CLINI **CA ENVIROSTOR** **S118756554**
20800 SHERMAN WAY **N/A**
CANOGA PARK, CA 91306

Relative:
Lower

Actual:
784 ft.

ENVIROSTOR:

Facility ID:	19800030
Status:	No Action Required
Status Date:	12/20/1995
Site Code:	300586
Site Type:	Calmortgage
Site Type Detailed:	Calmortgage
Acres:	0
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Sandra Karinen
Supervisor:	William Beckman
Division Branch:	Cleanup Sacramento
Assembly:	45
Senate:	27
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	CalMortgage
Latitude:	34.20052
Longitude:	-118.5864
APN:	NONE SPECIFIED
Past Use:	NONE
Potential COC:	NONE SPECIFIED No Contaminants found
Confirmed COC:	No Contaminants found
Potential Description:	NMA
Alias Name:	300586
Alias Type:	Project Code (Site Code)
Alias Name:	19800030
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Phase 1
Completed Date:	12/20/1995
Comments:	Pursuant to the MOU, DTSC has reviewed a Phase I Site Assessment for El Proyecto del Barrio (EPB). The subject property currently contains a vacant one-story hospital building. EPB is proposing to demolish the building in order to construct a new comprehensive health services center on the site to be owned and operated by EPB. A Supplemental Phase I Environmental Assessment Report was prepared by DTSC and concluded that no action was needed for this property; there is no contamination on the property.
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported

EL PROYECTO DEL BARRIO-CANOGA PARK CLINI (Continued) **S118756554**

Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

Count: 1 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
LOS ANGELES COUNTY	1015730671	FLOWSERVE CORPORATION	POSTAL ADDRESS IS UNAVAILABLE		SEMS

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 08/13/2018
Date Data Arrived at EDR: 10/04/2018
Date Made Active in Reports: 11/09/2018
Number of Days to Update: 36

Source: EPA
Telephone: N/A
Last EDR Contact: 11/27/2018
Next Scheduled EDR Contact: 01/14/2019
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 08/13/2018
Date Data Arrived at EDR: 10/04/2018
Date Made Active in Reports: 11/09/2018
Number of Days to Update: 36

Source: EPA
Telephone: N/A
Last EDR Contact: 11/27/2018
Next Scheduled EDR Contact: 01/14/2019
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 08/13/2018
Date Data Arrived at EDR: 10/04/2018
Date Made Active in Reports: 11/09/2018
Number of Days to Update: 36

Source: EPA
Telephone: N/A
Last EDR Contact: 11/27/2018
Next Scheduled EDR Contact: 01/14/2019
Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 11/07/2016
Date Data Arrived at EDR: 01/05/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 92

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 07/06/2018
Next Scheduled EDR Contact: 10/15/2018
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 08/13/2018
Date Data Arrived at EDR: 10/04/2018
Date Made Active in Reports: 11/16/2018
Number of Days to Update: 43

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 11/27/2018
Next Scheduled EDR Contact: 01/28/2019
Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 08/13/2018
Date Data Arrived at EDR: 10/04/2018
Date Made Active in Reports: 11/16/2018
Number of Days to Update: 43

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 11/28/2018
Next Scheduled EDR Contact: 01/28/2019
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 09/19/2018
Next Scheduled EDR Contact: 01/07/2019
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 09/19/2018
Next Scheduled EDR Contact: 01/07/2019
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 09/19/2018
Next Scheduled EDR Contact: 01/07/2019
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 09/19/2018
Next Scheduled EDR Contact: 01/07/2019
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 09/19/2018
Next Scheduled EDR Contact: 01/07/2019
Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 05/14/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 10/15/2018
Next Scheduled EDR Contact: 02/25/2019
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 07/31/2018
Date Data Arrived at EDR: 08/28/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 17

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 11/28/2018
Next Scheduled EDR Contact: 03/11/2019
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 07/31/2018
Date Data Arrived at EDR: 08/28/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 17

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 11/28/2018
Next Scheduled EDR Contact: 03/11/2019
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 09/24/2018
Date Data Arrived at EDR: 09/25/2018
Date Made Active in Reports: 11/09/2018
Number of Days to Update: 45

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 09/25/2018
Next Scheduled EDR Contact: 01/07/2019
Data Release Frequency: Quarterly

State- and tribal - equivalent NPL

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 07/30/2018
Date Data Arrived at EDR: 07/31/2018
Date Made Active in Reports: 09/07/2018
Number of Days to Update: 38

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 10/30/2018
Next Scheduled EDR Contact: 02/11/2019
Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 07/30/2018
Date Data Arrived at EDR: 07/31/2018
Date Made Active in Reports: 09/07/2018
Number of Days to Update: 38

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 10/30/2018
Next Scheduled EDR Contact: 02/11/2019
Data Release Frequency: Quarterly

State and tribal landfill and/or solid waste disposal site lists

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inve ntory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 08/08/2018
Date Data Arrived at EDR: 08/10/2018
Date Made Active in Reports: 08/24/2018
Number of Days to Update: 14

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 11/14/2018
Next Scheduled EDR Contact: 02/25/2019
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 7: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST: Leaking Underground Fuel Tank Report (GEOTRACKER)

Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 09/10/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 10/08/2018
Number of Days to Update: 26

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 09/12/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Quarterly

LUST REG 9: Leaking Underground Storage Tank Report

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

LUST REG 6V: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing

For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 5: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List

Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

LUST REG 3: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 04/12/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 10/26/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 04/10/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 10/26/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 04/25/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63
Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 10/26/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 04/24/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 10/26/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 04/01/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63
Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 10/26/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 05/08/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63
Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 10/26/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/13/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63
Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 10/26/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 04/12/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63
Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 10/26/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

CPS-SLIC: Statewide SLIC Cases (GEOTRACKER)
Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 09/10/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 10/09/2018
Number of Days to Update: 27
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: Semi-Annually

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Varies

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Semi-Annually

SLIC REG 6L: SLIC Sites
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35
Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36
Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11
Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17
Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: Annually

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 05/15/2017
Date Data Arrived at EDR: 05/30/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 136
Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 10/10/2018
Next Scheduled EDR Contact: 01/21/2019
Data Release Frequency: Varies

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 09/10/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 10/03/2018
Number of Days to Update: 21
Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 09/12/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Semi-Annually

UST CLOSURE: Proposed Closure of Underground Storage Tank (UST) Cases

UST cases that are being considered for closure by either the State Water Resources Control Board or the Executive Director have been posted for a 60-day public comment period. UST Case Closures being proposed for consideration by the State Water Resources Control Board. These are primarily UST cases that meet closure criteria under the decisional framework in State Water Board Resolution No. 92-49 and other Board orders. UST Case Closures proposed for consideration by the Executive Director pursuant to State Water Board Resolution No. 2012-0061. These are cases that meet the criteria of the Low-Threat UST Case Closure Policy. UST Case Closure Review Denials and Approved Orders.

Date of Government Version: 09/10/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 10/03/2018
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: 916-327-7844
Last EDR Contact: 09/12/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Varies

MILITARY UST SITES: Military UST Sites (GEOTRACKER)

Military ust sites

Date of Government Version: 09/10/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 10/09/2018
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Varies

AST: Aboveground Petroleum Storage Tank Facilities

A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 09/19/2016
Number of Days to Update: 69

Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 09/17/2018
Next Scheduled EDR Contact: 12/31/2018
Data Release Frequency: Quarterly

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 05/08/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 10/26/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 04/12/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 10/26/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 04/10/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 10/26/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 04/12/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 10/26/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 04/13/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 10/26/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 04/24/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 10/26/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 04/01/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 10/26/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 04/25/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 10/26/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 07/30/2018
Date Data Arrived at EDR: 07/31/2018
Date Made Active in Reports: 09/07/2018
Number of Days to Update: 38

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 10/30/2018
Next Scheduled EDR Contact: 02/11/2019
Data Release Frequency: Quarterly

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 09/24/2018
Next Scheduled EDR Contact: 01/07/2019
Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Considered Brownfieds Sites Listing

A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 09/24/2018
Date Data Arrived at EDR: 09/25/2018
Date Made Active in Reports: 10/15/2018
Number of Days to Update: 20

Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 09/25/2018
Next Scheduled EDR Contact: 01/07/2019
Data Release Frequency: Quarterly

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 09/18/2018
Date Data Arrived at EDR: 09/18/2018
Date Made Active in Reports: 11/09/2018
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 09/18/2018
Next Scheduled EDR Contact: 12/31/2018
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT: Waste Management Unit Database

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 10/25/2018
Next Scheduled EDR Contact: 02/11/2019
Data Release Frequency: No Update Planned

SWRCY: Recycler Database
A listing of recycling facilities in California.

Date of Government Version: 09/10/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 10/15/2018
Number of Days to Update: 33

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 09/12/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing
A listing of registered waste tire haulers.

Date of Government Version: 09/26/2018
Date Data Arrived at EDR: 09/28/2018
Date Made Active in Reports: 11/01/2018
Number of Days to Update: 34

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 08/07/2018
Next Scheduled EDR Contact: 02/25/2019
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 10/25/2018
Next Scheduled EDR Contact: 02/11/2019
Data Release Frequency: Varies

ODI: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 10/22/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land
A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 11/02/2018
Next Scheduled EDR Contact: 02/11/2019
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 09/21/2018
Date Data Arrived at EDR: 09/21/2018
Date Made Active in Reports: 11/09/2018
Number of Days to Update: 49

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 11/26/2018
Next Scheduled EDR Contact: 03/11/2019
Data Release Frequency: No Update Planned

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21

Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 07/30/2018
Date Data Arrived at EDR: 07/31/2018
Date Made Active in Reports: 09/07/2018
Number of Days to Update: 38

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 10/30/2018
Next Scheduled EDR Contact: 02/11/2019
Data Release Frequency: Quarterly

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/12/2018
Date Made Active in Reports: 08/06/2018
Number of Days to Update: 55

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 11/01/2018
Next Scheduled EDR Contact: 01/21/2019
Data Release Frequency: Varies

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 09/21/2018
Date Data Arrived at EDR: 09/21/2018
Date Made Active in Reports: 11/09/2018
Number of Days to Update: 49

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 11/26/2018
Next Scheduled EDR Contact: 03/11/2019
Data Release Frequency: Quarterly

CERS HAZ WASTE: CERS HAZ WASTE

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

Date of Government Version: 07/23/2018
Date Data Arrived at EDR: 07/25/2018
Date Made Active in Reports: 09/05/2018
Number of Days to Update: 42

Source: CalEPA
Telephone: 916-323-2514
Last EDR Contact: 10/23/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Quarterly

Local Lists of Registered Storage Tanks

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

UST MENDOCINO: Mendocino County UST Database

A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 03/28/2018
Date Data Arrived at EDR: 05/25/2018
Date Made Active in Reports: 07/10/2018
Number of Days to Update: 46

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 11/26/2018
Next Scheduled EDR Contact: 03/11/2019
Data Release Frequency: Annually

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SAN FRANCISCO AST: Aboveground Storage Tank Site Listing

Aboveground storage tank sites

Date of Government Version: 09/11/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 10/11/2018
Number of Days to Update: 29

Source: San Francisco County Department of Public Health
Telephone: 415-252-3896
Last EDR Contact: 11/01/2018
Next Scheduled EDR Contact: 02/18/2019
Data Release Frequency: Varies

CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CERS TANKS: California Environmental Reporting System (CERS) Tanks

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

Date of Government Version: 07/23/2018
Date Data Arrived at EDR: 07/25/2018
Date Made Active in Reports: 09/05/2018
Number of Days to Update: 42

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 10/23/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Quarterly

Local Land Records

LIENS: Environmental Liens Listing

A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 08/29/2018
Date Data Arrived at EDR: 08/30/2018
Date Made Active in Reports: 10/01/2018
Number of Days to Update: 32

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 11/29/2018
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 08/13/2018
Date Data Arrived at EDR: 10/04/2018
Date Made Active in Reports: 11/16/2018
Number of Days to Update: 43

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 11/27/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Semi-Annually

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 09/04/2018
Date Data Arrived at EDR: 09/05/2018
Date Made Active in Reports: 10/02/2018
Number of Days to Update: 27

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 09/05/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System
Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 03/26/2018
Date Data Arrived at EDR: 03/27/2018
Date Made Active in Reports: 06/08/2018
Number of Days to Update: 73

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 09/25/2018
Next Scheduled EDR Contact: 01/07/2019
Data Release Frequency: Quarterly

CHMIRS: California Hazardous Material Incident Report System
California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 04/06/2018
Date Data Arrived at EDR: 04/24/2018
Date Made Active in Reports: 06/14/2018
Number of Days to Update: 51

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 07/27/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Semi-Annually

LDS: Land Disposal Sites Listing (GEOTRACKER)
Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 09/10/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 10/08/2018
Number of Days to Update: 26

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing (GEOTRACKER)
Military sites (consisting of: Military UST sites; Military Privatized sites; and Military Cleanup sites [formerly known as DoD non UST]) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 09/10/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 10/09/2018
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch
Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated
RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 09/19/2018
Next Scheduled EDR Contact: 01/07/2019
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 01/31/2015
Date Data Arrived at EDR: 07/08/2015
Date Made Active in Reports: 10/13/2015
Number of Days to Update: 97

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 11/19/2018
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 10/12/2018
Next Scheduled EDR Contact: 01/21/2019
Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 10/12/2018
Next Scheduled EDR Contact: 01/21/2019
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 11/16/2018
Next Scheduled EDR Contact: 02/25/2019
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 08/31/2018
Date Data Arrived at EDR: 09/25/2018
Date Made Active in Reports: 11/09/2018
Number of Days to Update: 45

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 09/25/2018
Next Scheduled EDR Contact: 01/07/2019
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 11/05/2018
Next Scheduled EDR Contact: 02/18/2019
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 11/09/2018
Next Scheduled EDR Contact: 02/18/2019
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 06/21/2017
Date Made Active in Reports: 01/05/2018
Number of Days to Update: 198

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 09/21/2018
Next Scheduled EDR Contact: 12/31/2018
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 01/10/2018
Date Made Active in Reports: 01/12/2018
Number of Days to Update: 2

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 11/16/2018
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 10/24/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 08/13/2018
Date Data Arrived at EDR: 10/04/2018
Date Made Active in Reports: 11/16/2018
Number of Days to Update: 43

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 11/27/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 08/01/2018
Date Data Arrived at EDR: 08/22/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 10/23/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 08/13/2018
Date Data Arrived at EDR: 10/04/2018
Date Made Active in Reports: 11/09/2018
Number of Days to Update: 36

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 10/04/2018
Next Scheduled EDR Contact: 02/18/2019
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 06/01/2017
Date Data Arrived at EDR: 06/09/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 126

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 10/11/2018
Next Scheduled EDR Contact: 01/21/2019
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 10/09/2018
Next Scheduled EDR Contact: 01/21/2019
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: Quarterly

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 08/30/2016
Date Data Arrived at EDR: 09/08/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 43

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 10/11/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 09/07/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 09/10/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 09/04/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 05/24/2017
Date Data Arrived at EDR: 11/30/2017
Date Made Active in Reports: 12/15/2017
Number of Days to Update: 15
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 10/26/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 10/02/2018
Date Data Arrived at EDR: 10/03/2018
Date Made Active in Reports: 11/09/2018
Number of Days to Update: 37
Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 10/03/2018
Next Scheduled EDR Contact: 01/14/2019
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data
Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42
Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 10/30/2018
Next Scheduled EDR Contact: 02/11/2019
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees
Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 06/30/2018
Date Data Arrived at EDR: 07/17/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 80

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 10/01/2018
Next Scheduled EDR Contact: 12/31/2018
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 09/28/2017
Number of Days to Update: 218

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 11/21/2018
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 10/09/2018
Next Scheduled EDR Contact: 01/21/2019
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 08/08/2017
Date Data Arrived at EDR: 09/11/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 3

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 11/01/2018
Next Scheduled EDR Contact: 02/18/2019
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 06/23/2017
Date Data Arrived at EDR: 10/11/2017
Date Made Active in Reports: 11/03/2017
Number of Days to Update: 23

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 11/16/2018
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 08/13/2018
Date Data Arrived at EDR: 10/04/2018
Date Made Active in Reports: 11/16/2018
Number of Days to Update: 43

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 11/27/2018
Next Scheduled EDR Contact: 01/14/2019
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/01/2018
Date Data Arrived at EDR: 08/29/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 37

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 08/29/2018
Next Scheduled EDR Contact: 12/10/2018
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005
Date Data Arrived at EDR: 02/29/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 49

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 08/31/2018
Next Scheduled EDR Contact: 12/10/2018
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 08/31/2018
Next Scheduled EDR Contact: 12/10/2018
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 09/10/2018
Date Data Arrived at EDR: 09/11/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 3

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 09/10/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 08/07/2018
Date Data Arrived at EDR: 09/05/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 30

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 09/18/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 06/19/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 87

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 10/15/2018
Next Scheduled EDR Contact: 01/28/2019
Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 09/02/2018
Date Data Arrived at EDR: 09/05/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 9

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 09/05/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Quarterly

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 07/26/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 71

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 08/31/2018
Next Scheduled EDR Contact: 12/10/2018
Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 08/22/2018
Date Data Arrived at EDR: 08/22/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 44

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 11/19/2018
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Quarterly

CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6

Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CORTESE: "Cortese" Hazardous Waste & Substances Sites List

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 09/24/2018
Date Data Arrived at EDR: 09/25/2018
Date Made Active in Reports: 10/16/2018
Number of Days to Update: 21

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 09/25/2018
Next Scheduled EDR Contact: 01/07/2019
Data Release Frequency: Quarterly

CUPA LIVERMORE-PLEASANTON: CUPA Facility Listing

list of facilities associated with the various CUPA programs in Livermore-Pleasanton

Date of Government Version: 08/28/2018
Date Data Arrived at EDR: 08/30/2018
Date Made Active in Reports: 11/01/2018
Number of Days to Update: 63

Source: Livermore-Pleasanton Fire Department
Telephone: 925-454-2361
Last EDR Contact: 11/26/2018
Next Scheduled EDR Contact: 02/25/2019
Data Release Frequency: Varies

CUPA SAN FRANCISCO CO: CUPA Facility Listing

Cupa facilities

Date of Government Version: 09/11/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 09/19/2018
Number of Days to Update: 7

Source: San Francisco County Department of Environmental Health
Telephone: 415-252-3896
Last EDR Contact: 11/01/2018
Next Scheduled EDR Contact: 02/18/2019
Data Release Frequency: Varies

DRYCLEAN AVAQMD: Antelope Valley Air Quality Management District Drycleaner Listing

A listing of dry cleaners in the Antelope Valley Air Quality Management District.

Date of Government Version: 10/15/2018
Date Data Arrived at EDR: 10/16/2018
Date Made Active in Reports: 11/16/2018
Number of Days to Update: 31

Source: Antelope Valley Air Quality Management District
Telephone: 661-723-8070
Last EDR Contact: 11/29/2018
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: Varies

DRYCLEAN SOUTH COAST: South Coast Air Quality Management District Drycleaner Listing

A listing of dry cleaners in the South Coast Air Quality Management District

Date of Government Version: 10/04/2018
Date Data Arrived at EDR: 10/05/2018
Date Made Active in Reports: 11/01/2018
Number of Days to Update: 27

Source: South Coast Air Quality Management District
Telephone: 909-396-3211
Last EDR Contact: 11/26/2018
Next Scheduled EDR Contact: 03/11/2019
Data Release Frequency: Varies

DRYCLEANERS: Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 08/30/2018
Date Data Arrived at EDR: 09/27/2018
Date Made Active in Reports: 11/01/2018
Number of Days to Update: 35

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 11/29/2018
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: Annually

EMI: Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/20/2018
Date Made Active in Reports: 08/06/2018
Number of Days to Update: 47

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 09/21/2018
Next Scheduled EDR Contact: 12/31/2018
Data Release Frequency: Varies

ENF: Enforcement Action Listing

A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 08/01/2018
Date Data Arrived at EDR: 08/02/2018
Date Made Active in Reports: 09/07/2018
Number of Days to Update: 36

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 11/01/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

Financial Assurance information

Date of Government Version: 07/17/2018
Date Data Arrived at EDR: 07/24/2018
Date Made Active in Reports: 09/10/2018
Number of Days to Update: 48

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 10/22/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 08/14/2018
Date Data Arrived at EDR: 08/16/2018
Date Made Active in Reports: 09/10/2018
Number of Days to Update: 25

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 11/07/2018
Next Scheduled EDR Contact: 02/25/2019
Data Release Frequency: Varies

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 10/10/2018
Date Made Active in Reports: 11/16/2018
Number of Days to Update: 37

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 10/10/2018
Next Scheduled EDR Contact: 01/21/2019
Data Release Frequency: Annually

ICE: ICE
Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 08/20/2018
Date Data Arrived at EDR: 08/21/2018
Date Made Active in Reports: 09/10/2018
Number of Days to Update: 20

Source: Department of Toxic Subsances Control
Telephone: 877-786-9427
Last EDR Contact: 11/19/2018
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Quarterly

HIST CORTESE: Hazardous Waste & Substance Site List
The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HWP: EnviroStor Permitted Facilities Listing
Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 08/20/2018
Date Data Arrived at EDR: 08/21/2018
Date Made Active in Reports: 09/10/2018
Number of Days to Update: 20

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 11/19/2018
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Quarterly

HWT: Registered Hazardous Waste Transporter Database
A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 10/09/2018
Date Data Arrived at EDR: 10/10/2018
Date Made Active in Reports: 11/16/2018
Number of Days to Update: 37

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 10/10/2018
Next Scheduled EDR Contact: 01/21/2019
Data Release Frequency: Quarterly

MINES: Mines Site Location Listing
A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 09/10/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 10/09/2018
Number of Days to Update: 27

Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 09/12/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Quarterly

MWMP: Medical Waste Management Program Listing
The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 08/28/2018
Date Data Arrived at EDR: 09/05/2018
Date Made Active in Reports: 10/03/2018
Number of Days to Update: 28

Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 09/05/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Varies

NPDES: NPDES Permits Listing
A listing of NPDES permits, including stormwater.

Date of Government Version: 08/09/2018
Date Data Arrived at EDR: 08/10/2018
Date Made Active in Reports: 09/10/2018
Number of Days to Update: 31
Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 11/14/2018
Next Scheduled EDR Contact: 02/25/2019
Data Release Frequency: Quarterly

PEST LIC: Pesticide Regulation Licenses Listing
A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

Date of Government Version: 09/04/2018
Date Data Arrived at EDR: 09/05/2018
Date Made Active in Reports: 10/03/2018
Number of Days to Update: 28
Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 09/05/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Quarterly

PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 09/10/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 10/15/2018
Number of Days to Update: 33
Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 09/12/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Quarterly

NOTIFY 65: Proposition 65 Records
Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 09/19/2018
Date Data Arrived at EDR: 09/20/2018
Date Made Active in Reports: 10/19/2018
Number of Days to Update: 29
Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 09/17/2018
Next Scheduled EDR Contact: 12/31/2018
Data Release Frequency: No Update Planned

UIC: UIC Listing
A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 04/27/2018
Date Data Arrived at EDR: 06/13/2018
Date Made Active in Reports: 07/17/2018
Number of Days to Update: 34
Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 09/13/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Varies

WASTEWATER PITS: Oil Wastewater Pits Listing
Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality Control Board revealed the existence of previously unidentified waste sites. The water boards review found that more than one-third of the region's active disposal pits are operating without permission.

Date of Government Version: 05/08/2018
Date Data Arrived at EDR: 07/11/2018
Date Made Active in Reports: 09/13/2018
Number of Days to Update: 64
Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 10/12/2018
Next Scheduled EDR Contact: 01/21/2019
Data Release Frequency: Varies

WDS: Waste Discharge System
Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9
Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 11/14/2018
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Quarterly

WIP: Well Investigation Program Case List
Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13
Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 09/25/2018
Next Scheduled EDR Contact: 01/07/2019
Data Release Frequency: Varies

OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)
Other Oil & Gas Projects sites

Date of Government Version: 09/10/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 10/09/2018
Number of Days to Update: 27
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Varies

CIWQS: California Integrated Water Quality System
The California Integrated Water Quality System (CIWQS) is a computer system used by the State and Regional Water Quality Control Boards to track information about places of environmental interest, manage permits and other orders, track inspections, and manage violations and enforcement activities.

Date of Government Version: 09/04/2018
Date Data Arrived at EDR: 09/05/2018
Date Made Active in Reports: 10/02/2018
Number of Days to Update: 27
Source: State Water Resources Control Board
Telephone: 866-794-4977
Last EDR Contact: 09/05/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Varies

WDR: Waste Discharge Requirements Listing
In general, the Waste Discharge Requirements (WDRs) Program (sometimes also referred to as the "Non Chapter 15 (Non 15) Program") regulates point discharges that are exempt pursuant to Subsection 20090 of Title 27 and not subject to the Federal Water Pollution Control Act. Exemptions from Title 27 may be granted for nine categories of discharges (e.g., sewage, wastewater, etc.) that meet, and continue to meet, the preconditions listed for each specific exemption. The scope of the WDRs Program also includes the discharge of wastes classified as inert, pursuant to section 20230 of Title 27.

Date of Government Version: 09/10/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 10/09/2018
Number of Days to Update: 27
Source: State Water Resources Control Board
Telephone: 916-341-5810
Last EDR Contact: 09/12/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Quarterly

WELL STIM PROJ: Well Stimulation Project (GEOTRACKER)
Includes areas of groundwater monitoring plans, a depiction of the monitoring network, and the facilities, boundaries, and subsurface characteristics of the oilfield and the features (oil and gas wells, produced water ponds, UIC wells, water supply wells, etc?) being monitored

Date of Government Version: 09/10/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 10/09/2018
Number of Days to Update: 27
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Varies

PROJECT: Project Sites (GEOTRACKER)
Projects sites

Date of Government Version: 09/10/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 10/09/2018
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Varies

UIC GEO: Underground Injection Control Sites (GEOTRACKER)
Underground control injection sites

Date of Government Version: 09/10/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 10/09/2018
Number of Days to Update: 27

Source: State Water Resource Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Varies

NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)
Non-Case Information sites

Date of Government Version: 09/10/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 10/09/2018
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Varies

CERS: CalEPA Regulated Site Portal Data
The CalEPA Regulated Site Portal database combines data about environmentally regulated sites and facilities in California into a single database. It combines data from a variety of state and federal databases, and provides an overview of regulated activities across the spectrum of environmental programs for any given location in California. These activities include hazardous materials and waste, state and federal cleanups, impacted ground and surface waters, and toxic materials

Date of Government Version: 07/23/2018
Date Data Arrived at EDR: 07/25/2018
Date Made Active in Reports: 09/05/2018
Number of Days to Update: 42

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 10/23/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

SAMPLING POINT: Sampling Point ? Public Sites (GEOTRACKER)
Sampling point - public sites

Date of Government Version: 09/10/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 10/09/2018
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Varies

PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER)
Produced water ponds sites

Date of Government Version: 09/10/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 10/09/2018
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Varies

MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)
Military privatized sites

Date of Government Version: 09/10/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 10/09/2018
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

CS ALAMEDA: Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 10/05/2018
Date Data Arrived at EDR: 10/10/2018
Date Made Active in Reports: 11/01/2018
Number of Days to Update: 22

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 10/05/2018
Next Scheduled EDR Contact: 01/21/2019
Data Release Frequency: Semi-Annually

UST ALAMEDA: Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 10/05/2018
Date Data Arrived at EDR: 10/10/2018
Date Made Active in Reports: 11/02/2018
Number of Days to Update: 23

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 10/05/2018
Next Scheduled EDR Contact: 04/24/2047
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA AMADOR: CUPA Facility List

Cupa Facility List

Date of Government Version: 07/01/2018
Date Data Arrived at EDR: 07/24/2018
Date Made Active in Reports: 08/20/2018
Number of Days to Update: 27

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 11/29/2018
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA BUTTE: CUPA Facility Listing
Cupa facility list.

Date of Government Version: 04/21/2017
Date Data Arrived at EDR: 04/25/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 106

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 10/05/2018
Next Scheduled EDR Contact: 01/21/2019
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA CALVERAS: CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 08/02/2018
Date Data Arrived at EDR: 08/06/2018
Date Made Active in Reports: 08/20/2018
Number of Days to Update: 14

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 09/24/2018
Next Scheduled EDR Contact: 01/07/2019
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA COLUSA: CUPA Facility List
Cupa facility list.

Date of Government Version: 05/23/2018
Date Data Arrived at EDR: 05/24/2018
Date Made Active in Reports: 07/13/2018
Number of Days to Update: 50

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 11/14/2018
Next Scheduled EDR Contact: 02/18/2019
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

SL CONTRA COSTA: Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 08/20/2018
Date Data Arrived at EDR: 08/21/2018
Date Made Active in Reports: 09/11/2018
Number of Days to Update: 21

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 10/29/2018
Next Scheduled EDR Contact: 02/11/2019
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA DEL NORTE: CUPA Facility List
Cupa Facility list

Date of Government Version: 08/16/2018
Date Data Arrived at EDR: 11/06/2018
Date Made Active in Reports: 11/14/2018
Number of Days to Update: 8

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 10/25/2018
Next Scheduled EDR Contact: 02/11/2019
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA EL DORADO: CUPA Facility List
CUPA facility list.

Date of Government Version: 09/04/2018
Date Data Arrived at EDR: 09/05/2018
Date Made Active in Reports: 09/18/2018
Number of Days to Update: 13

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 11/16/2018
Next Scheduled EDR Contact: 02/11/2019
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA FRESNO: CUPA Resources List
Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 10/16/2018
Date Data Arrived at EDR: 10/18/2018
Date Made Active in Reports: 11/14/2018
Number of Days to Update: 27

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 10/15/2018
Next Scheduled EDR Contact: 01/14/2019
Data Release Frequency: Semi-Annually

GLENN COUNTY:

CUPA GLENN: CUPA Facility List
Cupa facility list

Date of Government Version: 01/22/2018
Date Data Arrived at EDR: 01/24/2018
Date Made Active in Reports: 03/14/2018
Number of Days to Update: 49

Source: Glenn County Air Pollution Control District
Telephone: 830-934-6500
Last EDR Contact: 10/22/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

HUMBOLDT COUNTY:

CUPA HUMBOLDT: CUPA Facility List
CUPA facility list.

Date of Government Version: 07/11/2018
Date Data Arrived at EDR: 07/13/2018
Date Made Active in Reports: 08/22/2018
Number of Days to Update: 40

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 11/19/2018
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Semi-Annually

IMPERIAL COUNTY:

CUPA IMPERIAL: CUPA Facility List
Cupa facility list.

Date of Government Version: 10/22/2018
Date Data Arrived at EDR: 10/25/2018
Date Made Active in Reports: 11/14/2018
Number of Days to Update: 20

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 10/22/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

INYO COUNTY:

CUPA INYO: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/03/2018
Date Made Active in Reports: 06/14/2018
Number of Days to Update: 72

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 11/14/2018
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Varies

KERN COUNTY:

UST KERN: Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 07/20/2018
Date Data Arrived at EDR: 07/25/2018
Date Made Active in Reports: 09/12/2018
Number of Days to Update: 49

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 11/01/2018
Next Scheduled EDR Contact: 02/18/2019
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA KINGS: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 08/23/2018
Date Data Arrived at EDR: 08/24/2018
Date Made Active in Reports: 09/18/2018
Number of Days to Update: 25

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 11/14/2018
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Varies

LAKE COUNTY:

CUPA LAKE: CUPA Facility List
Cupa facility list

Date of Government Version: 11/07/2018
Date Data Arrived at EDR: 11/08/2018
Date Made Active in Reports: 11/14/2018
Number of Days to Update: 6

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 10/15/2018
Next Scheduled EDR Contact: 01/28/2019
Data Release Frequency: Varies

LASSEN COUNTY:

CUPA LASSEN: CUPA Facility List
Cupa facility list

Date of Government Version: 10/15/2018
Date Data Arrived at EDR: 10/23/2018
Date Made Active in Reports: 11/14/2018
Number of Days to Update: 22

Source: Lassen County Environmental Health
Telephone: 530-251-8528
Last EDR Contact: 10/22/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

LOS ANGELES COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

AOCONCERN: San Gabriel Valley Areas of Concern
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206
Source: EPA Region 9
Telephone: 415-972-3178
Last EDR Contact: 09/17/2018
Next Scheduled EDR Contact: 12/31/2018
Data Release Frequency: No Update Planned

HMS LOS ANGELES: HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 09/20/2018
Date Data Arrived at EDR: 10/12/2018
Date Made Active in Reports: 11/16/2018
Number of Days to Update: 35
Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 10/05/2018
Next Scheduled EDR Contact: 01/21/2019
Data Release Frequency: Semi-Annually

LF LOS ANGELES: List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 10/15/2018
Date Data Arrived at EDR: 10/16/2018
Date Made Active in Reports: 11/16/2018
Number of Days to Update: 31
Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 10/16/2018
Next Scheduled EDR Contact: 01/28/2019
Data Release Frequency: Varies

LF LOS ANGELES CITY: City of Los Angeles Landfills
Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 01/01/2018
Date Data Arrived at EDR: 05/01/2018
Date Made Active in Reports: 05/14/2018
Number of Days to Update: 13
Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 10/15/2018
Next Scheduled EDR Contact: 01/28/2019
Data Release Frequency: Varies

SITE MIT LOS ANGELES: Site Mitigation List
Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 07/01/2018
Date Data Arrived at EDR: 10/16/2018
Date Made Active in Reports: 11/16/2018
Number of Days to Update: 31
Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 10/16/2018
Next Scheduled EDR Contact: 01/28/2019
Data Release Frequency: Annually

UST EL SEGUNDO: City of El Segundo Underground Storage Tank
Underground storage tank sites located in El Segundo city.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 04/19/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 21
Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 10/15/2018
Next Scheduled EDR Contact: 01/28/2019
Data Release Frequency: Semi-Annually

UST LONG BEACH: City of Long Beach Underground Storage Tank
Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 03/09/2017
Date Data Arrived at EDR: 03/10/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 54
Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 10/22/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Annually

UST TORRANCE: City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 10/02/2018
Date Data Arrived at EDR: 10/05/2018
Date Made Active in Reports: 11/02/2018
Number of Days to Update: 28

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 10/05/2018
Next Scheduled EDR Contact: 01/21/2019
Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA MADERA: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 08/30/2018
Date Data Arrived at EDR: 09/04/2018
Date Made Active in Reports: 09/19/2018
Number of Days to Update: 15

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 11/14/2018
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Varies

MARIN COUNTY:

UST MARIN: Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 09/26/2018
Date Data Arrived at EDR: 10/04/2018
Date Made Active in Reports: 11/02/2018
Number of Days to Update: 29

Source: Public Works Department Waste Management
Telephone: 415-473-6647
Last EDR Contact: 10/01/2018
Next Scheduled EDR Contact: 01/14/2019
Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA MERCED: CUPA Facility List
CUPA facility list.

Date of Government Version: 08/29/2018
Date Data Arrived at EDR: 08/31/2018
Date Made Active in Reports: 09/19/2018
Number of Days to Update: 19

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 11/14/2018
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Varies

MONO COUNTY:

CUPA MONO: CUPA Facility List
CUPA Facility List

Date of Government Version: 07/18/2018
Date Data Arrived at EDR: 09/04/2018
Date Made Active in Reports: 09/19/2018
Number of Days to Update: 15

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 11/26/2018
Next Scheduled EDR Contact: 03/11/2019
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA MONTEREY: CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 10/29/2018
Date Data Arrived at EDR: 11/01/2018
Date Made Active in Reports: 11/16/2018
Number of Days to Update: 15

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 10/01/2018
Next Scheduled EDR Contact: 01/14/2019
Data Release Frequency: Varies

NAPA COUNTY:

LUST NAPA: Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 50

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 11/21/2018
Next Scheduled EDR Contact: 03/11/2019
Data Release Frequency: No Update Planned

UST NAPA: Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 08/27/2018
Date Data Arrived at EDR: 08/28/2018
Date Made Active in Reports: 10/03/2018
Number of Days to Update: 36

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 11/26/2018
Next Scheduled EDR Contact: 03/11/2019
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA NEVADA: CUPA Facility List
CUPA facility list.

Date of Government Version: 11/06/2018
Date Data Arrived at EDR: 11/08/2018
Date Made Active in Reports: 11/14/2018
Number of Days to Update: 6

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 10/25/2018
Next Scheduled EDR Contact: 02/11/2019
Data Release Frequency: Varies

ORANGE COUNTY:

IND_SITE ORANGE: List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 07/13/2018
Date Data Arrived at EDR: 08/08/2018
Date Made Active in Reports: 09/10/2018
Number of Days to Update: 33

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 11/05/2018
Next Scheduled EDR Contact: 02/18/2019
Data Release Frequency: Annually

LUST ORANGE: List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 07/13/2018
Date Data Arrived at EDR: 08/08/2018
Date Made Active in Reports: 09/10/2018
Number of Days to Update: 33

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 11/05/2018
Next Scheduled EDR Contact: 02/18/2019
Data Release Frequency: Quarterly

UST ORANGE: List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 07/13/2018
Date Data Arrived at EDR: 08/06/2018
Date Made Active in Reports: 09/12/2018
Number of Days to Update: 37

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 11/06/2018
Next Scheduled EDR Contact: 02/18/2019
Data Release Frequency: Quarterly

PLACER COUNTY:

MS PLACER: Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 09/04/2018
Date Data Arrived at EDR: 09/06/2018
Date Made Active in Reports: 10/03/2018
Number of Days to Update: 27

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 11/29/2018
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: Semi-Annually

PLUMAS COUNTY:

CUPA PLUMAS: CUPA Facility List
Plumas County CUPA Program facilities.

Date of Government Version: 07/19/2018
Date Data Arrived at EDR: 07/25/2018
Date Made Active in Reports: 09/05/2018
Number of Days to Update: 42

Source: Plumas County Environmental Health
Telephone: 530-283-6355
Last EDR Contact: 10/22/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

RIVERSIDE COUNTY:

LUST RIVERSIDE: Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 10/10/2018
Date Data Arrived at EDR: 10/12/2018
Date Made Active in Reports: 10/16/2018
Number of Days to Update: 4

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 09/17/2018
Next Scheduled EDR Contact: 12/31/2018
Data Release Frequency: Quarterly

UST RIVERSIDE: Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 10/10/2018
Date Data Arrived at EDR: 10/12/2018
Date Made Active in Reports: 11/05/2018
Number of Days to Update: 24

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 09/17/2018
Next Scheduled EDR Contact: 12/31/2018
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

CS SACRAMENTO: Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 08/03/2018
Date Data Arrived at EDR: 10/02/2018
Date Made Active in Reports: 11/01/2018
Number of Days to Update: 30

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 10/02/2018
Next Scheduled EDR Contact: 01/14/2019
Data Release Frequency: Quarterly

ML SACRAMENTO: Master Hazardous Materials Facility List

Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 08/23/2018
Date Data Arrived at EDR: 10/02/2018
Date Made Active in Reports: 11/02/2018
Number of Days to Update: 31

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 10/02/2018
Next Scheduled EDR Contact: 01/14/2019
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA SAN BENITO: CUPA Facility List

Cupa facility list

Date of Government Version: 08/07/2018
Date Data Arrived at EDR: 08/09/2018
Date Made Active in Reports: 09/05/2018
Number of Days to Update: 27

Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 11/14/2018
Next Scheduled EDR Contact: 02/18/2019
Data Release Frequency: Varies

SAN BERNARDINO COUNTY:

PERMITS SAN BERNARDINO: Hazardous Material Permits

This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 07/27/2018
Date Data Arrived at EDR: 07/31/2018
Date Made Active in Reports: 09/10/2018
Number of Days to Update: 41

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 11/05/2018
Next Scheduled EDR Contact: 02/18/2019
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

HMMD SAN DIEGO: Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 06/04/2018
Date Data Arrived at EDR: 06/06/2018
Date Made Active in Reports: 07/17/2018
Number of Days to Update: 41

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 09/06/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Quarterly

LF SAN DIEGO: Solid Waste Facilities
San Diego County Solid Waste Facilities.

Date of Government Version: 04/18/2018
Date Data Arrived at EDR: 04/24/2018
Date Made Active in Reports: 06/19/2018
Number of Days to Update: 56
Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 10/22/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

SAN DIEGO CO LOP: Local Oversight Program Listing
A listing of all LOP release sites that are or were under the County of San Diego's jurisdiction. Included are closed or transferred cases, open cases, and cases that did not have a case type indicated. The cases without a case type are mostly complaints; however, some of them could be LOP cases.

Date of Government Version: 07/17/2018
Date Data Arrived at EDR: 07/24/2018
Date Made Active in Reports: 08/24/2018
Number of Days to Update: 31
Source: Department of Environmental Health
Telephone: 858-505-6874
Last EDR Contact: 10/22/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

SAN DIEGO CO. SAM: Environmental Case Listing
The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24
Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 11/29/2018
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

LUST SAN FRANCISCO: Local Oversite Facilities
A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10
Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 11/01/2018
Next Scheduled EDR Contact: 02/18/2019
Data Release Frequency: Quarterly

UST SAN FRANCISCO: Underground Storage Tank Information
Underground storage tank sites located in San Francisco county.

Date of Government Version: 09/17/2018
Date Data Arrived at EDR: 09/18/2018
Date Made Active in Reports: 10/03/2018
Number of Days to Update: 15
Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 11/01/2018
Next Scheduled EDR Contact: 02/18/2019
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

UST SAN JOAQUIN: San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 06/22/2018
Date Data Arrived at EDR: 06/26/2018
Date Made Active in Reports: 07/11/2018
Number of Days to Update: 15
Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 09/17/2018
Next Scheduled EDR Contact: 12/31/2018
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA SAN LUIS OBISPO: CUPA Facility List
Cupa Facility List.

Date of Government Version: 08/20/2018
Date Data Arrived at EDR: 08/21/2018
Date Made Active in Reports: 09/07/2018
Number of Days to Update: 17

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 11/14/2018
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Varies

SAN MATEO COUNTY:

BI SAN MATEO: Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 09/18/2018
Date Data Arrived at EDR: 09/20/2018
Date Made Active in Reports: 11/01/2018
Number of Days to Update: 42

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 09/10/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Annually

LUST SAN MATEO: Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 09/18/2018
Date Data Arrived at EDR: 09/20/2018
Date Made Active in Reports: 10/17/2018
Number of Days to Update: 27

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 09/10/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA SANTA BARBARA: CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28

Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 11/14/2018
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Varies

SANTA CLARA COUNTY:

CUPA SANTA CLARA: Cupa Facility List
Cupa facility list

Date of Government Version: 08/17/2018
Date Data Arrived at EDR: 08/22/2018
Date Made Active in Reports: 09/07/2018
Number of Days to Update: 16

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 11/14/2018
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Varies

HIST LUST SANTA CLARA: HIST LUST - Fuel Leak Site Activity Report
A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LUST SANTA CLARA: LOP Listing
A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13
Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 11/21/2018
Next Scheduled EDR Contact: 03/11/2019
Data Release Frequency: Annually

SAN JOSE HAZMAT: Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 08/01/2018
Date Data Arrived at EDR: 08/06/2018
Date Made Active in Reports: 09/11/2018
Number of Days to Update: 36
Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 11/01/2018
Next Scheduled EDR Contact: 02/18/2019
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA SANTA CRUZ: CUPA Facility List
CUPA facility listing.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 90
Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 11/14/2018
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA SHASTA: CUPA Facility List
Cupa Facility List.

Date of Government Version: 06/15/2017
Date Data Arrived at EDR: 06/19/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 51
Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 11/14/2018
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Varies

SOLANO COUNTY:

LUST SOLANO: Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 08/29/2018
Date Data Arrived at EDR: 09/04/2018
Date Made Active in Reports: 10/17/2018
Number of Days to Update: 43
Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 11/29/2018
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: Quarterly

UST SOLANO: Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 08/29/2018
Date Data Arrived at EDR: 09/04/2018
Date Made Active in Reports: 10/18/2018
Number of Days to Update: 44
Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 11/29/2018
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: Quarterly

SONOMA COUNTY:

CUPA SONOMA: Cupa Facility List
Cupa Facility list

Date of Government Version: 09/24/2018
Date Data Arrived at EDR: 09/25/2018
Date Made Active in Reports: 10/16/2018
Number of Days to Update: 21

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 09/24/2018
Next Scheduled EDR Contact: 01/07/2019
Data Release Frequency: Varies

LUST SONOMA: Leaking Underground Storage Tank Sites
A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 10/02/2018
Date Data Arrived at EDR: 10/04/2018
Date Made Active in Reports: 10/25/2018
Number of Days to Update: 21

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 09/24/2018
Next Scheduled EDR Contact: 01/07/2019
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA STANISLAUS: CUPA Facility List
Cupa facility list

Date of Government Version: 08/14/2018
Date Data Arrived at EDR: 08/16/2018
Date Made Active in Reports: 08/24/2018
Number of Days to Update: 8

Source: Stanislaus County Department of Ennvironmental Protection
Telephone: 209-525-6751
Last EDR Contact: 10/15/2018
Next Scheduled EDR Contact: 01/28/2019
Data Release Frequency: Varies

SUTTER COUNTY:

UST SUTTER: Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 09/18/2018
Date Data Arrived at EDR: 09/20/2018
Date Made Active in Reports: 10/25/2018
Number of Days to Update: 35

Source: Sutter County Department of Agriculture
Telephone: 530-822-7500
Last EDR Contact: 11/29/2018
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA TEHAMA: CUPA Facility List
Cupa facilities

Date of Government Version: 07/17/2018
Date Data Arrived at EDR: 08/02/2018
Date Made Active in Reports: 09/07/2018
Number of Days to Update: 36

Source: Tehama County Department of Environmental Health
Telephone: 530-527-8020
Last EDR Contact: 11/29/2018
Next Scheduled EDR Contact: 02/18/2019
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA TRINITY: CUPA Facility List
Cupa facility list

Date of Government Version: 10/22/2018
Date Data Arrived at EDR: 10/25/2018
Date Made Active in Reports: 11/14/2018
Number of Days to Update: 20

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 10/22/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

TULARE COUNTY:

CUPA TULARE: CUPA Facility List
Cupa program facilities

Date of Government Version: 09/13/2018
Date Data Arrived at EDR: 09/14/2018
Date Made Active in Reports: 09/19/2018
Number of Days to Update: 5

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 11/29/2018
Next Scheduled EDR Contact: 02/18/2019
Data Release Frequency: Varies

TUOLUMNE COUNTY:

CUPA TUOLUMNE: CUPA Facility List
Cupa facility list

Date of Government Version: 04/23/2018
Date Data Arrived at EDR: 04/25/2018
Date Made Active in Reports: 06/25/2018
Number of Days to Update: 61

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 10/22/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

VENTURA COUNTY:

BWT VENTURA: Business Plan, Hazardous Waste Producers, and Operating Underground Tanks
The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 07/02/2018
Date Data Arrived at EDR: 07/26/2018
Date Made Active in Reports: 09/05/2018
Number of Days to Update: 41

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 10/22/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Quarterly

LF VENTURA: Inventory of Illegal Abandoned and Inactive Sites
Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011
Date Data Arrived at EDR: 12/01/2011
Date Made Active in Reports: 01/19/2012
Number of Days to Update: 49

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 10/01/2018
Next Scheduled EDR Contact: 01/14/2019
Data Release Frequency: Annually

LUST VENTURA: Listing of Underground Tank Cleanup Sites
Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 11/07/2018
Next Scheduled EDR Contact: 02/25/2019
Data Release Frequency: Quarterly

MED WASTE VENTURA: Medical Waste Program List
To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 07/02/2018
Date Data Arrived at EDR: 07/26/2018
Date Made Active in Reports: 08/24/2018
Number of Days to Update: 29
Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 10/22/2018
Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Quarterly

UST VENTURA: Underground Tank Closed Sites List
Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 09/04/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 10/04/2018
Number of Days to Update: 22
Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 09/12/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Quarterly

YOLO COUNTY:

UST YOLO: Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.

Date of Government Version: 10/15/2018
Date Data Arrived at EDR: 10/19/2018
Date Made Active in Reports: 11/05/2018
Number of Days to Update: 17
Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 10/15/2018
Next Scheduled EDR Contact: 01/14/2019
Data Release Frequency: Annually

YUBA COUNTY:

CUPA YUBA: CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 11/05/2018
Date Data Arrived at EDR: 11/07/2018
Date Made Active in Reports: 11/14/2018
Number of Days to Update: 7
Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 10/25/2018
Next Scheduled EDR Contact: 02/11/2019
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 08/10/2018
Date Data Arrived at EDR: 08/10/2018
Date Made Active in Reports: 09/10/2018
Number of Days to Update: 31
Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 11/14/2018
Next Scheduled EDR Contact: 02/25/2019
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 07/13/2018
Date Made Active in Reports: 08/01/2018
Number of Days to Update: 19

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 10/09/2018
Next Scheduled EDR Contact: 01/21/2019
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 07/01/2018
Date Data Arrived at EDR: 08/01/2018
Date Made Active in Reports: 08/31/2018
Number of Days to Update: 30

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 10/31/2018
Next Scheduled EDR Contact: 02/11/2019
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 10/23/2018
Date Made Active in Reports: 11/27/2018
Number of Days to Update: 35

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 10/15/2018
Next Scheduled EDR Contact: 01/28/2019
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 02/23/2018
Date Made Active in Reports: 04/09/2018
Number of Days to Update: 45

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 11/16/2018
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/15/2018
Date Made Active in Reports: 07/09/2018
Number of Days to Update: 24

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 09/06/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: PennWell Corporation
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Electric Power Transmission Line Data
Source: PennWell Corporation
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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

CANOGA PARK HIGH SCHOOL
6850 TOPANGA CANYON BLVD
CANOGA PARK, CA 91303

TARGET PROPERTY COORDINATES

Latitude (North):	34.195576 - 34° 11' 44.07''
Longitude (West):	118.604331 - 118° 36' 15.59''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	352173.4
UTM Y (Meters):	3784809.8
Elevation:	796 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5630737 CANOGA PARK, CA
Version Date:	2012
West Map:	5630735 CALABASAS, CA
Version Date:	2012

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

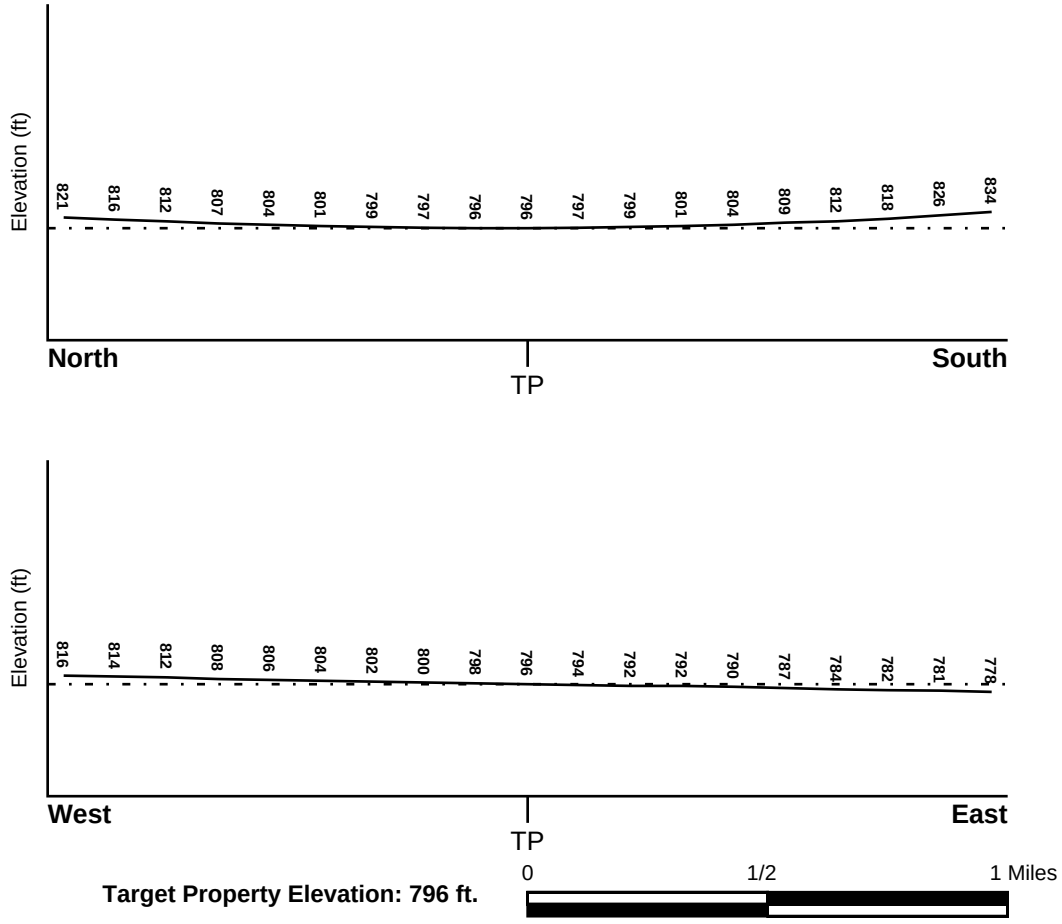
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General ENE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
06037C1280F	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
06037C1290F	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
CANOGA PARK	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
A1	1/2 - 1 Mile NE	Not Reported
A2	1/2 - 1 Mile NE	SSE
A3	1/2 - 1 Mile NE	SE
A4	1/2 - 1 Mile NE	SSE
A5	1/2 - 1 Mile NE	S
B7	1/2 - 1 Mile East	NE
B8	1/2 - 1 Mile East	NE
9	1/2 - 1 Mile ESE	Not Reported

* ©1996 Site−specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
B10	1/2 - 1 Mile East	Not Reported
1G	1/2 - 1 Mile NE	SSE
2G	1/2 - 1 Mile NE	S
3G	1/2 - 1 Mile NE	SSE
4G	1/2 - 1 Mile NE	SE
5G	1/2 - 1 Mile NE	Not Reported
6G	1/2 - 1 Mile East	NE
7G	1/2 - 1 Mile East	NE
8G	1/2 - 1 Mile East	Not Reported
9G	1/2 - 1 Mile ESE	Not Reported

For additional site information, refer to Physical Setting Source Map Findings.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

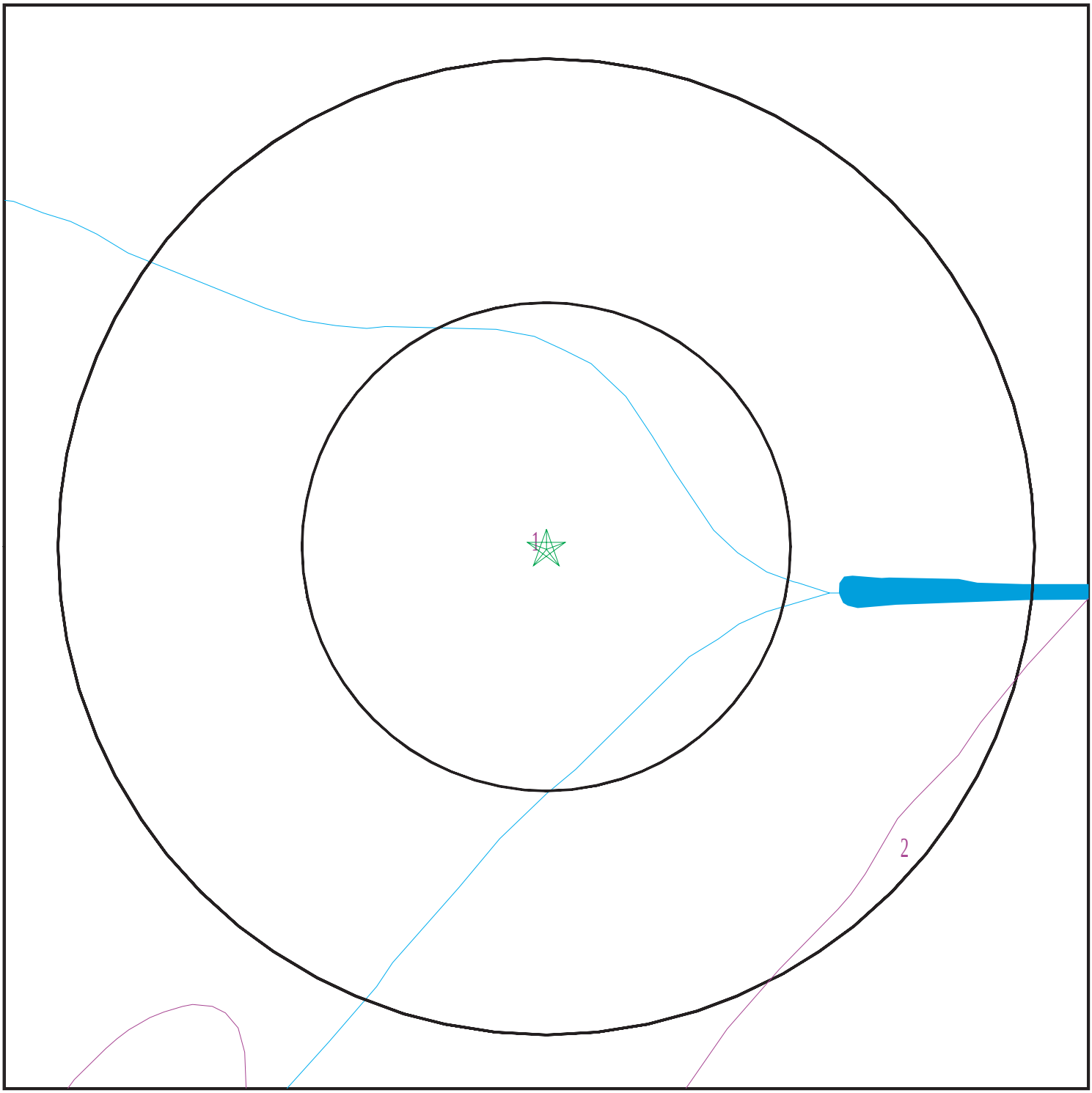
Era:	Cenozoic
System:	Tertiary
Series:	Miocene
Code:	Tm *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 5499207.2s



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME:	CANOGA PARK HIGH SCHOOL	CLIENT:	Eco & Associates, Inc.
ADDRESS:	6850 Topanga Canyon Blvd Canoga Park CA 91303	CONTACT:	Filmon Tesfaslasie
LAT/LONG:	34.195576 / 118.604331	INQUIRY #:	5499207.2s
		DATE:	November 30, 2018 3:12 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: Mocho

Soil Surface Texture: loam

Hydrologic Group: Not reported

Soil Drainage Class:
Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	16 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 8.4 Min: 7.9
2	16 inches	75 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 8.4 Min: 7.9

Soil Map ID: 2

Soil Component Name: Cropley

Soil Surface Texture: clay

Hydrologic Group: Not reported

Soil Drainage Class:

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	35 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 1.4 Min: 0.42	Max: 8.4 Min: 7.4
2	35 inches	64 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 1.4 Min: 0.42	Max: 8.4 Min: 7.4

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 0.001 miles
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP

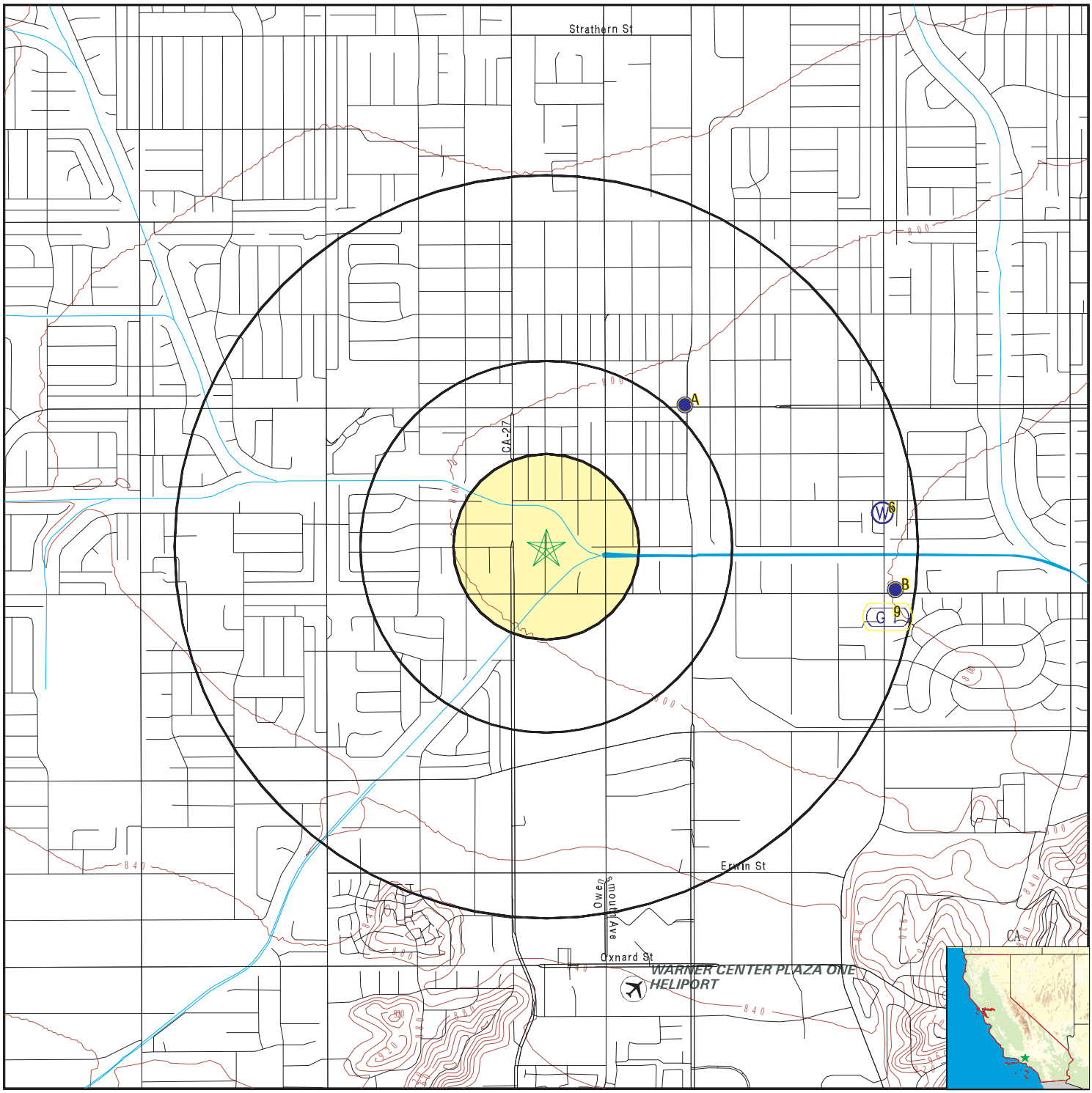
No PWS System Found

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
6	CADW60000005577	1/2 - 1 Mile East

PHYSICAL SETTING SOURCE MAP - 5499207.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location
- HD Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME:	CANOGA PARK HIGH SCHOOL	CLIENT:	Eco & Associates, Inc.
ADDRESS:	6850 Topanga Canyon Blvd Canoga Park CA 91303	CONTACT:	Filmon Tesfaslasie
LAT/LONG:	34.195576 / 118.604331	INQUIRY #:	5499207.2s
		DATE:	November 30, 2018 3:12 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

			Database	EDR ID Number
A1 **NE** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	913060089 Not Reported Not Reported Not Reported 17 02/05/1986	**AQUIFLOW**	**38165**
A2 **NE** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	913030752 SSE 17.34 17.68 Not Reported 07/29/1996	**AQUIFLOW**	**38153**
A3 **NE** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	913030707 SE 16.21 17.60 Not Reported 10/01/1996	**AQUIFLOW**	**70429**
A4 **NE** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	913030752 SSE 17.34 17.68 Not Reported 07/29/1996	**AQUIFLOW**	**38152**
A5 **NE** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	91300725 S 18.62 18.85 Not Reported 10/22/1991	**AQUIFLOW**	**38169**

6
East
1/2 - 1 Mile
Lower

CA WELLS **CADW60000005577**

Objectid:	5577	Latitude:	34.196902
Longitude:	-118.588536	Site code:	341969N1185885W001
State well numbe:	01N16W05M001S	Local well name:	'3610A'
Well use id:	1	Well use descrip:	Observation
County id:	19	County name:	Los Angeles
Basin code:	'4-12'	Basin desc:	San Fernando Valley
Dwr region id:	80238	Dwr region:	Southern Region Office
Site id:	CADW60000005577		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation			Database	EDR ID Number
B7 **East** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	913030834 NE 17 18 Not Reported 11/21/1996	**AQUIFLOW**	**38156**
B8 **East** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	913030834 NE 17 18 Not Reported 11/21/1996	**AQUIFLOW**	**38157**
9 **ESE** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	913060089 Not Reported Not Reported Not Reported 17 02/05/1986	**AQUIFLOW**	**38166**
B10 **East** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	913060089 Not Reported Not Reported Not Reported 17 02/05/1986	**AQUIFLOW**	**38167**
1G **NE** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	913030752 SSE 17.34 17.68 Not Reported 07/29/1996	**AQUIFLOW**	**38152**
2G **NE** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	91300725 S 18.62 18.85 Not Reported 10/22/1991	**AQUIFLOW**	**38169**
3G **NE** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	913030752 SSE 17.34 17.68 Not Reported 07/29/1996	**AQUIFLOW**	**38153**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation			Database	EDR ID Number
4G **NE** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	913030707 SE 16.21 17.60 Not Reported 10/01/1996	**AQUIFLOW**	**70429**
5G **NE** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	913060089 Not Reported Not Reported Not Reported 17 02/05/1986	**AQUIFLOW**	**38165**
6G **East** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	913030834 NE 17 18 Not Reported 11/21/1996	**AQUIFLOW**	**38156**
7G **East** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	913030834 NE 17 18 Not Reported 11/21/1996	**AQUIFLOW**	**38157**
8G **East** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	913060089 Not Reported Not Reported Not Reported 17 02/05/1986	**AQUIFLOW**	**38167**
9G **ESE** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	913060089 Not Reported Not Reported Not Reported 17 02/05/1986	**AQUIFLOW**	**38166**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
91303	45	3

Federal EPA Radon Zone for LOS ANGELES County: 2

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for LOS ANGELES COUNTY, CA

Number of sites tested: 63

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.711 pCi/L	98%	2%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	0.933 pCi/L	100%	0%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Water Well Database
Source: Department of Water Resources
Telephone: 916-651-9648

California Drinking Water Quality Database
Source: Department of Public Health
Telephone: 916-324-2319
The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

OTHER STATE DATABASE INFORMATION

California Oil and Gas Well Locations
Source: Department of Conservation
Telephone: 916-323-1779
Oil and Gas well locations in the state.

RADON

State Database: CA Radon
Source: Department of Health Services
Telephone: 916-324-2208
Radon Database for California

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

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CANOGA PARK HIGH SCHOOL
6850 Topanga Canyon Blvd
Canoga Park, CA 91303

Inquiry Number: 5499207.8
November 30, 2018

EDR Building Permit Report

Target Property and Adjoining Properties

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION

About This Report

Executive Summary

Findings

Glossary

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EDR BUILDING PERMIT REPORT

About This Report

The EDR Building Permit Report provides a practical and efficient method to search building department records for indications of environmental conditions. Generated via a search of municipal building permit records gathered from more than 1,600 cities nationwide, this report will assist you in meeting the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

Building permit data can be used to identify current and/or former operations and structures/features of environmental concern. The data can provide information on a target property and adjoining properties such as the presence of underground storage tanks, pump islands, sumps, drywells, etc., as well as information regarding water, sewer, natural gas, electrical connection dates, and current/former septic tanks.

ASTM and EPA Requirements

ASTM E 1527-13 lists building department records as a "standard historical source," as detailed in § 8.3.4.7: "Building Department Records - The term building department records means those records of the local government in which the property is located indicating permission of the local government to construct, alter, or demolish improvements on the property." ASTM also states that "Uses in the area surrounding the property shall be identified in the report, but this task is required only to the extent that this information is revealed in the course of researching the property itself."

EPA's Standards and Practices for All Appropriate Inquires (AAI) states: "§312.24: Reviews of historical sources of information. (a) Historical documents and records must be reviewed for the purposes of achieving the objectives and performance factors of §312.20(e) and (f). Historical documents and records may include, but are not limited to, aerial photographs, fire insurance maps, building department records, chain of title documents, and land use records."

Methodology

EDR has developed the EDR Building Permit Report through our partnership with BuildFax, the nation's largest repository of building department records. BuildFax collects, updates, and manages building department records from local municipal governments. The database now includes 30 million permits, on more than 10 million properties across 1,600 cities in the United States.

The EDR Building Permit Report comprises local municipal building permit records, gathered directly from local jurisdictions, including both target property and adjoining properties. Years of coverage vary by municipality. Data reported includes (where available): date of permit, permit type, permit number, status, valuation, contractor company, contractor name, and description.

Incoming permit data is checked at seven stages in a regimented quality control process, from initial data source interview, to data preparation, through final auditing. To ensure the building department is accurate, each of the seven quality control stages contains, on average, 15 additional quality checks, resulting in a process of approximately 105 quality control "touch points."

For more information about the EDR Building Permit Report, please contact your EDR Account Executive at (800) 352-0050.

EDR® Environmental Data Resources Inc

BUILD FAX PROPERTY HISTORY

EXECUTIVE SUMMARY: SEARCH DOCUMENTATION

A search of building department records was conducted by Environmental Data Resources, Inc (EDR) on behalf of Eco & Associates, Inc. on Nov 30, 2018.

TARGET PROPERTY

6850 Topanga Canyon Blvd
Canoga Park, CA 91303

SEARCH METHODS

EDR searches available lists for both the Target Property and Surrounding Properties.

RESEARCH SUMMARY

Building permits identified: **YES**

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

Los Angeles

Year	*Source*	*TP*	*Adjoining*
2018	City of Los Angeles, Department of Building and Safety		X
2017	City of Los Angeles, Department of Building and Safety		X
2016	City of Los Angeles, Department of Building and Safety		X
2015	City of Los Angeles, Department of Building and Safety		X
2014	City of Los Angeles, Department of Building and Safety		X
2013	City of Los Angeles, Department of Building and Safety		X
2012	City of Los Angeles, Department of Building and Safety		X
2011	City of Los Angeles, Department of Building and Safety		X
2010	City of Los Angeles, Department of Building and Safety		X
2009	City of Los Angeles, Department of Building and Safety		X
2008	City of Los Angeles, Department of Building and Safety		X
2007	City of Los Angeles, Department of Building and Safety		X
2006	City of Los Angeles, Department of Building and Safety		X
	City of Los Angeles, Department of Building and Safety	X	
2005	City of Los Angeles, Department of Building and Safety		X
2004	City of Los Angeles, Department of Building and Safety		X
2003	City of Los Angeles, Department of Building and Safety		X
2002	City of Los Angeles, Department of Building and Safety		X
2001	City of Los Angeles, Department of Building and Safety		X
2000	City of Los Angeles, Department of Building and Safety		X
1999	City of Los Angeles, Department of Building and Safety		X
1998	City of Los Angeles, Department of Building and Safety		X
1997	City of Los Angeles, Department of Building and Safety		X
1996	City of Los Angeles, Department of Building and Safety		
1995	City of Los Angeles, Department of Building and Safety		
1994	City of Los Angeles, Department of Building and Safety		
1993	City of Los Angeles, Department of Building and Safety		
1992	City of Los Angeles, Department of Building and Safety		

EXECUTIVE SUMMARY: SEARCH DOCUMENTATION

Year	Source	TP	Adjoining
1991	City of Los Angeles, Department of Building and Safety		
1990	City of Los Angeles, Department of Building and Safety		
1989	City of Los Angeles, Department of Building and Safety		
1988	City of Los Angeles, Department of Building and Safety		

Name: JurisdictionName
Years: Years
Source: Source
Phone: Phone

BUILDING DEPARTMENT RECORDS SEARCHED

Name: Los Angeles
Years: 1988-2018
Source: City of Los Angeles, Department of Building and Safety, CANOGA PARK, CA
Phone: (213) 482-6800

Name: Los Angeles County
Years: 1988-2018
Source: Los Angeles County, Building and Safety, WILMINGTON, CA
Phone: (626) 458-6368

Name: Ventura County Unincorporated Area
Years: 2012-2018
Source: County of Ventura, Building and Safety, WESTLAKE VILLAGE, CA
Phone: (805) 654-2771

TARGET PROPERTY FINDINGS

TARGET PROPERTY DETAIL

6850 Topanga Canyon Blvd
Canoga Park, CA 91303

6850 TOPANGA CANYON BLVD

Date:	**4/7/2006**
Permit Type:	
Description:	**No Plan Check ELECTRICAL FOR CARNIVAL: MAY 7 - 9, 2006.**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	Special Equipment
Permit Number:	060411000008450
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	JACK'S ELECTRIC

ADJOINING PROPERTY FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

BASSETT ST

22027 BASSETT ST

Date:	**1/10/2005**
Permit Type:	
Description:	**No Plan Check Installed one earthquake shut-off valve**
Permit Description:	**Plumbing**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	050429000000574
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	PRC MECHANICAL

22031 BASSETT ST

C.O. Issued Date:	**9/15/2009**
Date:	**7/9/2007**
Permit Type:	
Description:	**Plan Check SINGLE STORY ADDITION TO EXISTING SFD - 2 NEW BEDROOMS, 2 NEW BATHROOMS**
Permit Description:	**Bldg-Addition**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling Single Family Residence
Permit Number:	070142000002627
Status:	
Valuation:	$124,000.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

22038 BASSETT ST

Date:	**8/4/2004**
Permit Type:	
Description:	**Plan Check NEW 22'X13'6" BEDROOM ADDITION AND INTERIOR REMODEL TO (E) SFD. PER ENG. PLANS**
Permit Description:	**Bldg-Addition**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling Single Family Residence
Permit Number:	040142000004524
Status:	
Valuation:	$25,000.00
Contractor Company:	
Contractor Name:	

22041 BASSETT ST

Date:	**3/10/2000**
Permit Type:	
Description:	**Plan Check NEW BED AND BATH ADDITION TO REAR OF DWELLING. (19.5'X11')**
Permit Description:	**Bldg-Addition**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling Single Family Residence
Permit Number:	000142000001130
Status:	
Valuation:	$16,000.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

22047 BASSETT ST

Date:	**10/22/2017**
Permit Type:	
Description:	**No Plan Check**
Permit Description:	**Plumbing**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	170429000026089
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	JOEL'S PLUMBING

Date:	**5/25/2001**
Permit Type:	
Description:	**No Plan Check INSTALL 1 PACKAGE A/C & HEATING SYSTEM.**
Permit Description:	**HVAC**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	010442000004920
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date:	**3/30/2001**
Permit Type:	
Description:	**Plan Check Add 388 s.f. (for master bedroom w/ bath & closet and den) to SFD per Type V sheet.**
Permit Description:	**Bldg-Addition**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling Single Family Residence
Permit Number:	010142000001609
Status:	
Valuation:	$29,500.00
Contractor Company:	
Contractor Name:	

22051 BASSETT ST

Date:	**7/11/2016**
Permit Type:	
Description:	**No Plan Check**
Permit Description:	**HVAC**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	160449000007624
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	FAHRENHEIT H T G & AIR CONDITIONING INC

ADJOINING PROPERTY FINDINGS

Date:	**3/29/2011**
Permit Type:	
Description:	**No Plan Check Re-roof with Class A or B material weighing less than 6 pound per sq. ft. Smoke detectors required.**
Permit Description:	**Bldg-Alter/Repair**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling Single Family Residence
Permit Number:	110162000005637
Status:	
Valuation:	$2,627.00
Contractor Company:	
Contractor Name:	ADVANCED ROOFING SYSTEMS INC

Date:	**10/9/1998**
Permit Type:	
Description:	**No Plan Check COPPER REPIPE TO 8 EXIST. FIXTURES, & ADD 4 HOSE BIBBS**
Permit Description:	**Plumbing**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	980422000013185
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	ADEE BOB PLBG & HTG

ADJOINING PROPERTY FINDINGS

22057 BASSETT ST

Date:	**11/13/2013**
Permit Type:	
Description:	**No Plan Check REPLACE WALL FURNACE "COMPLY WITH DEPA RTMENT ORDER effective date 09/12/2013. PERMIT WILL EXPIRE 30 DAYS FROM ISSUANCE DATE".**
Permit Description:	**HVAC**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	130442000012280
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	ECONO-WEST INC

GLADE AVE

6820 GLADE AVE

Date:	**11/9/2010**
Permit Type:	
Description:	**No Plan Check Re-roof with Class A or B material weighing less than 6 pound per sq. ft. Smoke detectors required.**
Permit Description:	**Bldg-Alter/Repair**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling Single Family Residence
Permit Number:	100162000020555
Status:	
Valuation:	$6,000.00
Contractor Company:	
Contractor Name:	YOUNG CORINTHIAN

ADJOINING PROPERTY FINDINGS

C.O. Issued Date:	**1/24/2011**
Date:	**10/14/2010**
Permit Type:	
Description:	**Plan Check REMOVE (E) PATIO/ENCLOSURE AND RE-BUILD A FAMILY ROOM AT SAME LOCATION AND SIZE 12'2"X22'. ALL WORK PER TYPE V SHEET.**
Permit Description:	**Bldg-Alter/Repair**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling Single Family Residence Single Family Residence
Permit Number:	100162000018778
Status:	
Valuation:	$27,000.00
Contractor Company:	
Contractor Name:	YOUNG CORINTHIAN

Date:	**4/4/2000**
Permit Type:	
Description:	**No Plan Check WATER HEATER CHANGE OUT**
Permit Description:	**Plumbing**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	000424000004961
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	ACTION CONTRACTORS

ADJOINING PROPERTY FINDINGS

6826 GLADE AVE

Date:	**4/30/1998**
Permit Type:	
Description:	**No Plan Check REPLACE DISHWASHER**
Permit Description:	**Plumbing**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	980422000004483
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	GARRCO PLUMBING

6830 GLADE AVE

Date:	**3/15/2006**
Permit Type:	
Description:	**No Plan Check 200 AMP SERVICE UPGRADE, REWIRE AND ADD RECESSED LIGHTS.**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	060412000006498
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	G G ELECTRICAL COMPANY

ADJOINING PROPERTY FINDINGS

C.O. Issued Date:	**5/8/2006**
Date:	**3/6/2006**
Permit Type:	
Description:	**Plan Check ADD 24'5" X 10'3" PATIO COVER, REPLACE CEILING DRYWALL IN LIVING RM, REPLACE SLIDING DOOR WITH SAME SIZE/TYPE. ALL WORK PER TYPE V SHT.**
Permit Description:	**Bldg-Addition**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling Single Family Residence
Permit Number:	060142000001937
Status:	
Valuation:	$5,000.00
Contractor Company:	
Contractor Name:	

C.O. Issued Date:	**2/27/2006**
Date:	**11/28/2005**
Permit Type:	
Description:	**Plan Check BEDROOM ADDITION TO REAR OF SFD PER TYPE V SHEET**
Permit Description:	**Bldg-Addition**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling Single Family Residence
Permit Number:	050142000010066
Status:	
Valuation:	$16,000.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

6836 GLADE AVE

Date:	**3/2/1999**
Permit Type:	
Description:	**No Plan Check 100amp service upgrade**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	990413000003784
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	G J ENGINEERING DESIGN

6840 GLADE AVE

Date:	**1/18/2013**
Permit Type:	
Description:	**No Plan Check INSTALLATION OF ROOF MOUNTED SOLAR PHOTO VOLTAIC SYSTEM (2000 KW)**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	130412000001397
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	MOONLIGHT ELECTRIC SERVICES INC

ADJOINING PROPERTY FINDINGS

Date:	**11/16/2009**
Permit Type:	
Description:	**No Plan Check Add sill plate anchor bolts and cripple wall plywood per L.A. City Std. Plan #1; no foundation replacement (EQ hazard reduction per Chapter 92).**
Permit Description:	**Bldg-Alter/Repair**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling Single Family Residence
Permit Number:	090169000018953
Status:	
Valuation:	$2,000.00
Contractor Company:	
Contractor Name:	JULIAN CONSTRUCTION INC

Date:	**7/26/2009**
Permit Type:	
Description:	**No Plan Check upgrade panel**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	090419000013737
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	MOONLIGHT ELECTRIC SERVICES INC

ADJOINING PROPERTY FINDINGS

HANNA AVE

6821 HANNA AVE

Date:	**7/1/2016**
Permit Type:	
Description:	**No Plan Check**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	160412000023221
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	CAL STATE ELECTRIC

6829 HANNA AVE

Date:	**5/10/2017**
Permit Type:	
Description:	**No Plan Check**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	160412000121553
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	A G HEATING & AIR CONDITIONING

ADJOINING PROPERTY FINDINGS

Date: **6/20/2016**
Permit Type:
Description: **No Plan Check**

Permit Description: **Electrical**
Work Class:
Proposed Use: 1 or 2 Family Dwelling
Permit Number: 160419000021553
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: A G HEATING & AIR CONDITIONING

Date: **6/20/2016**
Permit Type:
Description: **No Plan Check**

Permit Description: **HVAC**
Work Class:
Proposed Use: 1 or 2 Family Dwelling
Permit Number: 160449000006659
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: A G HEATING & AIR CONDITIONING

6833 HANNA AVE

Date: **4/12/2007**
Permit Type:
Description: **No Plan Check UPGRADE AND RELOCATE 200 AMP SERVICE.**

Permit Description: **Electrical**
Work Class:
Proposed Use: 1 or 2 Family Dwelling
Permit Number: 070412000008839
Status:
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

6837 HANNA AVE

Date:	**6/5/2018**
Permit Type:	
Description:	**No Plan Check**
Permit Description:	**HVAC**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	180449000006642
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	AMERICAN COMPLETE HOME SERVICES INC, AMERICAN AIR CONDITIONING AND HEATING

Date:	**6/27/2011**
Permit Type:	
Description:	**No Plan Check Change out A/C Coil**
Permit Description:	**HVAC**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	110447000007059
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	ECONO AIR

ADJOINING PROPERTY FINDINGS

Date: **11/29/2005**
Permit Type:
Description: **No Plan Check ELECTRICAL FOR HVAC**

Permit Description: **Electrical**
Work Class:
Proposed Use: 1 or 2 Family Dwelling
Permit Number: 050414000028981
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: ECONO AIR

Date: **11/29/2005**
Permit Type:
Description: **No Plan Check C/O HVAC REDUCT**

Permit Description: **HVAC**
Work Class:
Proposed Use: 1 or 2 Family Dwelling
Permit Number: 050444000012293
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: ECONO AIR

6841 HANNA AVE

Date: **9/2/2015**
Permit Type:
Description: **No Plan Check Change of ownership.**

Permit Description: **Bldg-Alter/Repair**
Work Class:
Proposed Use: 1 or 2 Family Dwelling Single Family Residence
Permit Number: 150162000118663
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: WEINSTEIN CONSTRUCTION CORPORATION

ADJOINING PROPERTY FINDINGS

Date:	**9/1/2015**
Permit Type:	
Description:	**No Plan Check Add sill plate anchors bolts and crippl**
Permit Description:	**Bldg-Alter/Repair**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling Single Family Residence
Permit Number:	150169000018663
Status:	
Valuation:	$4,000.00
Contractor Company:	
Contractor Name:	WEINSTEIN CONSTRUCTION CORPORATION

Date:	**6/20/2012**
Permit Type:	
Description:	**No Plan Check Reroof with 28 sqrs COMP SHINGLE roofing . Existing solid sheathing.**
Permit Description:	**Bldg-Alter/Repair**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling Single Family Residence
Permit Number:	120169000012324
Status:	
Valuation:	$5,600.00
Contractor Company:	
Contractor Name:	ALL - RIGHT ROOFING

ADJOINING PROPERTY FINDINGS

C.O. Issued Date: **4/12/2007**
Date: **4/4/2005**
Permit Type:
Description: **Plan Check ADD 17' X 28' MASTER BEDROOM W/ BATH AND (2) WALK-IN CLOSETS AND ADD CITY APPROVED SKYLIGHT IN (E) LIVING/DINING TO (E) SFD PER TYPE V SHEET.**

Permit Description: **Bldg-Addition**
Work Class:
Proposed Use: 1 or 2 Family Dwelling Single Family Residence
Permit Number: 050142000002821
Status:
Valuation: $38,000.00
Contractor Company:
Contractor Name:

6847 HANNA AVE

Date: **9/22/2004**
Permit Type:
Description: **No Plan Check 100 AMP SERVICE UPGRADE, ADD CIRCUIT FOR A/C**

Permit Description: **Electrical**
Work Class:
Proposed Use: 1 or 2 Family Dwelling
Permit Number: 040412000023885
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: VON HOF ELECTRIC

ADJOINING PROPERTY FINDINGS

HART ST

22036 HART ST

Date:	**11/20/2008**
Permit Type:	
Description:	**No Plan Check run 110 and 220 line for hvac system**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	080419000025470
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	AMERICAN AIR

Date:	**11/20/2008**
Permit Type:	
Description:	**No Plan Check hvac**
Permit Description:	**HVAC**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	080449000011416
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	AMERICAN AIR

ADJOINING PROPERTY FINDINGS

Date: **7/31/2006**
Permit Type:
Description: **No Plan Check new 100 amp panel**

Permit Description: **Electrical**
Work Class:
Proposed Use: 1 or 2 Family Dwelling
Permit Number: 060419000018765
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: M G ELECTRIC

SCHOOLCRAFT ST

22016 SCHOOLCRAFT ST

Date: **12/8/2004**
Permit Type:
Description: **No Plan Check Installation of earthquake gas shut-off valve.**

Permit Description: **Plumbing**
Work Class:
Proposed Use: 1 or 2 Family Dwelling
Permit Number: 040429000035054
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: SEISMIC SERVICES SPECIALISTS

ADJOINING PROPERTY FINDINGS

Date:	**5/4/2004**
Permit Type:	
Description:	**No Plan Check T/O (E) ROOF AND APPLY 35 SQS OF CLASS "A" COMP. SHINGLES OVER EXISTING SHEATHING. SMOKE DETECTORS REQUIRED.**
Permit Description:	**Bldg-Alter/Repair**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling Single Family Residence
Permit Number:	040162000008360
Status:	
Valuation:	$5,500.00
Contractor Company:	
Contractor Name:	TWINS ROOFING INCORPORATED

Date:	**4/13/2000**
Permit Type:	
Description:	**Plan Check 3.5 HT. AT REQD FRONT YARD & 76 LF OF 6 HT. CONC. BLK WALL FENCE PER CITY STD DETAIL**
Permit Description:	**Nonbldg-New**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling Misc. Bldg or Structure
Permit Number:	000202000000950
Status:	
Valuation:	$3,500.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

22020 SCHOOLCRAFT ST

Date:	**6/13/2000**
Permit Type:	
Description:	**No Plan Check 100 AMP SERVICE UPGRADE**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	000412000011760
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	I K ELECTRIC

22026 SCHOOLCRAFT ST

Date:	**2/12/2015**
Permit Type:	
Description:	**No Plan Check**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	150412000004303
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	A1 SOLAR POWER INC

ADJOINING PROPERTY FINDINGS

22027 SCHOOLCRAFT ST

Date:	**9/13/2000**
Permit Type:	
Description:	**No Plan Check RELOCATE WATER AND NEW VENT**
Permit Description:	**Plumbing**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	000422000014254
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

22031 SCHOOLCRAFT ST

Date:	**5/17/2016**
Permit Type:	
Description:	**No Plan Check**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	160412000014721
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	DIVINE POWER USA

ADJOINING PROPERTY FINDINGS

Date:	**4/26/2016**
Permit Type:	
Description:	**No Plan Check**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	160419000014496
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	DIVINE POWER USA

22037 SCHOOLCRAFT ST

Date:	**6/2/2006**
Permit Type:	
Description:	**No Plan Check INSTALL NEW STUCCO. VALUATION TO BE VERIFIED BY FIELD INSPECTOR.**
Permit Description:	**Bldg-Alter/Repair**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling Single Family Residence
Permit Number:	060162000010538
Status:	
Valuation:	$3,000.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date: **2/10/2003**
Permit Type:
Description: **No Plan Check 100A SERVICE PANEL UPGRADE IN EXISTING SFD.**

Permit Description: **Electrical**
Work Class:
Proposed Use: 1 or 2 Family Dwelling
Permit Number: 030412000002942
Status:
Valuation: $0.00
Contractor Company:
Contractor Name:

22040 SCHOOLCRAFT ST

Date: **9/10/2009**
Permit Type:
Description: **No Plan Check 100 AMP SERVICE UPGRADE**

Permit Description: **Electrical**
Work Class:
Proposed Use: 1 or 2 Family Dwelling
Permit Number: 090412000016959
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: D T R ELECTRIC

Date: **9/4/2009**
Permit Type:
Description: **No Plan Check installation of a seismic gas shut off valve**

Permit Description: **Plumbing**
Work Class:
Proposed Use: 1 or 2 Family Dwelling
Permit Number: 090429000015578
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: MAIN LINE ROOTER AND PLUMBING

ADJOINING PROPERTY FINDINGS

Date: **9/19/2006**
Permit Type:
Description: **No Plan Check REMOVE AND REPLACE FURNACE**

Permit Description: **HVAC**
Work Class:
Proposed Use: 1 or 2 Family Dwelling
Permit Number: 060442000009995
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: WINEGARD ENERGY INC

Date: **5/1/2006**
Permit Type:
Description: **No Plan Check Install (1) 3 ton split system. (6) supplies & (1) return.**

Permit Description: **HVAC**
Work Class:
Proposed Use: 1 or 2 Family Dwelling
Permit Number: 060449000004363
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: SOUTHLAND H V A C & CONSTRUCTION INC

Date: **4/7/2006**
Permit Type:
Description: **No Plan Check UPGRADE SERVICE.**

Permit Description: **Electrical**
Work Class:
Proposed Use: 1 or 2 Family Dwelling
Permit Number: 060412000008458
Status:
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

22041 SCHOOLCRAFT ST

Date:	**7/18/2000**
Permit Type:	
Description:	**No Plan Check PLUMBING PERMIT TO REPLACE PIPING TO 7 FIXTURES AND 1 PRV. RELOCATE GAS WTR HTR < 75000 BTU/HR. ADD NEW WTR HTR VENT. MODIFY LP GAS < 5 OUTLETS FOR NEW DRYER CONNECTION. 1 HOSE BIBB.**
Permit Description:	**Plumbing**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	000422000010443
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

22045 SCHOOLCRAFT ST

Date:	**3/11/1999**
Permit Type:	
Description:	**No Plan Check water heater change out**
Permit Description:	**Plumbing**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	990424000003271
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	ACTION CONTRACTORS

ADJOINING PROPERTY FINDINGS

22046 SCHOOLCRAFT ST

Date:	**1/28/2015**
Permit Type:	
Description:	**Plan Check Supplemental to application 14014-20000 5398 to revised connections of ceiling and lateral load resisting system.**
Permit Description:	**Bldg-Alter/Repair**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling Single Family Residence
Permit Number:	140142000105398
Status:	
Valuation:	$1,000.00
Contractor Company:	
Contractor Name:	

Date:	**1/28/2015**
Permit Type:	
Description:	**Plan Check Supplemental to permit number 14014-200 -05399 to revise roof framing and lateral load resisting system.**
Permit Description:	**Bldg-Alter/Repair**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling Private Garage
Permit Number:	140142000105399
Status:	
Valuation:	$1,000.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date:	**12/23/2014**
Permit Type:	
Description:	**Plan Check Irregular shape 36' x 17' addition at r ar for new master bedroom, batroom and walk-in closets, and also 5' x 23' attached patio cover.**
Permit Description:	**Bldg-Addition**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling Single Family Residence
Permit Number:	140142000005398
Status:	
Valuation:	$50,000.00
Contractor Company:	
Contractor Name:	

Date:	**12/23/2014**
Permit Type:	
Description:	**Plan Check Add 18' x 10' to the rear of the (e) de adched garage for storage area.**
Permit Description:	**Bldg-Addition**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling Private Garage
Permit Number:	140142000005399
Status:	
Valuation:	$10,000.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

TOPANGA CANYON BLVD

6829 TOPANGA CANYON BLVD

Date:	**1/23/2018**
Permit Type:	
Description:	**Plan Check INSTALL ONE 20' x 4' TEMPORARY SIGN, IN**
Permit Description:	**Sign**
Work Class:	
Proposed Use:	Onsite Signs
Permit Number:	170482000003422
Status:	
Valuation:	$501.00
Contractor Company:	
Contractor Name:	

Date:	**7/18/2016**
Permit Type:	
Description:	**No Plan Check**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	Commercial
Permit Number:	160419000025252
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	HERZOG M B ELECTRIC INC

ADJOINING PROPERTY FINDINGS

Date: **9/29/2014**
Permit Type:
Description: **No Plan Check RELOCATE WATER LINE SPRICKETS.**

Permit Description: **Plumbing**
Work Class:
Proposed Use: Commercial
Permit Number: 140422000018905
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: MC LAREN ROSS FUEL SYSTEM TESTING AND CONSULTING

Date: **9/25/2014**
Permit Type:
Description: **No Plan Check RELOCATE OUTLETS (OUTSIDE)**

Permit Description: **Electrical**
Work Class:
Proposed Use: Commercial
Permit Number: 140412000026594
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: MC LAREN ROSS FUEL SYSTEM TESTING AND CONSULTING

Date: **4/8/2014**
Permit Type:
Description: **Plan Check Demolish (e) 15' x 92' canopy; see comm nts**

Permit Description: **Bldg-Demolition**
Work Class:
Proposed Use: Commercial Private Garage Misc. Bldg or Structure
Permit Number: 140192000000946
Status:
Valuation: $15,000.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date:	**2/21/2008**
Permit Type:	
Description:	**Plan Check 5psi medium pressure natural gas system.**
Permit Description:	**Plumbing**
Work Class:	
Proposed Use:	Commercial
Permit Number:	080421000003308
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	M P M ENGINEERING CONSTRUCTION

Date:	**12/1/2006**
Permit Type:	
Description:	**No Plan Check Misc. permit to inspect removal of 8 light fixtures under canopy in existing car wash that was under on-going permit (which never obtained final approval) and owner does not need these lights anymore. The construction history & safety inspection request by Bldg. Inspector Albert Comisari. Contractor to place cover plate over fixture j-box, de-energize the circuit, and pull out the de-energized c**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	Commercial
Permit Number:	060412000029731
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	BEY ELECTRIC

ADJOINING PROPERTY FINDINGS

Date: **8/28/2003**
Permit Type:
Description: **No Plan Check SUPPLEMENTAL TO PERMIT # 02VN20369 TO CHANCE OF CONTRACTOR.**

Permit Description: **Sign**
Work Class:
Proposed Use: Onsite Signs
Permit Number: 020482000101563
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: CONTINENTAL NEON SIGNS

Date: **11/15/2002**
Permit Type:
Description: **Plan Check 38' HIGH 8' X 10' POLE SIGN.**

Permit Description: **Sign**
Work Class:
Proposed Use: Onsite Signs
Permit Number: 020482000001563
Status:
Valuation: $8,000.00
Contractor Company:
Contractor Name: COLONIAL SIGN COMPANY

Date: **3/18/1997**
Permit Type:
Description: **Plan Check ADDITION TO 94VN31466. ADD 368 SQ FT (SEE 96014-20000-01579)**

Permit Description: **Bldg-Addition**
Work Class:
Proposed Use: Commercial Public Garage
Permit Number: 970142000001315
Status:
Valuation: $8,000.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

C.O. Issued Date: **4/24/2007**
Date: **1/8/1997**
Permit Type:
Description: **Plan Check NEW 15' X 92' CARPORT CANOPY.**

Permit Description: **Bldg-Addition**
Work Class:
Proposed Use: Commercial Private Garage
Permit Number: 960142000001579
Status:
Valuation: $28,000.00
Contractor Company:
Contractor Name:

6849 TOPANGA CANYON BLVD

Date: **4/5/2012**
Permit Type:
Description: **No Plan Check ELECTRICAL 9 UNITS**

Permit Description: **Electrical**
Work Class:
Proposed Use: Commercial
Permit Number: 120412000007886
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: KALIN ENTERPRISES INC

ADJOINING PROPERTY FINDINGS

Date:	**4/4/2012**
Permit Type:	
Description:	**Plan Check Supplemental permit to remove structural observation from checklist items. NO FEE DEPT. ERROR**
Permit Description:	**Bldg-Alter/Repair**
Work Class:	
Proposed Use:	Commercial Retail
Permit Number:	110162000119120
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	KALIN ENTERPRISES INC

Date:	**4/4/2012**
Permit Type:	
Description:	**No Plan Check SUPPLEMENTAL PERMIT FOR EYE WASH STATION**
Permit Description:	**Plumbing**
Work Class:	
Proposed Use:	Commercial
Permit Number:	120422000101292
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	KALIN ENTERPRISES INC

Date:	**4/3/2012**
Permit Type:	
Description:	**No Plan Check replacement of 4-ton package unit**
Permit Description:	**HVAC**
Work Class:	
Proposed Use:	Commercial
Permit Number:	120449000003404
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	AIR TRO INCORPORATED

ADJOINING PROPERTY FINDINGS

Date: **3/22/2012**
Permit Type:
Description: **Plan Check Install racks/shelves in (E)retail space**

Permit Description: **Bldg-Alter/Repair**
Work Class:
Proposed Use: Commercial Retail
Permit Number: 110161000019120
Status:
Valuation: $8,000.00
Contractor Company:
Contractor Name: KALIN ENTERPRISES INC

Date: **3/22/2012**
Permit Type:
Description: **No Plan Check supplemental permit to permit #12044-100 -00752to add furnace and vent, environmental exhaust fan and 2 air inlet/outlets**

Permit Description: **HVAC**
Work Class:
Proposed Use: Commercial
Permit Number: 120442000200752
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: KALIN ENTERPRISES INC

Date: **3/20/2012**
Permit Type:
Description: **No Plan Check replacement of 2 existing 4-TON hvac sys tems**

Permit Description: **HVAC**
Work Class:
Proposed Use: Commercial
Permit Number: 120449000002941
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: AIR TRO INCORPORATED

ADJOINING PROPERTY FINDINGS

Date:	**2/27/2012**
Permit Type:	
Description:	**No Plan Check SUPPLEMENTAL PERMIT FOR INLETS/OUTLETS A ND WITNESS TEST.**
Permit Description:	**HVAC**
Work Class:	
Proposed Use:	Commercial
Permit Number:	120442000100752
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	KALIN ENTERPRISES INC

Date:	**2/2/2012**
Permit Type:	
Description:	**Plan Check ONE-TO-ONE RELOCATION OF 11 SPRINKLERS. THE ENTIRE SPACE IS FULLY SPRINKLERED.**
Permit Description:	**Fire Sprinkler**
Work Class:	
Proposed Use:	Commercial
Permit Number:	120432000000323
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	FLAME MASTER FIRE PROTECTION INC

Date:	**1/23/2012**
Permit Type:	
Description:	**Plan Check T24 lighting plna check for Sherwin Will iams Paint**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	Commercial
Permit Number:	110411000019596
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	KALIN ENTERPRISES INC

ADJOINING PROPERTY FINDINGS

Date:	**1/23/2012**
Permit Type:	
Description:	**No Plan Check T.I.-FIXTURES. 2 OF 2 W/ #12044-10000-00 752.**
Permit Description:	**Plumbing**
Work Class:	
Proposed Use:	Commercial
Permit Number:	120421000001292
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	KALIN ENTERPRISES INC

Date:	**1/23/2012**
Permit Type:	
Description:	**No Plan Check T.I.-DUCTWORK FOR A/C. 1 OF 2 W/ #12042- 10000-01292.**
Permit Description:	**HVAC**
Work Class:	
Proposed Use:	Commercial
Permit Number:	120441000000752
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	KALIN ENTERPRISES INC

ADJOINING PROPERTY FINDINGS

Date:	**1/19/2012**
Permit Type:	
Description:	**Plan Check TENANT IMPROVEMENT; DEMO, NEW WALLS, FIN ISHES, CEILING & LIGHTING; NEW ELECTRICAL & MECHANICAL DUCTWORK ONLY; NO NEW STRUCTURAL COMBINE EXISITNG RESTAURANT AND RETAIL USE TO JUST RETAIL. - PAINT SHOP WITH 2,329 STORAGE AREA (LESS THAN 1600 GALLONS OF FLAMMABLE / COMBUSTIBLE LIQUID IN STORAGE / SALE AREA)**
Permit Description:	**Bldg-Alter/Repair**
Work Class:	
Proposed Use:	Commercial Retail Restaurant
Permit Number:	110161000018132
Status:	
Valuation:	$180,000.00
Contractor Company:	
Contractor Name:	KALIN ENTERPRISES INC

Date:	**1/18/2012**
Permit Type:	
Description:	**Plan Check INSTALL 2 SETS OF ILLUMINATED CHANNEL LE TTER WALL SIGNS: [1] 24"x29'-7 1/2" read as "SHERWIN-WILLIAMS PAINTS"; [2] 22"x19'-7 3/4" read as "SHERWIN-WILLIAMS".**
Permit Description:	**Sign**
Work Class:	
Proposed Use:	Onsite Signs
Permit Number:	120481000000091
Status:	
Valuation:	$2,500.00
Contractor Company:	
Contractor Name:	D & D SIGN SERVICE

ADJOINING PROPERTY FINDINGS

Date: **4/26/2001**
Permit Type:
Description: **No Plan Check ADDING CIRCUITS.**

Permit Description: **Electrical**
Work Class:
Proposed Use: Commercial
Permit Number: 010412000008529
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: TES CONSTRUCTION

Date: **4/24/2001**
Permit Type:
Description: **No Plan Check SUPPLEMENTAL PERMIT ADD DUCT TYPE SMOKE DETECTORS, WITNESS TEST**

Permit Description: **HVAC**
Work Class:
Proposed Use: Commercial
Permit Number: 010443000100589
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: KRINSKY R L GENERAL CONTRACTORS INC

Date: **4/4/2001**
Permit Type:
Description: **Plan Check INSTALL ONE TYPE II HOOD AND DUCT WORK IN "QUIZNO'S SUBS" RESTAURANT.**

Permit Description: **HVAC**
Work Class:
Proposed Use: Commercial
Permit Number: 010443000003077
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: KRINSKY R L GENERAL CONTRACTORS INC

ADJOINING PROPERTY FINDINGS

Date:	**3/16/2001**
Permit Type:	
Description:	**No Plan Check LOWER SPRINKLER HEADS (1 TO 1)**
Permit Description:	**Fire Sprinkler**
Work Class:	
Proposed Use:	Commercial
Permit Number:	010432000000657
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	SWANSON MECHANICAL

Date:	**1/19/2001**
Permit Type:	
Description:	**Plan Check T.I. CHANGE OF USE FROM RETAIL TO RESTAURANT (PART OF BUILDING B) (ORIGINAL SHELL PLAN & PERMIT 99010-20000-03449 VERIFIED) NO CHANGE OF PARKING.**
Permit Description:	**Bldg-Alter/Repair**
Work Class:	
Proposed Use:	Commercial Retail Restaurant
Permit Number:	000161000021066
Status:	
Valuation:	$40,000.00
Contractor Company:	
Contractor Name:	KRINSKY R L GENERAL CONTRACTORS INC

ADJOINING PROPERTY FINDINGS

Date: **1/19/2001**
Permit Type:
Description: **No Plan Check NEW BRANCH CIRCUITS, SERVICE AND PANEL AND CIRCUIT FOR SIGN OR GAS TUBE SYS**

Permit Description: **Electrical**
Work Class:
Proposed Use: Commercial
Permit Number: 010413000001252
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: KRINSKY R L GENERAL CONTRACTORS INC

Date: **1/19/2001**
Permit Type:
Description: **No Plan Check ADD NEW FIXTURES**

Permit Description: **Plumbing**
Work Class:
Proposed Use: Commercial
Permit Number: 010423000000990
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: KRINSKY R L GENERAL CONTRACTORS INC

Date: **1/19/2001**
Permit Type:
Description: **No Plan Check REFRIG COMPRESSOR, EXHAUST FANS DUCT WORK**

Permit Description: **HVAC**
Work Class:
Proposed Use: Commercial
Permit Number: 010443000000589
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: KRINSKY R L GENERAL CONTRACTORS INC

ADJOINING PROPERTY FINDINGS

6851 TOPANGA CANYON BLVD

Date:	**3/20/2012**
Permit Type:	
Description:	**No Plan Check replacement of 5-TON HVAC system**
Permit Description:	**HVAC**
Work Class:	
Proposed Use:	Commercial
Permit Number:	120449000002940
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	AIR TRO INCORPORATED

Date:	**1/3/2012**
Permit Type:	
Description:	**No Plan Check TEMP. CAPPING OF GREASE INTERCEPTOR**
Permit Description:	**Plumbing**
Work Class:	
Proposed Use:	Commercial
Permit Number:	120422000000076
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	ANTAPLYAN HRANT GRANT

Date:	**2/10/2005**
Permit Type:	
Description:	**No Plan Check Permit of earthquake gas valve only**
Permit Description:	**Plumbing**
Work Class:	
Proposed Use:	Commercial
Permit Number:	050429000003521
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	T I INDUSTRIES

ADJOINING PROPERTY FINDINGS

Date: **1/31/2005**
Permit Type:
Description: **No Plan Check SUPPLEMENTAL PERMIT FOR (2) WATER USING DEVICES.**

Permit Description: **Plumbing**
Work Class:
Proposed Use: Commercial
Permit Number: 040422000128684
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: T I INDUSTRIES

Date: **1/27/2005**
Permit Type:
Description: **No Plan Check RELOCATE (4) SPRINKLER HEADS.**

Permit Description: **Fire Sprinkler**
Work Class:
Proposed Use: Commercial
Permit Number: 050431000000274
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: DE ANGELO FIRE PROTECTION INC

Date: **12/14/2004**
Permit Type:
Description: **Plan Check PROPOSE ONE 12'X3' ILLUMINATED WALL SIGN FOR "CINGULAR WIRELESS"**

Permit Description: **Sign**
Work Class:
Proposed Use: Onsite Signs
Permit Number: 040482000001666
Status:
Valuation: $3,204.00
Contractor Company:
Contractor Name: O'CONNOR ELECTRIC

ADJOINING PROPERTY FINDINGS

Date:	**12/1/2004**
Permit Type:	
Description:	**No Plan Check INSTALL WALK-IN COOLER, RELOCATE SUPPLY AND RETURN GRILLS FOR EXISTING HVAC SYSTEM, AND INSTALL BATHROOM EXHAUST FAN (CONTRACTOR ALSO HAS C38 LICENSE)**
Permit Description:	**HVAC**
Work Class:	
Proposed Use:	Commercial
Permit Number:	040442000012137
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	ADVANCED COMFORT INCORPORATED

Date:	**11/23/2004**
Permit Type:	
Description:	**Plan Check LISTED TYPE I HOOD (600 DEGREE F. RATING, 200/FT) - ZARRO CHICKEN & WRAPS...**
Permit Description:	**HVAC**
Work Class:	
Proposed Use:	Commercial
Permit Number:	040441000011908
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	ANTHONY STAINLESS STEEL SHEET METAL INSTALLATIONS

ADJOINING PROPERTY FINDINGS

Date: **10/4/2004**
Permit Type:
Description: **No Plan Check INSTALL 12 NEW OUTLETS ON EXISTING CIRCUITS**

Permit Description: **Electrical**
Work Class:
Proposed Use: Commercial
Permit Number: 040412000025032
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: T I INDUSTRIES

Date: **10/4/2004**
Permit Type:
Description: **No Plan Check T.I. TAKEOUT RESTAURANT. ENG. # ((40590-65)**

Permit Description: **Plumbing**
Work Class:
Proposed Use: Commercial
Permit Number: 040422000028684
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: T I INDUSTRIES

ADJOINING PROPERTY FINDINGS

Date:	**9/23/2004**
Permit Type:	
Description:	**Plan Check Revise permit to capture City planning approval condition sign-off. Change work description to: " Change use of 20' x 53' irregular-shaped portion of retail (990 sq ft floor area) to restaurant. No drive-thru. Hours of operation shall be limited to 7:00 AM to 11:00 PM.**
Permit Description:	**Bldg-Alter/Repair**
Work Class:	
Proposed Use:	Commercial Retail Restaurant
Permit Number:	040162000116130
Status:	
Valuation:	$301.00
Contractor Company:	
Contractor Name:	

Date:	**9/14/2004**
Permit Type:	
Description:	**Plan Check Change use of 20' x 53' retail to restaurant. Hours of operation shall be between 7:00 AM to 11:00 PM only.**
Permit Description:	**Bldg-Alter/Repair**
Work Class:	
Proposed Use:	Commercial Retail Restaurant
Permit Number:	040162000016130
Status:	
Valuation:	$32,000.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date: **11/12/2003**
Permit Type:
Description: **No Plan Check SUPPLEMENTAL PERMIT FOR ONE 20 AMP CIRCUIT**

Permit Description: **Electrical**
Work Class:
Proposed Use: Commercial
Permit Number: 030412000109872
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: TOP WORLD ENGINEERING & CONSTRUCTION CO

Date: **11/12/2003**
Permit Type:
Description: **No Plan Check SUPPLEMENTAL PERMIT FOR (8) 20 AMP CIRCUITS, (2) 3.1 - 5 CIRCUITS.**

Permit Description: **Electrical**
Work Class:
Proposed Use: Commercial
Permit Number: 030412000209872
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: TOP WORLD ENGINEERING & CONSTRUCTION CO

Date: **7/15/2003**
Permit Type:
Description: **No Plan Check Supplemetal permit for Type 1 Hood.**

Permit Description: **HVAC**
Work Class:
Proposed Use: Commercial
Permit Number: 030442000105067
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: TOP WORLD ENGINEERING & CONSTRUCTION CO

ADJOINING PROPERTY FINDINGS

Date: **7/9/2003**
Permit Type:
Description: **Plan Check Install Type 1 Commercial Kitchen hood for popcorn machine.**

Permit Description: **HVAC**
Work Class:
Proposed Use: Commercial
Permit Number: 030442000005067
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: TOP WORLD ENGINEERING & CONSTRUCTION CO

Date: **5/6/2003**
Permit Type:
Description: **No Plan Check INSTALL OUTLETS FROM EXISTING CIRCUITS**

Permit Description: **Electrical**
Work Class:
Proposed Use: Commercial
Permit Number: 030412000009872
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: TOP WORLD ENGINEERING & CONSTRUCTION CO

Date: **5/6/2003**
Permit Type:
Description: **No Plan Check T.I.**

Permit Description: **Plumbing**
Work Class:
Proposed Use: Commercial
Permit Number: 030422000014490
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: TOP WORLD ENGINEERING & CONSTRUCTION CO

ADJOINING PROPERTY FINDINGS

Date: **11/4/2002**
Permit Type:
Description: **Plan Check NEW ILLUM WALL SIGN 2'6"X11' FOR "HOLLYWOOD POPCORN."**

Permit Description: **Sign**
Work Class:
Proposed Use: Onsite Signs
Permit Number: 020482000001520
Status:
Valuation: $3,000.00
Contractor Company:
Contractor Name: A-TOP / LO SIGN

Date: **9/27/2002**
Permit Type:
Description: **Plan Check (N) RETAIL STORE TO SELL POPCORN TO GO (NO SEATING) NO CHANGE IN PARKING**

Permit Description: **Bldg-Alter/Repair**
Work Class:
Proposed Use: 1 or 2 Family Dwelling Retail
Permit Number: 020162000006362
Status:
Valuation: $20,000.00
Contractor Company:
Contractor Name:

Date: **4/6/2001**
Permit Type:
Description: **Plan Check One channel letter internally illuminated wall sign. Al & Ed Autosound - 32'5" x 30"**

Permit Description: **Sign**
Work Class:
Proposed Use: Onsite Signs
Permit Number: 010487000000482
Status:
Valuation: $2,500.00
Contractor Company:
Contractor Name: SAN PEDRO SIGN

ADJOINING PROPERTY FINDINGS

Date:	**3/1/2001**
Permit Type:	
Description:	**No Plan Check INSTALL THREE 1" GAS SYSTEMS AND ONE 1.5 GAS SYSTEM (10 OUTLETS)**
Permit Description:	**Plumbing**
Work Class:	
Proposed Use:	Commercial
Permit Number:	010422000003173
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	WEST VALLEY BUILDERS INC

Date:	**2/12/2001**
Permit Type:	
Description:	**No Plan Check INSTALL 2 ROOF DRAINS, 2 OVER FLOWS, 3 - 1" WATERS SERVICE AND 1 - 1.5" WATER SERVICE (BLDG. PERMIT NO. 99010-20000-03449)**
Permit Description:	**Plumbing**
Work Class:	
Proposed Use:	Commercial
Permit Number:	010422000002210
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	WEST VALLEY BUILDERS INC

Date:	**1/30/2001**
Permit Type:	
Description:	**Plan Check (2) Double face illuminated monument sign 1- (6' x 7') & 1- (6' x 10')**
Permit Description:	**Sign**
Work Class:	
Proposed Use:	Onsite Signs
Permit Number:	000487000002077
Status:	
Valuation:	$5,000.00
Contractor Company:	
Contractor Name:	SAN PEDRO SIGN

ADJOINING PROPERTY FINDINGS

Date:	**12/12/2000**
Permit Type:	
Description:	**No Plan Check HVAC- INSTALL (6) PACKAGE UNITS. B-PERMIT # 99010-20000-03449 BATHROOM FANS, DUCT TYPE SMOKE DETECTORS & WITNESS TEST.**
Permit Description:	**HVAC**
Work Class:	
Proposed Use:	Commercial
Permit Number:	000442000009273
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	WEST VALLEY BUILDERS INC

Date:	**10/18/2000**
Permit Type:	
Description:	**Plan Check Installation of the fire protection system in the retail store with un der ground. 4" detector check, no backflow preventer req.**
Permit Description:	**Fire Sprinkler**
Work Class:	
Proposed Use:	Commercial
Permit Number:	000432000002728
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	METRO FIRE PROTECTION

Date:	**8/22/2000**
Permit Type:	
Description:	**Plan Check NEW COMMERCIAL SHELL FOR STRIP MALL**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	Commercial
Permit Number:	000412000013516
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	WEST VALLEY BUILDERS INC

ADJOINING PROPERTY FINDINGS

Date:	**8/15/2000**
Permit Type:	
Description:	**No Plan Check T.I. INSTALL NEW FIXTURES.**
Permit Description:	**Plumbing**
Work Class:	
Proposed Use:	Commercial
Permit Number:	000422000012496
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	WEST VALLEY BUILDERS INC

6855 TOPANGA CANYON BLVD

Date:	**10/17/2007**
Permit Type:	
Description:	**Plan Check REPLACE ONE INTERNALLY ILLUMINATED WALL SIGN. SIGN IS 2'-4" X 11'-0" (22.45 SF). READS "A LOTTA WIRELESS, AT&T". MAX LIGHTING POWER ALLOWED = 12 WATTS PER SF. PER APPROVED PLANS.**
Permit Description:	**Sign**
Work Class:	
Proposed Use:	Onsite Signs
Permit Number:	070481000001885
Status:	
Valuation:	$4,200.00
Contractor Company:	
Contractor Name:	SIGNTECH ELECTRICAL ADVERTISING INC

ADJOINING PROPERTY FINDINGS

Date: **12/5/2003**
Permit Type:
Description: **No Plan Check SUPPLEMENTAL PERMIT**

Permit Description: **HVAC**
Work Class:
Proposed Use: Commercial
Permit Number: 030442000111693
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: K & S AIR CONDITIONING

Date: **11/25/2003**
Permit Type:
Description: **Plan Check ELECT PLAN CHECK TO COMPLY WITH T-24 STATE ENERGY REG'S ONLY. ELECT PERMIT FOR 30 NEW BR CKTS.**

Permit Description: **Electrical**
Work Class:
Proposed Use: Commercial
Permit Number: 030412000027322
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: GLENRIDGE ELECTRIC

Date: **11/25/2003**
Permit Type:
Description: **No Plan Check REPLACE HVAC PACKAGE UNIT, RE-DUCT EXISTING UNIT AND ADD 3 BATHROOM FANS.**

Permit Description: **HVAC**
Work Class:
Proposed Use: Commercial
Permit Number: 030442000011693
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: K & S AIR CONDITIONING

ADJOINING PROPERTY FINDINGS

Date: **11/21/2003**
Permit Type:
Description: **No Plan Check RELOCATE 31 SPRINKLER HEADS 1 TO 1.**

Permit Description: **Fire Sprinkler**
Work Class:
Proposed Use: Commercial
Permit Number: 030432000002691
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: ALLREADY FIRE SPRINKLER

Date: **11/20/2003**
Permit Type:
Description: **No Plan Check Tenant improvement. Add two restrooms**

Permit Description: **Plumbing**
Work Class:
Proposed Use: Commercial
Permit Number: 030429000036524
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: ENTERPRISE PROPERTY SERVICES

Date: **10/31/2003**
Permit Type:
Description: **Plan Check TENANT IMPROVEMENT, NON-STRUCTURAL AND ALL INTERIOR WORK: DEMOAND INSTALL PARTITION WALLS TO CREATE OFFICES, TWO NEW BATHROOMS AND ONE NEW A/C UNIT EQUIP. AT ROOF.**

Permit Description: **Bldg-Alter/Repair**
Work Class:
Proposed Use: Commercial Retail
Permit Number: 030161000020906
Status:
Valuation: $60,000.00
Contractor Company:
Contractor Name: CONTRACTOR MANAGEMENT GROUP

ADJOINING PROPERTY FINDINGS

Date: **9/24/2003**
Permit Type:
Description: **Plan Check NEW 2'6'X13'11" ILLUMINATED WALL SIGN "AT&T WIRELESS"**

Permit Description: **Sign**
Work Class:
Proposed Use: Onsite Signs
Permit Number: 030482000001261
Status:
Valuation: $1,500.00
Contractor Company:
Contractor Name: MALL SIGNS & SERVICE

6859 TOPANGA CANYON BLVD

Date: **10/20/2017**
Permit Type:
Description: **Plan Check**

Permit Description: **Electrical**
Work Class:
Proposed Use: Commercial
Permit Number: 170411000037882
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: HERZOG M B ELECTRIC INC

Date: **7/18/2016**
Permit Type:
Description: **Plan Check INSTALL (2) ILLUMINATED CHANNEL LETTER**

Permit Description: **Sign**
Work Class:
Proposed Use: Onsite Signs
Permit Number: 160482000001708
Status:
Valuation: $10,000.00
Contractor Company:
Contractor Name: JONES SIGN CO INC

ADJOINING PROPERTY FINDINGS

Date:	**8/26/2014**
Permit Type:	
Description:	**No Plan Check REPLACE (9) HARD WIRE OUTLETS FOR HEATI G TRAYS OFF EXISTING BRANCH CIRCUITS**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	Commercial
Permit Number:	140412000023288
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	JT ELECTRIC

Date:	**5/1/2001**
Permit Type:	
Description:	**No Plan Check SUPPLEMENTAL- 1-HOUR WITNESS TEST.**
Permit Description:	**HVAC**
Work Class:	
Proposed Use:	Commercial
Permit Number:	010442000101886
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	ROCKWALL CONSTRUCTION

Date:	**3/28/2001**
Permit Type:	
Description:	**Plan Check SUPPLEMENTAL PERMIT FOR 01048-10000-00346, CHANGING CONTRACTOR FROM PROMOTIONAL SIGNS INC. TO ULTRANEON SIGN CO.**
Permit Description:	**Bldg-Alter/Repair**
Work Class:	
Proposed Use:	Commercial Retail
Permit Number:	010481000100346
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	ULTRANEON SIGN CORPORATION

ADJOINING PROPERTY FINDINGS

Date: **3/12/2001**
Permit Type:
Description: **Plan Check ADD 16 PENDENT HEADS, UPRIGHT HEADS TO REMAIN, ONE STORY BLDG.**

Permit Description: **Fire Sprinkler**
Work Class:
Proposed Use: Commercial
Permit Number: 010431000000607
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: FOUNTAIN FIRE PROTECTION INC

Date: **3/8/2001**
Permit Type:
Description: **Plan Check NEW WALL SIGNS - 2 SETS OF CHANNEL LETTERS W/LOGO DISK (22'6 X 3'0) AND I - LOGO DISK (4' DIA.)**

Permit Description: **Sign**
Work Class:
Proposed Use: Onsite Signs
Permit Number: 010481000000346
Status:
Valuation: $8,700.00
Contractor Company:
Contractor Name: PROMOTIONAL SIGNS

Date: **2/27/2001**
Permit Type:
Description: **Plan Check ENERGY ONLY FOR PANDA EXPRESS T.I. IN EXISTING BLDG.**

Permit Description: **Electrical**
Work Class:
Proposed Use: Commercial
Permit Number: 010412000001808
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: ROCKWALL CONSTRUCTION

ADJOINING PROPERTY FINDINGS

Date: **2/27/2001**
Permit Type:
Description: **Plan Check Plan check domestic water supply system for restaurant.**

Permit Description: **Plumbing**
Work Class:
Proposed Use: Commercial
Permit Number: 010422000001459
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: ROCKWALL CONSTRUCTION

Date: **2/27/2001**
Permit Type:
Description: **Plan Check LOW PRESSURE GAS SYSTEM FOR PANDA EXPRESS**

Permit Description: **Plumbing**
Work Class:
Proposed Use: Commercial
Permit Number: 010422000003030
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: ROCKWALL CONSTRUCTION

Date: **2/27/2001**
Permit Type:
Description: **Plan Check Plan check type I kitchen hood system for restaurant.**

Permit Description: **HVAC**
Work Class:
Proposed Use: Commercial
Permit Number: 010442000000875
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: ROCKWALL CONSTRUCTION

ADJOINING PROPERTY FINDINGS

Date:	**2/27/2001**
Permit Type:	
Description:	**No Plan Check INSTALL PACKAGE HEAT PUMP, BATHFAN, DUCTWORK, ALTERATION & COMPONENTS.**
Permit Description:	**HVAC**
Work Class:	
Proposed Use:	Commercial
Permit Number:	010442000001886
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	ROCKWALL CONSTRUCTION

Date:	**2/26/2001**
Permit Type:	
Description:	**Plan Check Tenant improvement for 35' x 57'restaurant - B occupancy - 49 max. occ (46 fixed seats and 3 movable seats)**
Permit Description:	**Bldg-Alter/Repair**
Work Class:	
Proposed Use:	Commercial Restaurant
Permit Number:	000162000020425
Status:	
Valuation:	$100,000.00
Contractor Company:	
Contractor Name:	ROCKWALL CONSTRUCTION

ADJOINING PROPERTY FINDINGS

6901 TOPANGA CANYON BLVD

Date:	**6/19/2018**
Permit Type:	
Description:	**No Plan Check**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	Commercial
Permit Number:	180412000022863
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	PROJECT ONE CONSTRUCTION

Date:	**6/19/2018**
Permit Type:	
Description:	**No Plan Check**
Permit Description:	**Plumbing**
Work Class:	
Proposed Use:	Commercial
Permit Number:	180422000014848
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	PROJECT ONE CONSTRUCTION

C.O. Issued Date:	**7/9/2018**
Date:	**5/23/2018**
Permit Type:	
Description:	**Plan Check Change of use from retail to massage pa**
Permit Description:	**Bldg-Alter/Repair**
Work Class:	
Proposed Use:	Commercial Retail Retail
Permit Number:	180162000014535
Status:	
Valuation:	$3,000.00
Contractor Company:	
Contractor Name:	GOSUN CONSTRUCTION

ADJOINING PROPERTY FINDINGS

Date:	**8/29/2013**
Permit Type:	
Description:	**No Plan Check Re-roof with Class A or B material weigh ing less than 6 pound per sq. ft. Valuation to be verified by Inspector.**
Permit Description:	**Bldg-Alter/Repair**
Work Class:	
Proposed Use:	Commercial Retail
Permit Number:	130162000017842
Status:	
Valuation:	$13,700.00
Contractor Company:	
Contractor Name:	GARCIA I ROOFING COMPANY

Date:	**1/29/2010**
Permit Type:	
Description:	**Plan Check MODIFICATION TO EXISTING ROOF-TOP WIRELESS TELECOMMUNICATIONS FACILITY. REPLACE TWO PANEL ANTENNAS, INSTALL ONE NEW PANEL ANTENNA, THREE PARABOLIC ANTENNAS, ONE GPS ANTENNA, AND ONE EQUIPMENT RACK ON ROOF OF (E) MECH. PENTHOUSE. ALL WORK PER ZA 2001-3724(CU)**
Permit Description:	**Bldg-Alter/Repair**
Work Class:	
Proposed Use:	Commercial Office
Permit Number:	090161000015551
Status:	
Valuation:	$31,500.00
Contractor Company:	
Contractor Name:	RYMAN ENTERPRISES INC

ADJOINING PROPERTY FINDINGS

Date: **8/30/2001**
Permit Type:
Description: **No Plan Check Change of contractor from owner to B-1 Contractor.**

Permit Description: **Bldg-Alter/Repair**
Work Class:
Proposed Use: Commercial Office
Permit Number: 010162000114727
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: BIG STAR DEVELOPMENT CONSTRUCTION CO

Date: **8/30/2001**
Permit Type:
Description: **No Plan Check Install 2 shampoo bowl sinks and water heater.**

Permit Description: **Plumbing**
Work Class:
Proposed Use: Commercial
Permit Number: 010422000013138
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: BIG STAR DEVELOPMENT CONSTRUCTION CO

Date: **8/7/2001**
Permit Type:
Description: **Plan Check Convert retail space to hair saloon**

Permit Description: **Bldg-Alter/Repair**
Work Class:
Proposed Use: Commercial Office Retail
Permit Number: 010162000014727
Status:
Valuation: $25,000.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date:	**8/20/1999**
Permit Type:	
Description:	**Plan Check RAISE EXISTING PARAPET BY 2' AND 3'6" AND RESTUCCO ENTIRE FRONT FACE OF 3 STORY BLOCK OFFICE BLDG**
Permit Description:	**Bldg-Alter/Repair**
Work Class:	
Proposed Use:	Commercial Office
Permit Number:	990162000015035
Status:	
Valuation:	$21,500.00
Contractor Company:	
Contractor Name:	

6903 TOPANGA CANYON BLVD

Date:	**3/5/2010**
Permit Type:	
Description:	**No Plan Check RECEPTACLE FOR TELECOM EQUIPMENT IN EXISTING SHELTER.**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	Commercial
Permit Number:	100419100003489
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	RYMAN ENTERPRISES INC

ADJOINING PROPERTY FINDINGS

Date: **3/30/2006**
Permit Type:
Description: **No Plan Check ADD (6) CIRCUITS FOR RECEPTACLES. (NO LIGHTING) 2 OF 2 W/ PERMIT #06042-10000-07219.**

Permit Description: **Electrical**
Work Class:
Proposed Use: Commercial
Permit Number: 060411000007808
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: TOTAL CONSTRUCTION

Date: **3/30/2006**
Permit Type:
Description: **No Plan Check T.I. REPLACE EXISTING FIXTURES AND INSTALL NEW FIXTURES. (1 OF 2 W/ PERMIT #06041-10000-07808)**

Permit Description: **Plumbing**
Work Class:
Proposed Use: Commercial
Permit Number: 060421000007219
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: TOTAL CONSTRUCTION

C.O. Issued Date: **7/25/2006**
Date: **3/30/2006**
Permit Type:
Description: **Plan Check CHANGE OF USE FROM DRIVING SCHOOL TO RETAIL/MEAT MARKET.**

Permit Description: **Bldg-Alter/Repair**
Work Class:
Proposed Use: Commercial School Retail
Permit Number: 060161000003621
Status:
Valuation: $25,000.00
Contractor Company:
Contractor Name: TOTAL CONSTRUCTION

ADJOINING PROPERTY FINDINGS

Date:	**4/1/2003**
Permit Type:	
Description:	**Plan Check CHG OF USE FROM RETAIL TO DRIVING & TRAFFIC SCHOOL ADD TWO WALLS TO CREATE THREE ROOMS OFFICE SIMULATOR ROOM, CLASS ROOM, INT. DOORS FOR ENTRY TO EACH ROOM.**
Permit Description:	**Bldg-Alter/Repair**
Work Class:	
Proposed Use:	Commercial Office Office
Permit Number:	030162000003833
Status:	
Valuation:	$15,000.00
Contractor Company:	
Contractor Name:	

6911 TOPANGA CANYON BLVD

Date:	**3/15/2018**
Permit Type:	
Description:	**No Plan Check**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	Commercial
Permit Number:	180419000009445
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	NEW WAVE TELECT

ADJOINING PROPERTY FINDINGS

Date: **5/31/2016**
Permit Type:
Description: **No Plan Check Reroof with 72 sqrs BUILT UP roofing. E**

Permit Description: **Bldg-Alter/Repair**
Work Class:
Proposed Use: Commercial Office
Permit Number: 160169000012530
Status:
Valuation: $14,400.00
Contractor Company:
Contractor Name: APPLIED BUILDING SERVICES INC

Date: **2/27/2003**
Permit Type:
Description: **No Plan Check data cable installation**

Permit Description: **Electrical**
Work Class:
Proposed Use: Commercial
Permit Number: 030419000004216
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: PEZESHK ELECTRONIC

Date: **2/26/2003**
Permit Type:
Description: **No Plan Check Inspector Falouge informed us to receive a water heater permit**

Permit Description: **Plumbing**
Work Class:
Proposed Use: Commercial
Permit Number: 030429000006114
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: ROOTER MASTER

ADJOINING PROPERTY FINDINGS

Date:	**2/14/2003**
Permit Type:	
Description:	**Plan Check Install new panels, circuits, emergency lights and exit signs in the "Planet Cyber" store.**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	Commercial
Permit Number:	030412000003252
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	PEZESHK ELECTRONIC

Date:	**2/13/2003**
Permit Type:	
Description:	**Plan Check Remodel a 308 s.f. portion of an existing retail store to create a new cafe area. Take -Out only . No new walls.**
Permit Description:	**Bldg-Alter/Repair**
Work Class:	
Proposed Use:	Commercial Office Office
Permit Number:	030161000002408
Status:	
Valuation:	$20,000.00
Contractor Company:	
Contractor Name:	

Date:	**2/12/2003**
Permit Type:	
Description:	**No Plan Check T.I.**
Permit Description:	**Plumbing**
Work Class:	
Proposed Use:	Commercial
Permit Number:	030422000004654
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	ROOTER MASTER

ADJOINING PROPERTY FINDINGS

Date:	**5/12/2000**
Permit Type:	
Description:	**No Plan Check Dental office remodel. Permit for non-ltg circuits only. T-24 to be submitted separately.**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	Commercial
Permit Number:	000412000009530
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	MEJIA ELECTRICAL CONTRACTOR

Date:	**5/4/2000**
Permit Type:	
Description:	**Plan Check CHANGE OF USE/OCCUPANCY: CONVERT 20' X 70' PORTTION OF RETAIL, "M" OCC. TO DENTAL OFFICE-"B" OCCUPANCY. INSTALL INTERIOR ON-NON BEARING PARTITION WALLS...AREA=1400SF.**
Permit Description:	**Bldg-Alter/Repair**
Work Class:	
Proposed Use:	Commercial Retail Retail
Permit Number:	990162000023699
Status:	
Valuation:	$54,800.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date: **12/29/1999**
Permit Type:
Description: **No Plan Check T.I. - INSTALL NEW FIXTURES**

Permit Description: **Plumbing**
Work Class:
Proposed Use: Commercial
Permit Number: 990422000018050
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: MC MAHON PLUMBING

6921 TOPANGA CANYON BLVD

Date: **3/9/2015**
Permit Type:
Description: **No Plan Check**

Permit Description: **Electrical**
Work Class:
Proposed Use: Commercial
Permit Number: 150411000006856
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: SUPERIOR ELECTRICAL MECHANICAL & PLUMBING INC

Date: **7/31/1998**
Permit Type:
Description: **No Plan Check INSTALLING NEW BACKFLOW DEVICE**

Permit Description: **Plumbing**
Work Class:
Proposed Use: Commercial
Permit Number: 980421000010131
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: CAL SELECT BUILDERS

ADJOINING PROPERTY FINDINGS

Date: **6/15/1998**
Permit Type:
Description: **No Plan Check INSTALL NEW DUPLEX OUTLET.**

Permit Description: **Electrical**
Work Class:
Proposed Use: Commercial
Permit Number: 980411000011701
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: CAL SELECT BUILDERS

Date: **6/15/1998**
Permit Type:
Description: **No Plan Check INSTALL NEW FLOR SINK & RETHERMALIZER UNIT.**

Permit Description: **Plumbing**
Work Class:
Proposed Use: Commercial
Permit Number: 980421000007999
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: CAL SELECT BUILDERS

6931 TOPANGA CANYON BLVD

Date: **9/18/2009**
Permit Type:
Description: **No Plan Check TOILET REPLACEMENT**

Permit Description: **Plumbing**
Work Class:
Proposed Use: Commercial
Permit Number: 090429000016637
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: PIONEER PLUMBING

ADJOINING PROPERTY FINDINGS

Date:	**12/22/1999**
Permit Type:	
Description:	**No Plan Check T/O (E) ROOF. RE-ROOF WITH BUILT-UP ROOF CONSISTING OF FIBERGLASS BASE SHEET (NAILED), TWO LAYERS OF GLASS PLY AND MINERAL SURFACED CAP SHEET IN HOT ASPHALT, CLASS "A" MATERIAL, APROX. 38SQ.**
Permit Description:	**Bldg-Alter/Repair**
Work Class:	
Proposed Use:	Commercial Retail
Permit Number:	990162000023970
Status:	
Valuation:	$6,000.00
Contractor Company:	
Contractor Name:	PAUL C. TRUSKETT

6949 TOPANGA CANYON BLVD

Date:	**3/30/2018**
Permit Type:	
Description:	**Plan Check**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	Commercial
Permit Number:	180411000011525
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	ELEMENT RENEWABLE ENERGY INC, CURTIS CONSTRUCTION SERVICES

ADJOINING PROPERTY FINDINGS

Date: **10/29/2015**
Permit Type:
Description: **No Plan Check**

Permit Description: **Plumbing**
Work Class:
Proposed Use: Commercial
Permit Number: 150422000121363
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: FANTASTIC PLUMBING

TOPANGA CANYON BLVD BLDG A

6841 TOPANGA CANYON BLVD BLDG A

Date: **4/2/2007**
Permit Type:
Description: **No Plan Check REPLACE EXISTING SEWER ENGINEERING NUMBER S8881-1232**

Permit Description: **Plumbing**
Work Class:
Proposed Use: Commercial
Permit Number: 070422000007218
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: PERUSE PLUMBING

ADJOINING PROPERTY FINDINGS

Date: **3/16/2007**
Permit Type:
Description: **No Plan Check HVAC Fan Shutdown Test**

Permit Description: **HVAC**
Work Class:
Proposed Use: Commercial
Permit Number: 070449000002759
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: GRAYCON INC

Date: **3/8/2007**
Permit Type:
Description: **Plan Check NEW INFORMATION SIGN (MENU BOARD 4'-3" X 4'-6" X 6'-5" HIGH).**

Permit Description: **Sign**
Work Class:
Proposed Use: Onsite Signs
Permit Number: 070482000000287
Status:
Valuation: $1,700.00
Contractor Company:
Contractor Name: GRAPHIC INSTALLATION SERVICES

Date: **2/21/2007**
Permit Type:
Description: **Plan Check THREE INTERNALLY ILL. WALL SIGNS (6'3" X 10'6") (IN-N-OUT BURGER)**

Permit Description: **Sign**
Work Class:
Proposed Use: Onsite Signs
Permit Number: 070482000000285
Status:
Valuation: $4,000.00
Contractor Company:
Contractor Name: GRAPHIC INSTALLATION SERVICES

ADJOINING PROPERTY FINDINGS

Date: **1/16/2007**
Permit Type:
Description: **Plan Check type 1 and 2 hoods and ventilation for new in-n-out burger restaurant.**

Permit Description: **HVAC**
Work Class:
Proposed Use: Commercial
Permit Number: 060442000003199
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: GRAYCON INC

Date: **11/8/2006**
Permit Type:
Description: **Plan Check Plumbing for new in-n-out burger restaurant. Existing meter, backflow prevention device and pressure regulating valve.**

Permit Description: **Plumbing**
Work Class:
Proposed Use: Commercial
Permit Number: 060422000007126
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: PERUSE PLUMBING

Date: **10/16/2006**
Permit Type:
Description: **Plan Check RESTAURANT**

Permit Description: **Electrical**
Work Class:
Proposed Use: Commercial
Permit Number: 060412000007732
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: JACKSON BURLEY V JR

ADJOINING PROPERTY FINDINGS

C.O. Issued Date: **4/27/2007**
Date: **10/16/2006**
Permit Type:
Description: **Plan Check TENANT IMPROVEMENT FOR RESTAURANT [IN-N-OUT BURGER] WITH 2'X20' ADDITION.**

Permit Description: **Bldg-Addition**
Work Class:
Proposed Use: Commercial Restaurant Restaurant
Permit Number: 060162000006023
Status:
Valuation: $350,000.00
Contractor Company:
Contractor Name: ALLEN ROBERT H

Date: **8/17/2006**
Permit Type:
Description: **No Plan Check LOW VOLTAGE.**

Permit Description: **Electrical**
Work Class:
Proposed Use: Commercial
Permit Number: 060411000020651
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: ORANGE COUNTY FIRE PROTECTION

Date: **5/15/2001**
Permit Type:
Description: **Plan Check APPROX. 20 LIN FT. OF 6' BLOCK WALL PER CITY STD.**

Permit Description: **Nonbldg-New**
Work Class:
Proposed Use: Commercial Misc. Bldg or Structure
Permit Number: 010202000001236
Status:
Valuation: $936.00
Contractor Company:
Contractor Name: ICON

ADJOINING PROPERTY FINDINGS

Date: **4/4/2001**
Permit Type:
Description: **No Plan Check supplemental permit for 2 bathroom exhausts.**

Permit Description: **HVAC**
Work Class:
Proposed Use: Commercial
Permit Number: 000442000209275
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: WEST VALLEY BUILDERS INC

Date: **1/30/2001**
Permit Type:
Description: **Plan Check Proposed 6'-0" high max. concrete masonry block fence wall per L.A. City Standard Detail (approx. 62 lineal feet).**

Permit Description: **Nonbldg-New**
Work Class:
Proposed Use: Commercial Misc. Bldg or Structure
Permit Number: 010202000000261
Status:
Valuation: $3,000.00
Contractor Company:
Contractor Name: WEST VALLEY BUILDERS INC

Date: **1/30/2001**
Permit Type:
Description: **No Plan Check INSTALLATION OF REFRIGERATION EQUIPMENT**

Permit Description: **HVAC**
Work Class:
Proposed Use: Commercial
Permit Number: 010442000000924
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: OMNI-TEMP REFRIGERATION

ADJOINING PROPERTY FINDINGS

Date: **1/24/2001**
Permit Type:
Description: **No Plan Check comp. for the cooler**

Permit Description: **HVAC**
Work Class:
Proposed Use: Commercial
Permit Number: 000442000109275
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: WEST VALLEY BUILDERS INC

Date: **1/24/2001**
Permit Type:
Description: **Plan Check**

Permit Description: **HVAC**
Work Class:
Proposed Use: Commercial
Permit Number: 010442000000706
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: DATTILO'S MARK HEATING & AIR-CONDITIONING

Date: **12/12/2000**
Permit Type:
Description: **No Plan Check INSTALL 2 ROOF DRAINS AND 2 OVER FLOW DRAINS**

Permit Description: **Plumbing**
Work Class:
Proposed Use: Commercial
Permit Number: 000422000019090
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: WEST VALLEY BUILDERS INC

ADJOINING PROPERTY FINDINGS

Date:	**12/12/2000**
Permit Type:	
Description:	**No Plan Check B-PERMIT #99010-20000-03792. INSTALL (7) PACKAGE UNITS, BATHROOM FANS, DUCT TYPE SMOKE DETECTORS, & WITNESS TEST.**
Permit Description:	**HVAC**
Work Class:	
Proposed Use:	Commercial
Permit Number:	000442000009275
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	WEST VALLEY BUILDERS INC

Date:	**10/17/2000**
Permit Type:	
Description:	**Plan Check Revise 00VN76465 to relocate drive through window. Delete one non-required parking. Change driveway width to 30 ft. Check roof truss design.**
Permit Description:	**Bldg-Alter/Repair**
Work Class:	
Proposed Use:	Commercial Restaurant
Permit Number:	990102000103792
Status:	
Valuation:	$3,000.00
Contractor Company:	
Contractor Name:	WEST VALLEY BUILDERS INC

Date:	**10/12/2000**
Permit Type:	
Description:	**No Plan Check 3-CIRCUITS FOR EXPOSED NEON**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	Commercial
Permit Number:	000414000020968
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	SUPERIOR ELECTRICAL ADVERTISING

ADJOINING PROPERTY FINDINGS

Date:	**10/12/2000**
Permit Type:	
Description:	**Plan Check 2 NEW ILLUMINATED DIRECTIONAL SIGNS (1'-8" X 2'-4"), 3' HIGH SIGNS READ: "DRIVE THRU"AND "EXIT ONLY/ THANK YOU" 2 NEW ILLUMINATED MANUBOARD SIGNS (4'-2" X 4'-2"), 5'-8" HIGH**
Permit Description:	**Sign**
Work Class:	
Proposed Use:	Onsite Signs
Permit Number:	000484000001827
Status:	
Valuation:	$5,600.00
Contractor Company:	
Contractor Name:	SUPERIOR ELECTRICAL ADVERTISING

Date:	**10/10/2000**
Permit Type:	
Description:	**Plan Check 3 NEW ILLUMINATED WALL SIGNS (3'-9" X 10'-7"). SIGNS READ: "KRISPY KREME DOUGHUNTS" 3 NEW ILLUMINATED WALL SIGNS (4'-0" X 5'-6") 1 NEW ILLUMINATED WINDOW SIGN (2'-6" X 3'-6") SIGNS READ: " HOT DOUGHNUTS NOW"**
Permit Description:	**Sign**
Work Class:	
Proposed Use:	Onsite Signs
Permit Number:	000484000001807
Status:	
Valuation:	$4,800.00
Contractor Company:	
Contractor Name:	SUPERIOR ELECTRICAL ADVERTISING

ADJOINING PROPERTY FINDINGS

Date:	**9/27/2000**
Permit Type:	
Description:	**Plan Check Tenant improvement (original building permit # 99010-20000-03792) fixtures layout, interior walls, exterior wall furr out**
Permit Description:	**Bldg-Alter/Repair**
Work Class:	
Proposed Use:	Commercial Restaurant
Permit Number:	000162000016400
Status:	
Valuation:	$150,000.00
Contractor Company:	
Contractor Name:	ICON

Date:	**9/18/2000**
Permit Type:	
Description:	**Plan Check Complete plumbing in commercial building. 11/2" METER/ WITH 11/2" R.P.BACKFLOW PREVENTOR.**
Permit Description:	**Plumbing**
Work Class:	
Proposed Use:	Commercial
Permit Number:	000422000014352
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	WILLIAMSON RICHARD PLUMBING

Date:	**9/5/2000**
Permit Type:	
Description:	**Plan Check 1ST TIME TENANT IN EXISTING RETAIL SHELL BUILDING.**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	Commercial
Permit Number:	000412000018181
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	AM PM ELECTRIC

ADJOINING PROPERTY FINDINGS

Date: **8/22/2000**
Permit Type:
Description: **Plan Check NEW COMMERCIAL STRIP MALL SHELL**

Permit Description: **Electrical**
Work Class:
Proposed Use: Commercial
Permit Number: 000412000013513
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: WEST VALLEY BUILDERS INC

Date: **8/15/2000**
Permit Type:
Description: **No Plan Check INSTALL FLOOR DRAIN & TRAP PRIMER.**

Permit Description: **Plumbing**
Work Class:
Proposed Use: Commercial
Permit Number: 000422000012495
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: WEST VALLEY BUILDERS INC

Date: **7/31/2000**
Permit Type:
Description: **Plan Check Block wall 6 ft high x 214 ft long per city standard details**

Permit Description: **Nonbldg-New**
Work Class:
Proposed Use: Commercial Misc. Bldg or Structure
Permit Number: 000202000002083
Status:
Valuation: $10,272.00
Contractor Company:
Contractor Name: WEST VALLEY BUILDERS INC

ADJOINING PROPERTY FINDINGS

Date:	**7/31/2000**
Permit Type:	
Description:	**No Plan Check INSTALL 200 AMP. CTS (POWER POLE)**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	Commercial
Permit Number:	000412000015372
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	WEST VALLEY BUILDERS INC

Date:	**7/31/2000**
Permit Type:	
Description:	**Plan Check New 40' x 95' Type V-N, one storey restaurant with dirve thru. Building Shell only. Interior partitions and bathrooms under separate TI permit. No C of O to be issued prior to completion of TI work. Handicap Note: Rear doors to be provided with a Path of travel from the nearest non-disabled parking stall. See comments for required plumbing fixtures.**
Permit Description:	**Bldg-New**
Work Class:	
Proposed Use:	Commercial Restaurant
Permit Number:	990102000003792
Status:	
Valuation:	$176,000.00
Contractor Company:	
Contractor Name:	WEST VALLEY BUILDERS INC

ADJOINING PROPERTY FINDINGS

VANOWEN ST

22001 VANOWEN ST

Date:	**7/11/2017**
Permit Type:	
Description:	**Plan Check INSTALL 2 ILLUMINATED WALL SIGNS 33.5"**
Permit Description:	**Sign**
Work Class:	
Proposed Use:	Onsite Signs
Permit Number:	170482000001373
Status:	
Valuation:	$10,000.00
Contractor Company:	
Contractor Name:	FREY - MOSS STRUCTURES INC

Date:	**7/11/2017**
Permit Type:	
Description:	**Plan Check INSTALL 1 NON-ILLUMINATED WALL SIGN 2'8**
Permit Description:	**Sign**
Work Class:	
Proposed Use:	Onsite Signs
Permit Number:	170482000001374
Status:	
Valuation:	$5,000.00
Contractor Company:	
Contractor Name:	FREY - MOSS STRUCTURES INC

ADJOINING PROPERTY FINDINGS

Date:	**7/11/2017**
Permit Type:	
Description:	**Plan Check INSTALL 1 NON-ILLUMINATED WALL SIGN 2'8**
Permit Description:	**Sign**
Work Class:	
Proposed Use:	Onsite Signs
Permit Number:	170482000001375
Status:	
Valuation:	$5,000.00
Contractor Company:	
Contractor Name:	FREY - MOSS STRUCTURES INC

Date:	**12/23/2014**
Permit Type:	
Description:	**No Plan Check Remove and replace car wash equipment a d install new 225A sub-panel. Replace new J-boxs new GFCI**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	Commercial
Permit Number:	140411000035537
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	DIMAGGIO MAINTENANCE INC

ADJOINING PROPERTY FINDINGS

Date:	**10/2/2013**
Permit Type:	
Description:	**Plan Check ONE WALL SIGN FOR "FOOD MART" AND TW O WALL SIGNS FOR "CAR WASH", AND NON-ILLUMINATED VINYL, 2.63' X 8.53'; INSTALL VINYL FASCIA SIGN BAND OF YELLOW AND RED, ALONG THE SOUTH, EAST AND WEST ELEVATIONS. NON- ILLUMINATED.**
Permit Description:	**Sign**
Work Class:	
Proposed Use:	Onsite Signs
Permit Number:	130481000002048
Status:	
Valuation:	$3,500.00
Contractor Company:	
Contractor Name:	FREY - MOSS STRUCTURES INC

Date:	**8/5/2013**
Permit Type:	
Description:	**Plan Check VOLUNTARY IMPROVE THE EXISTING ACCESSIBI LITY REQUIREMENT**
Permit Description:	**Bldg-Alter/Repair**
Work Class:	
Proposed Use:	Commercial Gas Service Station
Permit Number:	130161000011313
Status:	
Valuation:	$10,000.00
Contractor Company:	
Contractor Name:	TITAN CONTRACTORS

ADJOINING PROPERTY FINDINGS

Date:	**2/20/2013**
Permit Type:	
Description:	**No Plan Check CAP EXISTING WASTE WATER DISCHARGE LINE AT TREATMENT COMPOUND.**
Permit Description:	**Plumbing**
Work Class:	
Proposed Use:	Commercial
Permit Number:	130421000003629
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	PERRY WAYNE INC

Date:	**12/13/2004**
Permit Type:	
Description:	**No Plan Check INSTALLATION OF REMEDIATION SYSTEM. INVESTIGATION FEE, (2) UTIL EQUIP NOT OVER 3hp, (4) NON-DWELL BRANCH CIRCUITS & (2) EXTRA TRIPS.**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	Commercial
Permit Number:	040411000030964
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	PERRY WAYNE

ADJOINING PROPERTY FINDINGS

Date: **12/13/2004**
Permit Type:
Description: **Plan Check 5 psi gas for thermal oxidizer**

Permit Description: **Plumbing**
Work Class:
Proposed Use: Commercial
Permit Number: 040421000035535
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: PERRY WAYNE

Date: **8/9/2004**
Permit Type:
Description: **No Plan Check SUPPLEMENTAL PERMIT ADD 4 BRANCH CIRCUITS**

Permit Description: **Electrical**
Work Class:
Proposed Use: Commercial
Permit Number: 040412000111772
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: PETROLEUM ENGINEERING INC

Date: **5/13/2004**
Permit Type:
Description: **No Plan Check INSTALL ELECTRICAL FOR GAS STATION. UNDERGROUND TANK MONITORING SYSTEM; INSTALL SENSORS AND 2 NEW CIRCUITS.**

Permit Description: **Electrical**
Work Class:
Proposed Use: Commercial
Permit Number: 040412000011772
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: PETROLEUM ENGINEERING INC

ADJOINING PROPERTY FINDINGS

Date:	**1/21/2003**
Permit Type:	
Description:	**No Plan Check INSTALLATION OF LOW VOLTAGE ELECTRICAL SENSORS IN NEW TURBINE SUMPS**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	Commercial
Permit Number:	030411000001355
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	PERRY WAYNE

Date:	**8/4/2000**
Permit Type:	
Description:	**Plan Check Remove/relocate restroom fixtures to comply with handicapped accessibility requirements; remove/replace existing handicap ramp; and, restripe existing handicap parking only for van accessibility.**
Permit Description:	**Bldg-Alter/Repair**
Work Class:	
Proposed Use:	Commercial Gas Service Station
Permit Number:	000162000014700
Status:	
Valuation:	$6,000.00
Contractor Company:	
Contractor Name:	MAE CONSTRUCTION SERVICES

ADJOINING PROPERTY FINDINGS

Date: **8/4/2000**
Permit Type:
Description: **No Plan Check UPGRADE RESTROOM TO HANDICAP.**

Permit Description: **Electrical**
Work Class:
Proposed Use: Commercial
Permit Number: 000412000015921
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: MAE CONSTRUCTION SERVICES

Date: **8/4/2000**
Permit Type:
Description: **No Plan Check UPGRADE RESTROOM TO HANDICAP.**

Permit Description: **Plumbing**
Work Class:
Proposed Use: Commercial
Permit Number: 000422000011992
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: MAE CONSTRUCTION SERVICES

Date: **8/4/2000**
Permit Type:
Description: **No Plan Check UPGRADE RESTROOM TO HANDICAP.**

Permit Description: **HVAC**
Work Class:
Proposed Use: Commercial
Permit Number: 000442000006583
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: MAE CONSTRUCTION SERVICES

ADJOINING PROPERTY FINDINGS

Date:	**7/7/2000**
Permit Type:	
Description:	**Plan Check REMODEL EXTERIOR FACIA OF EXIST GAS STATION.**
Permit Description:	**Bldg-Alter/Repair**
Work Class:	
Proposed Use:	Commercial Gas Service Station
Permit Number:	000162000012637
Status:	
Valuation:	$15,000.00
Contractor Company:	
Contractor Name:	CALCRAFT COMPANY

Date:	**9/23/1997**
Permit Type:	
Description:	**No Plan Check DISCONNECT & RECONNECT EXIST FUEL DISP & TANK TURBINES & MONITORING FOR 1998 UP-GRADES PER TITLE 23. OK'D GEORGE C.**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	Commercial
Permit Number:	970411000015339
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	CURTIS K E CONSTRUCTION COMPANY INC

ADJOINING PROPERTY FINDINGS

22015 VANOWEN ST

Date:	**4/6/2016**
Permit Type:	
Description:	**Plan Check Modify (E) Verizon WTF: Remove (15) ant**
Permit Description:	**Bldg-Alter/Repair**
Work Class:	
Proposed Use:	Commercial Misc. Bldg or Structure
Permit Number:	160161000002713
Status:	
Valuation:	$25,000.00
Contractor Company:	
Contractor Name:	STC NETCOM INC

Date:	**5/27/2014**
Permit Type:	
Description:	**Plan Check ADDITION OF 1 NEW EQUIPMENT GROWTH CABI ET INSIDE EXISTING WIRELESS TELECOM FACILITY ** 2 OF 2 ****
Permit Description:	**Bldg-Alter/Repair**
Work Class:	
Proposed Use:	Commercial Misc. Bldg or Structure
Permit Number:	140163000003553
Status:	
Valuation:	$20,000.00
Contractor Company:	
Contractor Name:	WES - TEC INC

ADJOINING PROPERTY FINDINGS

Date:	**3/26/2014**
Permit Type:	
Description:	**Plan Check REPLACEMENT OF SIX(6) PREVIOUSLY APPROV D PANEL ANTENNAS AND THE INSTALLATION OF ONE (1) FIBER DEMARCATION BOX AND SIX (6) RRU UNITS FROM 43' 0" RAD CENTER TO 40' 0" RAD CENTER AS WELL AS THE RELOCATION OF THE EXISTING MICROWAVE <SEE COMMENTS>**
Permit Description:	**Nonbldg-Alter/Repair**
Work Class:	
Proposed Use:	Commercial Public Utilities
Permit Number:	140261000000058
Status:	
Valuation:	$40,000.00
Contractor Company:	
Contractor Name:	STC NETCOM INC

Date:	**9/30/2013**
Permit Type:	
Description:	**Plan Check REPLACEMENT OF THREE (3) PREVIOUSLY APPR OVED PANEL ANTENNAS ON THE EXISTING MONOPOLE.**
Permit Description:	**Nonbldg-Alter/Repair**
Work Class:	
Proposed Use:	Commercial Public Utilities
Permit Number:	130261000000400
Status:	
Valuation:	$25,000.00
Contractor Company:	
Contractor Name:	TITAN TELECOM INC

ADJOINING PROPERTY FINDINGS

Date:	**8/1/2013**
Permit Type:	
Description:	**No Plan Check DISCONNECT AND RECONNECT POWER TO EXIST ING GENERATOR**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	Commercial
Permit Number:	130412000020473
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	MOTIVE ENERGY TELECOMMUNICATIONS GROUP INC

Date:	**5/28/2013**
Permit Type:	
Description:	**Plan Check BUILD NEW CONCRETE FOUNDATION FOR NEW BA CK UP GENERATOR & NEW DIESEL FUEL TANK; REMOVE EXISTING GENSET & FOUNDATION.**
Permit Description:	**Nonbldg-New**
Work Class:	
Proposed Use:	Commercial Misc. Bldg or Structure
Permit Number:	120201000002719
Status:	
Valuation:	$20,000.00
Contractor Company:	
Contractor Name:	MOTIVE ENERGY TELECOMMUNICATIONS GROUP INC

ADJOINING PROPERTY FINDINGS

Date: **4/1/2013**
Permit Type:
Description: **No Plan Check CELL SITE**

Permit Description: **Electrical**
Work Class:
Proposed Use: Commercial
Permit Number: 130411000008277
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: JITNEY COMPANY INC

Date: **9/13/2012**
Permit Type:
Description: **No Plan Check SUPPLEMENTAL PERMIT TO 12026-10000-00138 TO CHANGE CONTRACTOR FROM ALCATEL-LUCENT TO JITNEY COMPANY INC. (#719304)**

Permit Description: **Bldg-Alter/Repair**
Work Class:
Proposed Use: Commercial Public Utilities
Permit Number: 120261000200138
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: JITNEY COMPANY INC

Date: **7/24/2012**
Permit Type:
Description: **No Plan Check SUPPLEMENTAL TO PERMIT #12026-10000-0013 8 TO CHANGE CONTRACTOR TO JITNEY CO INC (LIC #719304).**

Permit Description: **Nonbldg-Alter/Repair**
Work Class:
Proposed Use: Commercial Public Utilities
Permit Number: 120261000100138
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: JITNEY COMPANY INC

ADJOINING PROPERTY FINDINGS

Date: **4/27/2012**
Permit Type:
Description: **Plan Check MODIFY/UPGRADE TO EXISTING SPRINT WIRELE SS FACILITY MONOPOLE; REMOVE 3 ANTENNAS, INSTALL 3; WTF PER ZA-1995-80-ZV AND ZA -2004-4502(CU).**

Permit Description: **Nonbldg-Alter/Repair**
Work Class:
Proposed Use: Commercial Public Utilities
Permit Number: 120261000000138
Status:
Valuation: $25,000.00
Contractor Company:
Contractor Name: ALCATEL-LUCENT USA INC

Date: **10/13/2009**
Permit Type:
Description: **Plan Check REPLACEMENT OF SIX PANEL ANTENNAS ON (E) MONOPOLE**

Permit Description: **Nonbldg-Alter/Repair**
Work Class:
Proposed Use: Commercial
Permit Number: 090261000000201
Status:
Valuation: $20,000.00
Contractor Company:
Contractor Name: WES - TEC INC

Date: **11/8/2005**
Permit Type:
Description: **No Plan Check CELL SITE.**

Permit Description: **Electrical**
Work Class:
Proposed Use: Commercial
Permit Number: 050412000027462
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: K S OVERLAND CONTRACTING

ADJOINING PROPERTY FINDINGS

Date:	**10/28/2005**
Permit Type:	
Description:	**Plan Check PROPOSED 10' EXTENSION OF EXISTING (CELLULAR ANTENNA) MONOPOLE W/ GPS ANTENNA ABOVE, 56' TOTAL ANTENNA/MONOPOLE HEIGHT (APPROVED PER ZA-2004-4502(CU)).**
Permit Description:	**Bldg-Alter/Repair**
Work Class:	
Proposed Use:	Commercial Misc. Bldg or Structure
Permit Number:	050162000005840
Status:	
Valuation:	$45,000.00
Contractor Company:	
Contractor Name:	OVERLAND CONTRACTING

Date:	**10/28/2005**
Permit Type:	
Description:	**Plan Check PROPOSED FOUNDATIONS FOR SUPPORT OF BATTERY CABINET & RADIO EQUIP. (15'9"X9')**
Permit Description:	**Nonbldg-New**
Work Class:	
Proposed Use:	Commercial Misc. Bldg or Structure
Permit Number:	050202000001068
Status:	
Valuation:	$5,000.00
Contractor Company:	
Contractor Name:	OVERLAND CONTRACTING

ADJOINING PROPERTY FINDINGS

Date:	**10/25/2005**
Permit Type:	
Description:	**Plan Check USE OF LAND PERMIT TO EXTEND THE EXISTING WIRELESS TELECOM MONOPOLE BY 7'-0" IN HEIGHT FOR TOTAL HEIGHT OF 52'-0" PER CASE NO. ZA 2004-4502 (CU)**
Permit Description:	**Nonbldg-Alter/Repair**
Work Class:	
Proposed Use:	Commercial
Permit Number:	050261000000070
Status:	
Valuation:	$7,000.00
Contractor Company:	
Contractor Name:	JITNEY COMPANY

Date:	**3/30/2004**
Permit Type:	
Description:	**No Plan Check Installation of a generator and an automatic transfer switch at an existing cell site.**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	Commercial
Permit Number:	040419000007378
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	BAY CITY ELECTRIC WORKS INC

ADJOINING PROPERTY FINDINGS

Date:	**3/26/2002**
Permit Type:	
Description:	**No Plan Check REPLACE 200 AMP MANUAL TRANSFER SWITCH WITH 200 AUTOMATIC SWITCH INSTALL 40KW GEN.**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	Commercial
Permit Number:	020411000006195
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	BAY CITY ELECTRIC WORKS INC

22017 VANOWEN ST

Date:	**9/9/2015**
Permit Type:	
Description:	**No Plan Check**
Permit Description:	**Plumbing**
Work Class:	
Proposed Use:	Commercial
Permit Number:	150421000109873
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	RED TECH SERVICE COMMERCIAL REFRIGERATION

ADJOINING PROPERTY FINDINGS

Date: **5/18/2015**
Permit Type:
Description: **No Plan Check**

Permit Description: **Electrical**
Work Class:
Proposed Use: Commercial
Permit Number: 150411000015141
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: RED TECH SERVICE COMMERCIAL REFRIGERATION

Date: **5/18/2015**
Permit Type:
Description: **No Plan Check**

Permit Description: **Plumbing**
Work Class:
Proposed Use: Commercial
Permit Number: 150421000009873
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: RED TECH SERVICE COMMERCIAL REFRIGERATION

Date: **2/23/2015**
Permit Type:
Description: **Plan Check CONVERT FROM DRY CLEANING TO SIT DOWN D NUT SHOP/ COFFEE SHOP. SEE COMMENTS. HOURS OF OPERATION SHALL BE FROM 7 AM - 11 PM**

Permit Description: **Bldg-Alter/Repair**
Work Class:
Proposed Use: Commercial Manufacturing Restaurant
Permit Number: 150161000002117
Status:
Valuation: $203,375.00
Contractor Company:
Contractor Name: RED TECH SERVICE COMMERCIAL REFRIGERATION

ADJOINING PROPERTY FINDINGS

22019 VANOWEN ST

C.O. Issued Date:	**5/1/2008**
Date:	**4/14/2008**
Permit Type:	
Description:	**Plan Check CHANGE OF USE FROM DENTAL OFFICE TO BEAUTY SALON...NO STRUCTURAL CHANGES...NO CHANGE IN FLOOR PLAN...**
Permit Description:	**Bldg-Alter/Repair**
Work Class:	
Proposed Use:	Commercial Retail Retail
Permit Number:	080162000005582
Status:	
Valuation:	$501.00
Contractor Company:	
Contractor Name:	

Date:	**6/9/2003**
Permit Type:	
Description:	**No Plan Check general inspaction**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	Commercial
Permit Number:	030419000012491
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	ARC CONSTRUCTION CO

GLOSSARY

General Building Department concepts

- **ICC:** The International Code Council. The governing body for the building/development codes used by all jurisdictions who've adopted the ICC guidelines. MOST of the US has done this. Canada, Mexico, and other countries use ICC codes books and guides as well. There are a few states who have added guidelines to the ICC codes to better fit their needs. For example, California has added seismic retrofit requirements for most commercial structures.
- **Building Department (Permitting Authority, Building Codes, Inspections Department, Building and Inspections):** This is the department in a jurisdiction where an owner or contractor goes to obtain permits and inspections for building, tearing down, remodeling, adding to, re-roofing, moving or otherwise making changes to any structure, Residential or Commercial.
- **Jurisdiction:** This is the geographic area representing the properties over which a Permitting Authority has responsibility.
- **GC:** General Contractor. Usually the primary contractor hired for any Residential or Commercial construction work.
- **Sub:** Subordinate contracting companies or subcontractors. Usually a "trades" contractor working for the GC. These contractors generally have an area of expertise in which they are licensed like Plumbing, Electrical, Heating and Air systems, Gas Systems, Pools etc. (called "trades").
- **Journeymen:** Sub contractors who have their own personal licenses in one or more trades and work for different contracting companies, wherever they are needed or there is work.
- **HVAC (Mechanical, Heating & Air companies):** HVAC = Heating, Ventilation, and Air Conditioning.
- **ELEC (Electrical, TempPole, TPole, TPower, Temporary Power, Panel, AMP Change, Power Release):** Electrical permits can be pulled for many reasons. The most common reason is to increase the AMPs of power in an electrical power panel. This requires a permit in almost every jurisdiction. Other commons reason for Electrical permits is to insert a temporary power pole at a new construction site. Construction requires electricity, and in a new development, power has yet to be run to the lot. The temporary power pole is usually the very first permit pulled for new development. The power is released to the home owner when construction is complete and this sometimes takes the form of a Power Release permit or inspection.
- **"Pull" a permit:** To obtain and pay for a building permit.
- **CBO:** Chief Building Official
- **Planning Department:** The department in the development process where the building /structural plans are reviewed for their completeness and compliance with building codes
- **Zoning Department:** The department in the development process where the site plans are reviewed for their compliance with the regulations associated with the zoning district in which they are situated.
- **Zoning District:** A pre-determined geographic boundary within a jurisdiction where certain types of structures are permitted / prohibited. Examples are Residential structure, Commercial/Retail structures, Industrial/Manufacturing structures etc. Each zoning district has regulations associated with it like the sizes of the lots, the density of the structures on the lots, the number of parking spaces required for certain types of structures on the lots etc.
- **PIN (TMS, GIS ID, Parcel#):** Property Identification Number and Tax Map System number.
- **State Card (Business license):** A license card issued to a contractor to conduct business.
- **Building Inspector (Inspector):** The inspector is a building department employee that inspects building construction for compliance to codes.
- **C.O.:** Certificate of Occupancy. This is the end of the construction process and designates that the owners now have permission to occupy a structure after its building is complete. Sometimes also referred to as a Certificate of Compliance.

GLOSSARY

Permit Content Definitions

- Permit Number: The alphanumerical designation assigned to a permit for tracking within the building department system. Sometimes the permit number gives clues to its role, e.g. a "PL" prefix may designate a plumbing permit.
- Description: A field on the permit form that allows the building department to give a brief description of the work being done. More often than not, this is the most important field for EP's to find clues to the prior use(s) of the property.
- Permit Type: Generally a brief designation of the type of job being done. For example BLDG-RES, BLDG-COM, ELEC, MECH etc.

Sample Building Permit Data

Date: Nov 09, 2000
Permit Type: Bldg -
New Permit Number: 101000000405
Status: Valuation: $1,000,000.00
Contractor Company: OWNER-BUILDER
Contractor Name:

Description: New one store retail (SAV-ON) with drive-thru pharmacy. Certificate of Occupancy.

APPENDIX C

EDR® HISTORICAL MAPS

CANOGA PARK HIGH SCHOOL

6850 Topanga Canyon Blvd

Canoga Park, CA 91303

Inquiry Number: 5499207.11

November 30, 2018

The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

11/30/18

Site Name:

CANOGA PARK HIGH SCHOC
6850 Topanga Canyon Blvd
Canoga Park, CA 91303
EDR Inquiry # 5499207.11

Client Name:

Eco & Associates, Inc.
18231 Irvine Blvd Suite 204
Tustin, CA 92780
Contact: Filmon Tesfaslasie

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Search Results:

Year	*Scale*	*Details*	*Source*
2016	1"=500'	Flight Year: 2016	USDA/NAIP
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2005	1"=500'	Flight Year: 2005	USDA/NAIP
2002	1"=500'	Flight Date: June 10, 2002	USDA
1994	1"=500'	Acquisition Date: June 01, 1994	USGS/DOQQ
1989	1"=500'	Flight Date: August 22, 1989	USDA
1983	1"=500'	Flight Date: November 19, 1983	EDR Proprietary Brewster Pacific
1979	1"=500'	Flight Date: February 05, 1979	EDR Proprietary Brewster Pacific
1970	1"=500'	Flight Date: February 02, 1970	EDR Proprietary Brewster Pacific
1967	1"=500'	Flight Date: August 13, 1967	USGS
1959	1"=500'	Flight Date: August 21, 1959	USDA
1952	1"=500'	Flight Date: March 11, 1952	USDA
1947	1"=500'	Flight Date: August 15, 1947	USGS
1938	1"=500'	Flight Date: July 24, 1938	USDA
1928	1"=500'	Flight Date: January 01, 1928	FAIR

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EDR


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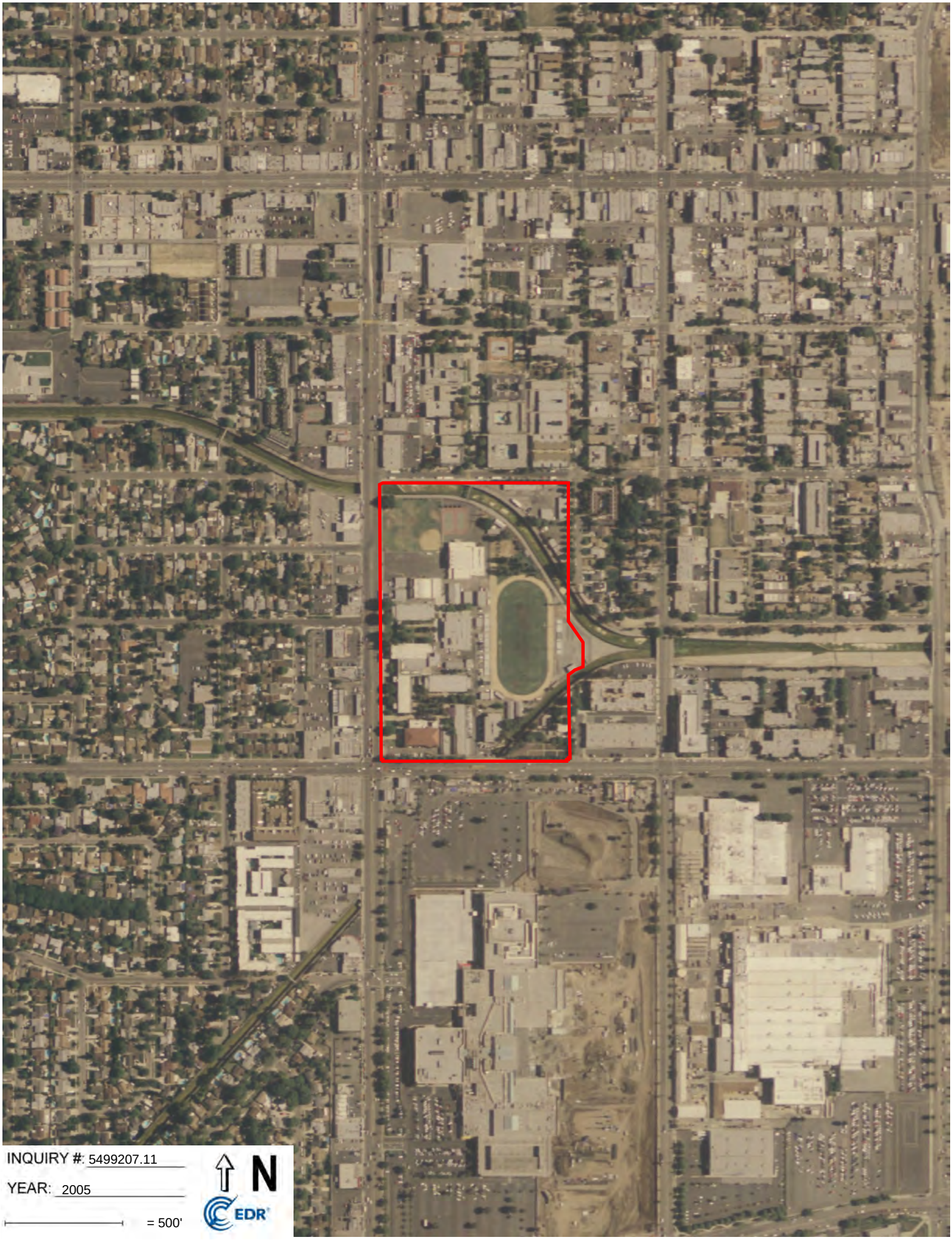
EDR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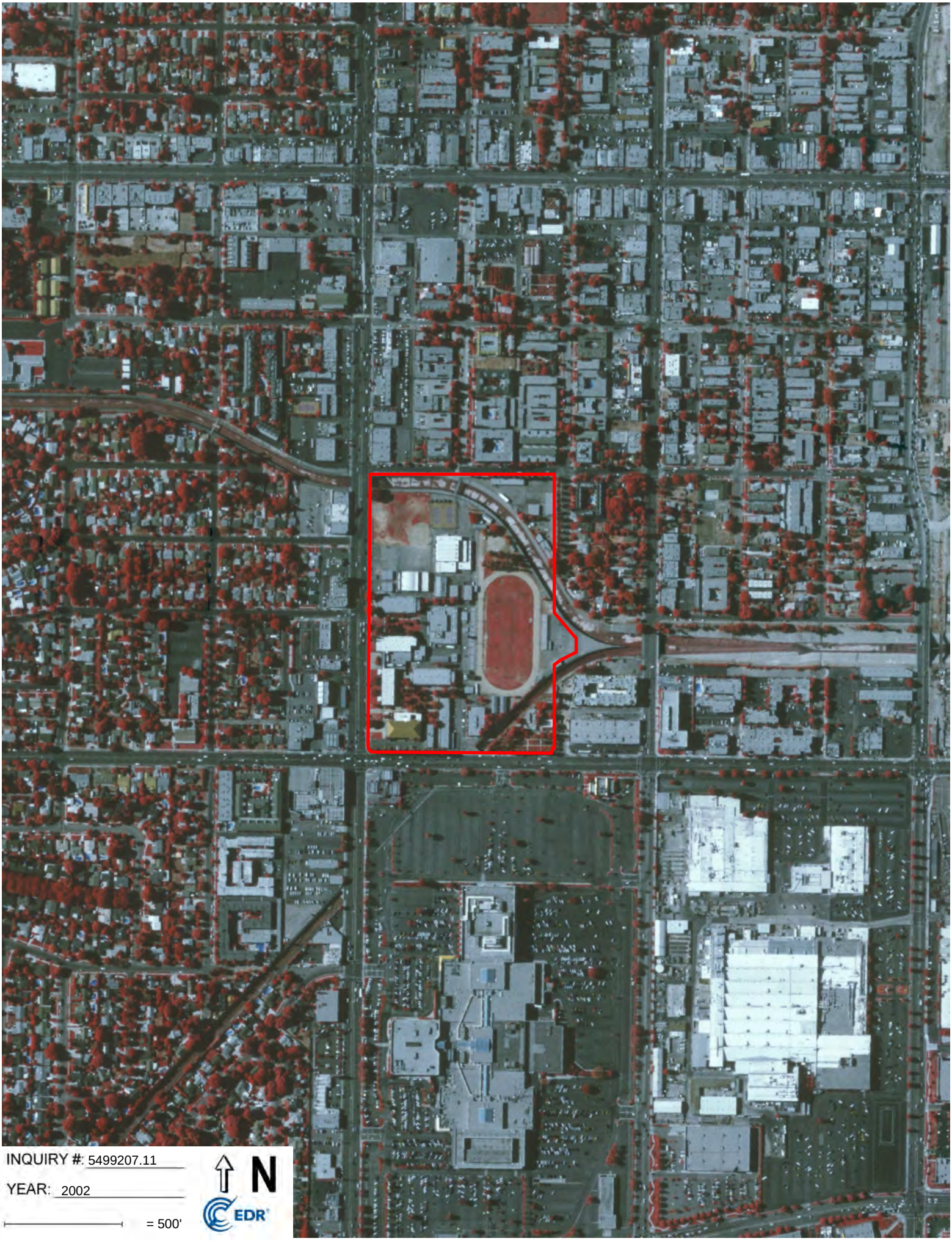
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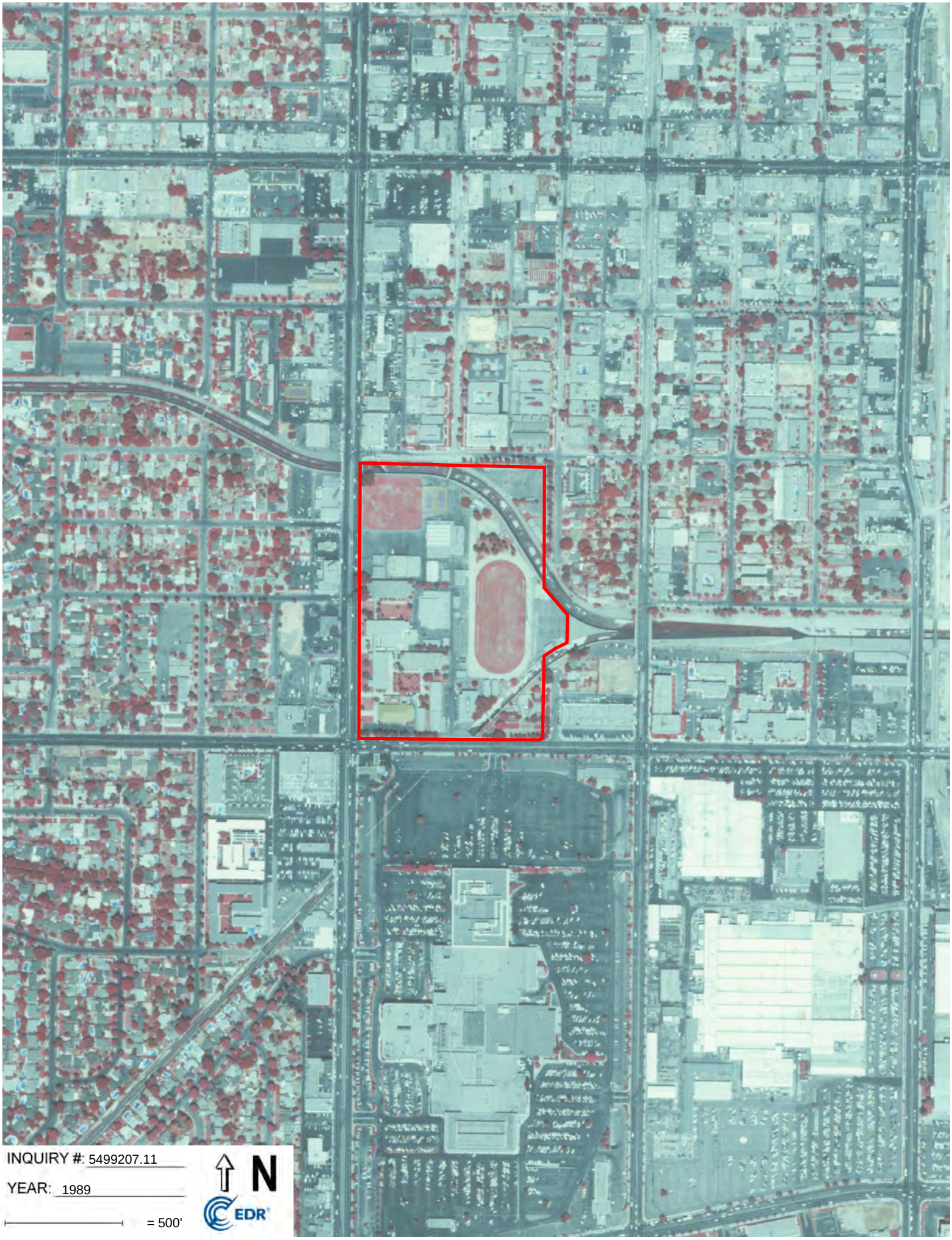
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EDR


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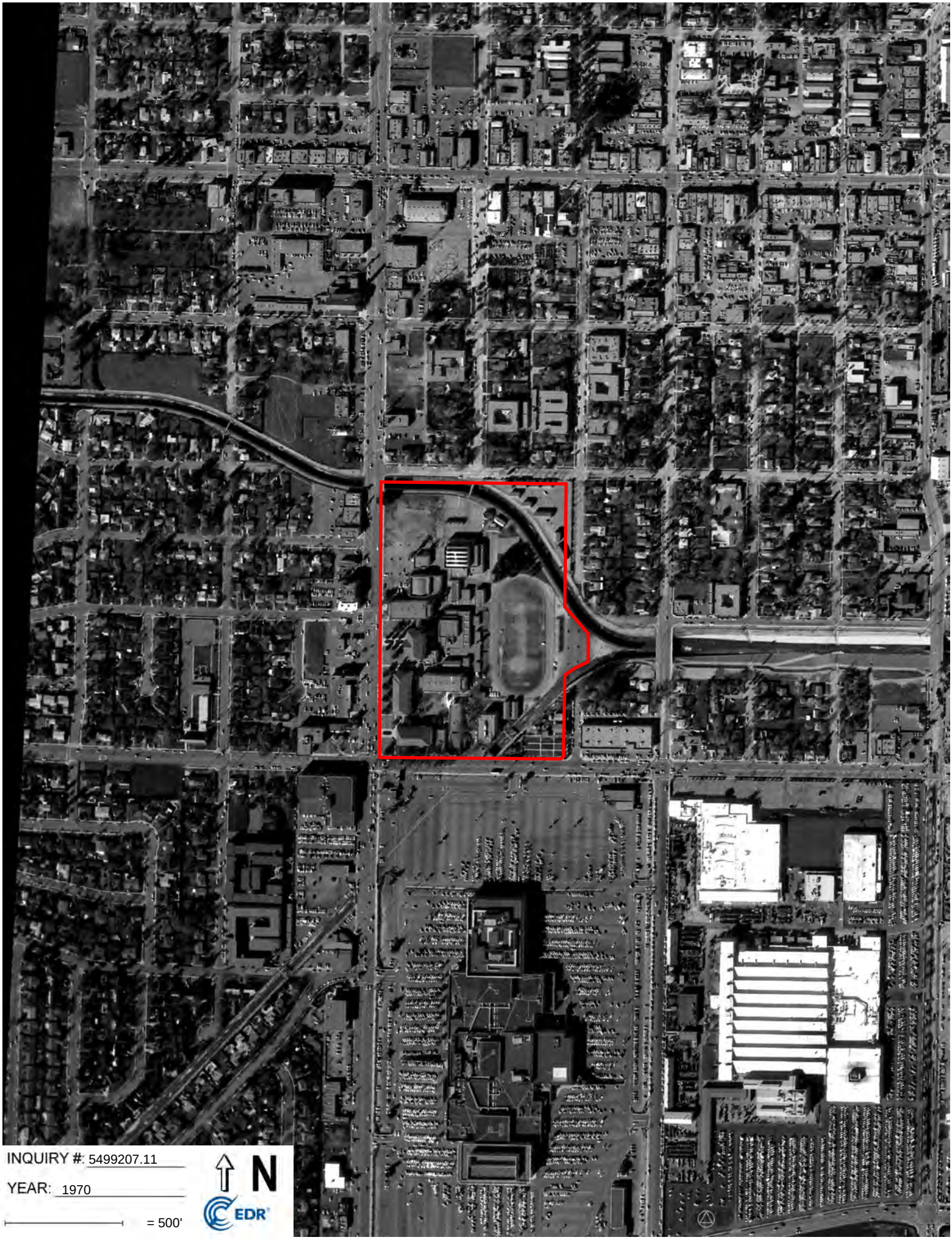
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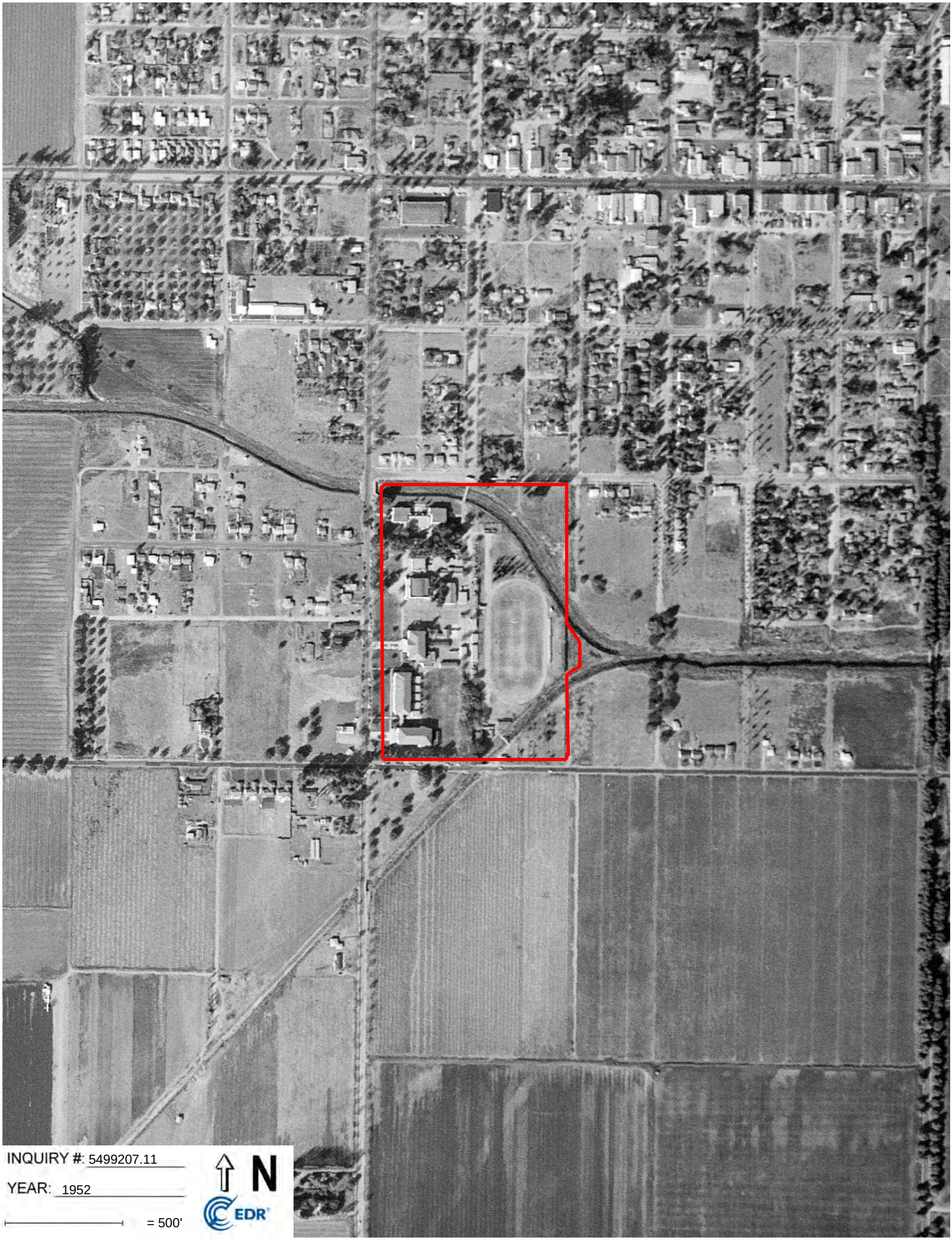
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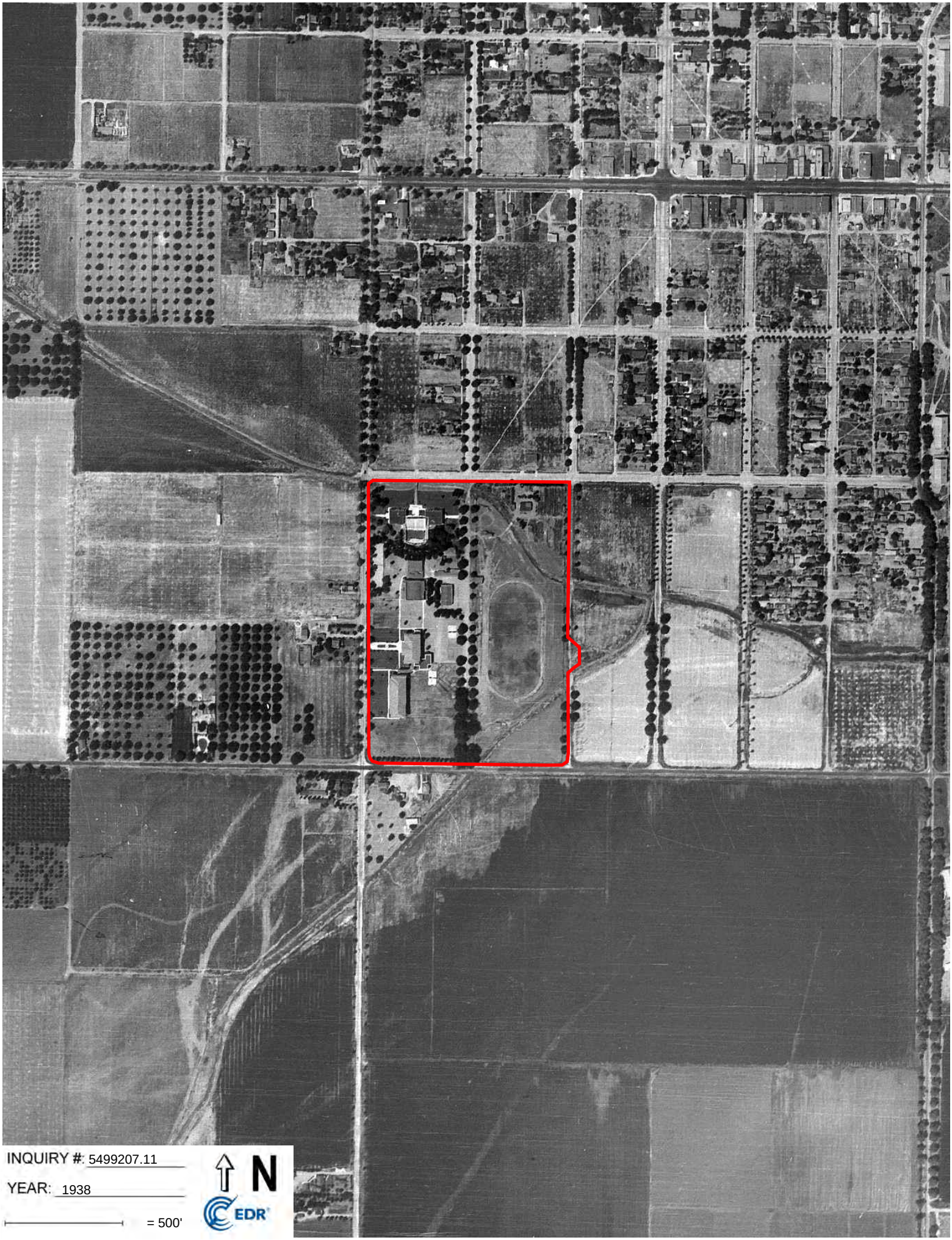
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INQUIRY #: 5499207.11

YEAR: 1928

= 500'

N

EDR

CANOGA PARK HIGH SCHOOL
6850 Topanga Canyon Blvd
Canoga Park, CA 91303

Inquiry Number: 5499207.4
November 30, 2018

EDR Historical Topo Map Report

with QuadMatch™

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topo Map Report

11/30/18

Site Name:	Client Name:
CANOGA PARK HIGH SCHOC	Eco & Associates, Inc.
6850 Topanga Canyon Blvd	18231 Irvine Blvd Suite 204
Canoga Park, CA 91303	Tustin, CA 92780
EDR Inquiry # 5499207.4	Contact: Filmon Tesfaslasie

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Search Results:

P.O.# Eco-18-1231

Project: CANOGA PARK HIGH SCHOC

Coordinates:

Latitude:	34.195576 34° 11' 44" North
Longitude:	-118.604331 -118° 36' 16" West
UTM Zone:	Zone 11 North
UTM X Meters:	352176.74
UTM Y Meters:	3785004.73
Elevation:	796.00' above sea level

Maps Provided:

2012	1925
1967	1903
1952	
1947	
1944	
1932, 1933	
1929	
1927, 1928	

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Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2012 Source Sheets



Canoga Park
2012
7.5-minute, 24000

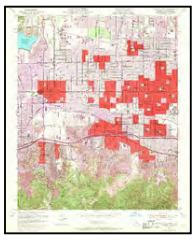


Calabasas
2012
7.5-minute, 24000

1967 Source Sheets

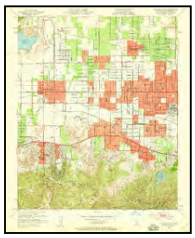


Calabasas
1967
7.5-minute, 24000
Aerial Photo Revised 1967



Canoga Park
1967
7.5-minute, 24000
Aerial Photo Revised 1967

1952 Source Sheets



Canoga Park
1952
7.5-minute, 24000
Aerial Photo Revised 1947



Calabasas
1952
7.5-minute, 24000
Aerial Photo Revised 1947

1947 Source Sheets



CALABASAS
1947
15-minute, 50000

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1944 Source Sheets



Calabasas
1944
15-minute, 62500
Aerial Photo Revised 1938

1932, 1933 Source Sheets



Dry Canyon
1932
7.5-minute, 24000



Zelzah
1932
7.5-minute, 24000



Chatsworth
1933
7.5-minute, 24000

1929 Source Sheets



Dry Canyon
1929
7.5-minute, 24000



Zelzah
1929
7.5-minute, 24000



Chatsworth
1929
7.5-minute, 24000

1927, 1928 Source Sheets



Chatsworth
1927
7.5-minute, 24000



Zelzah
1928
7.5-minute, 24000



Dry Canyon
1928
7.5-minute, 24000



Reseda
1928
7.5-minute, 24000

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1925 Source Sheets



Dry Canyon
1925
7.5-minute, 24000



Chatsworth
1925
7.5-minute, 24000

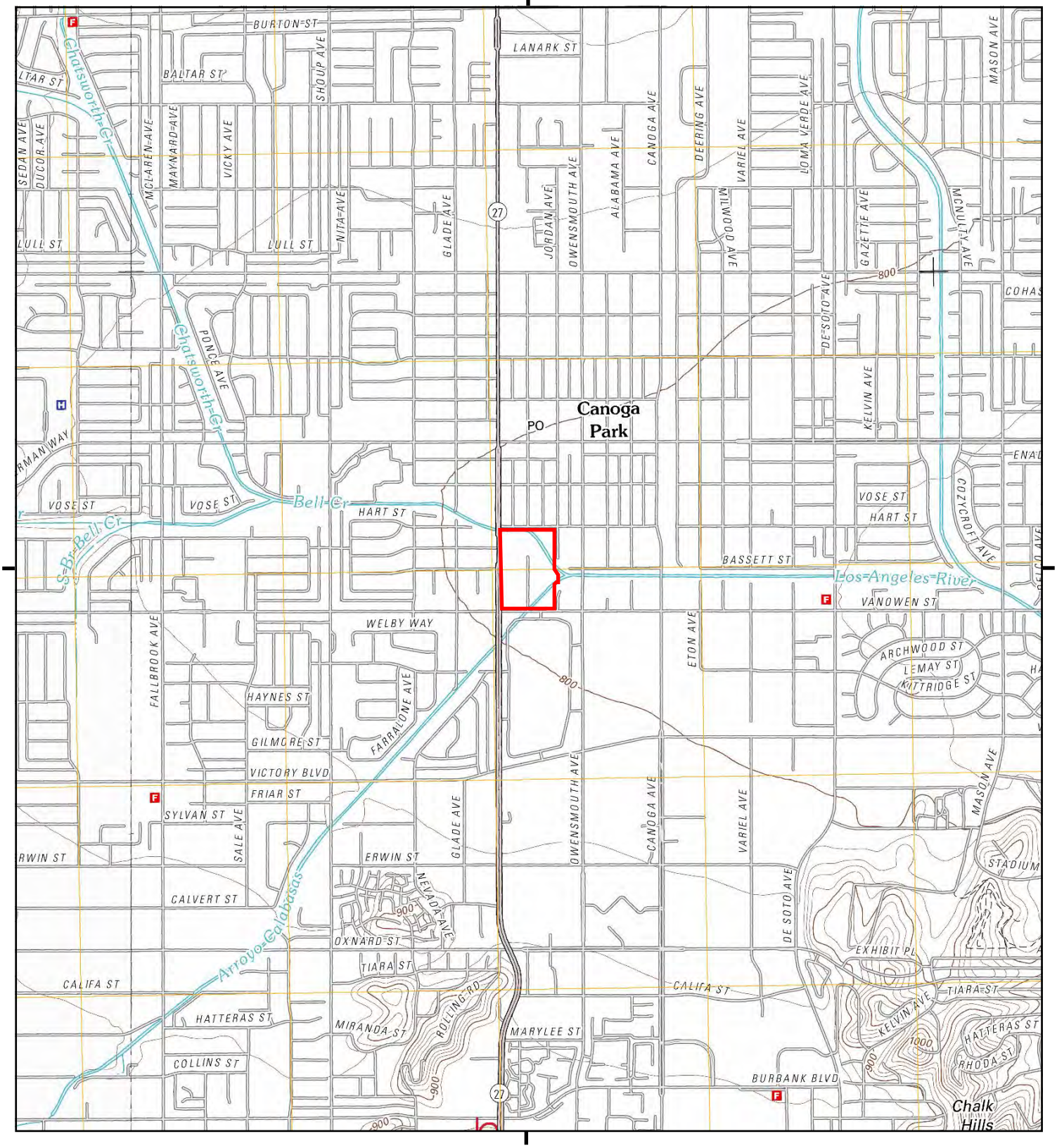
1903 Source Sheets



Calabasas
1903
15-minute, 62500

Historical Topo Map

2012



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

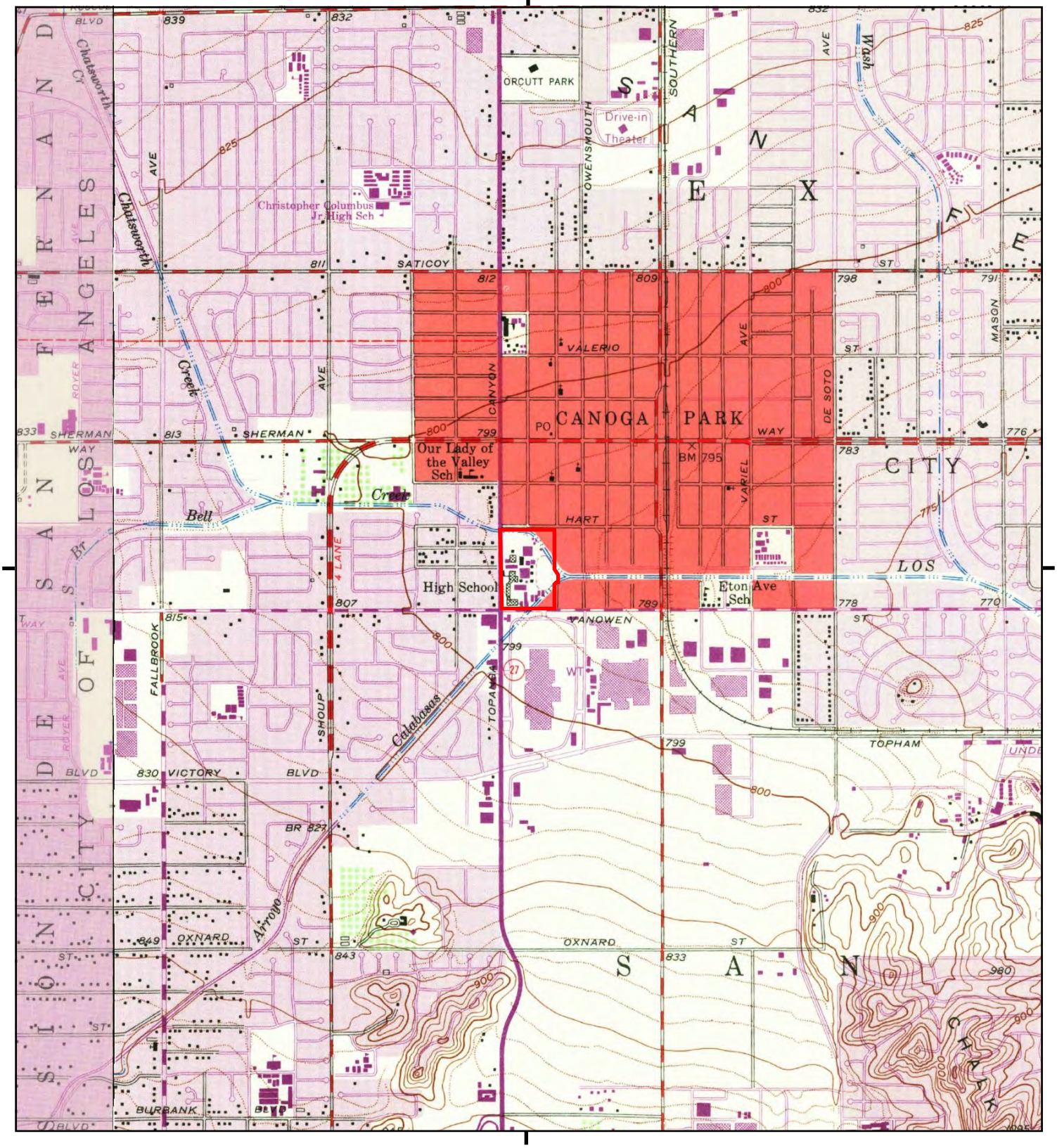
TP, Canoga Park, 2012, 7.5-minute
W, Calabasas, 2012, 7.5-minute

SITE NAME: CANOGA PARK HIGH SCHOOL
ADDRESS: 6850 Topanga Canyon Blvd
Canoga Park, CA 91303
CLIENT: Eco & Associates, Inc.

N

Historical Topo Map

1967



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NW N NE
W E
SW S SE

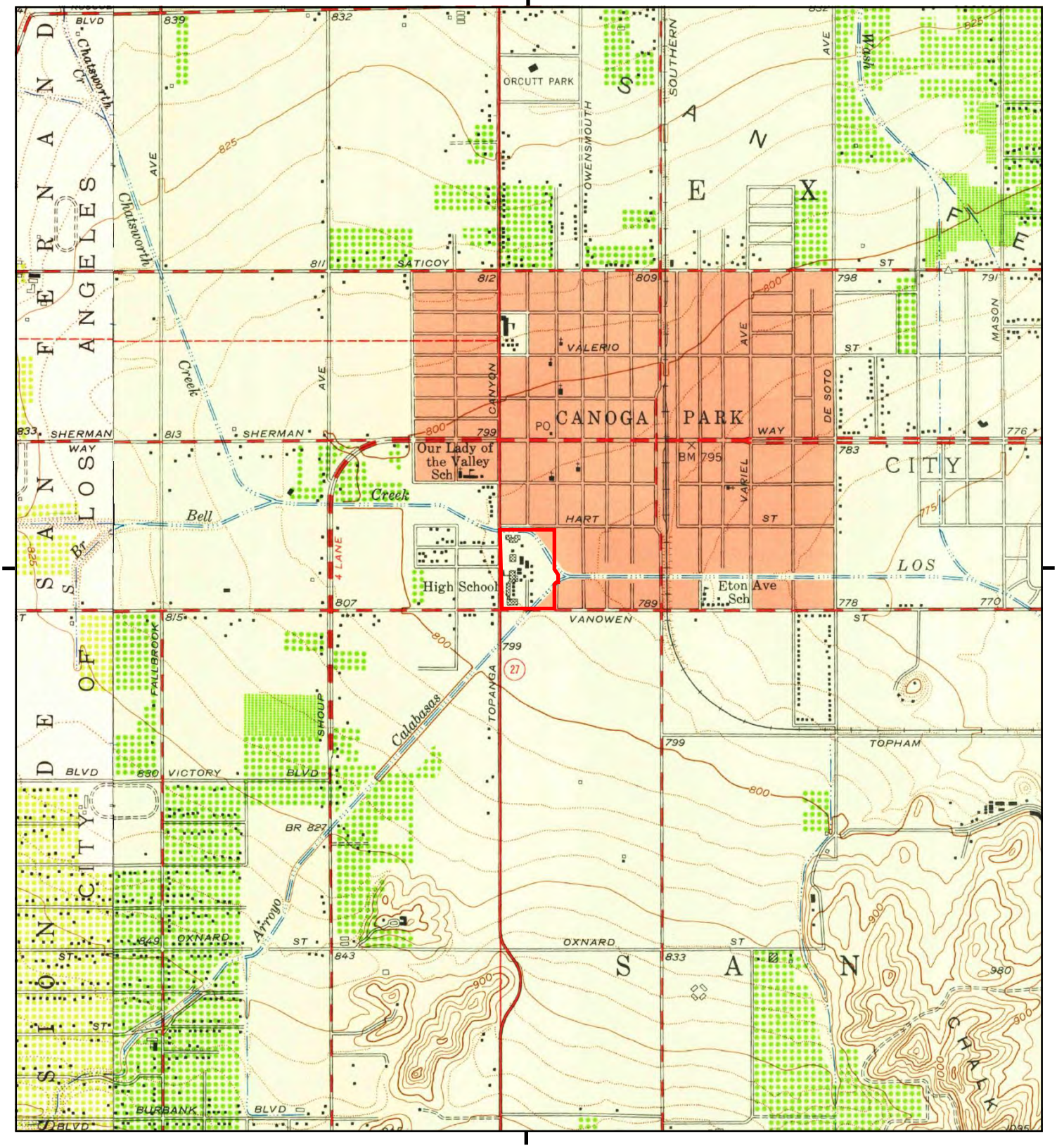
TP, Canoga Park, 1967, 7.5-minute
W, Calabasas, 1967, 7.5-minute

SITE NAME: CANOGA PARK HIGH SCHOOL
ADDRESS: 6850 Topanga Canyon Blvd
Canoga Park, CA 91303
CLIENT: Eco & Associates, Inc.

N

Historical Topo Map

1952



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W E
SW S SE

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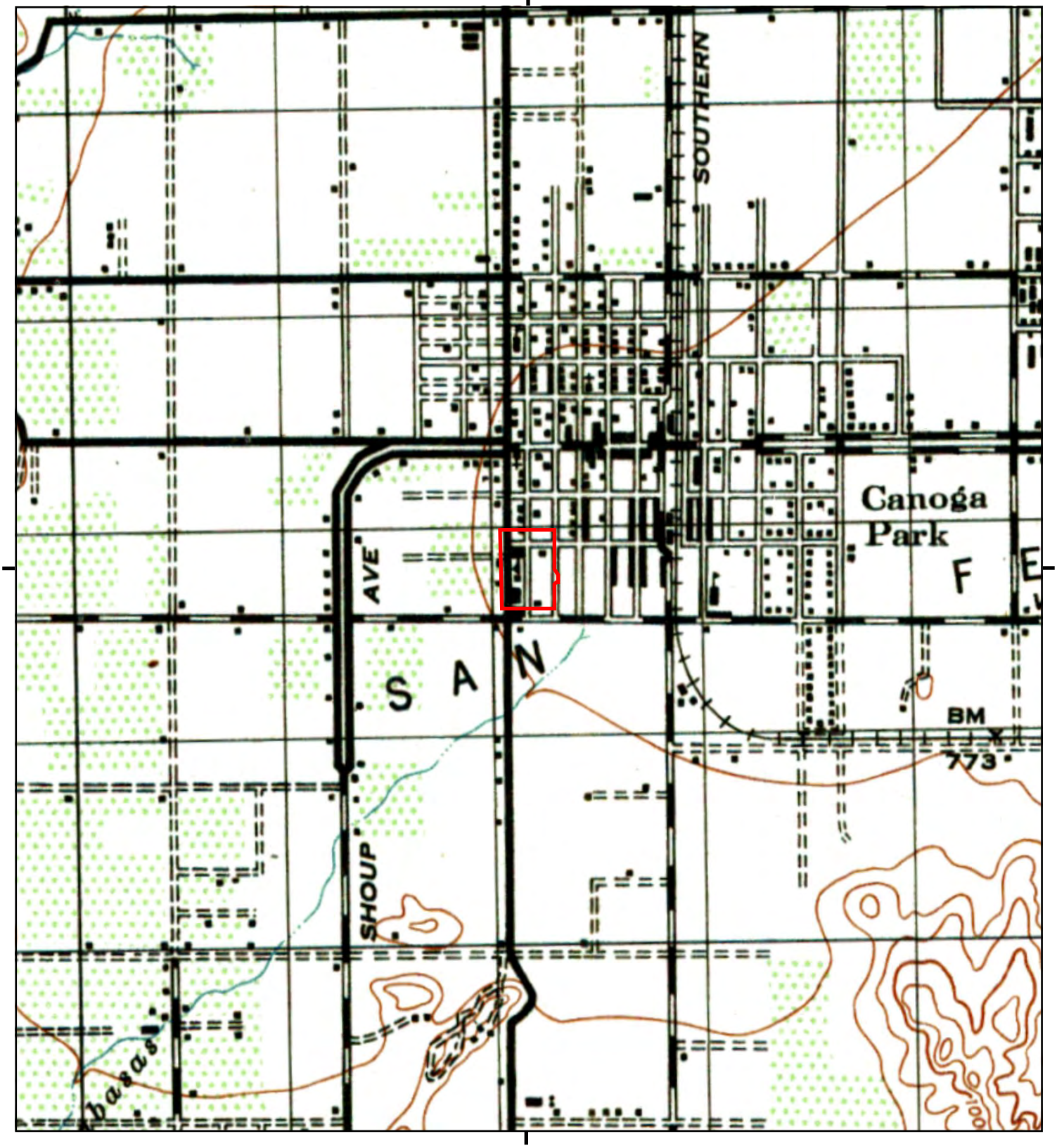
W, Calabasas, 1952, 7.5-minute

SITE NAME: CANOGA PARK HIGH SCHOOL
ADDRESS: 6850 Topanga Canyon Blvd
Canoga Park, CA 91303
CLIENT: Eco & Associates, Inc.

N

Historical Topo Map

1947



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NW N NE
W E
SW S SE

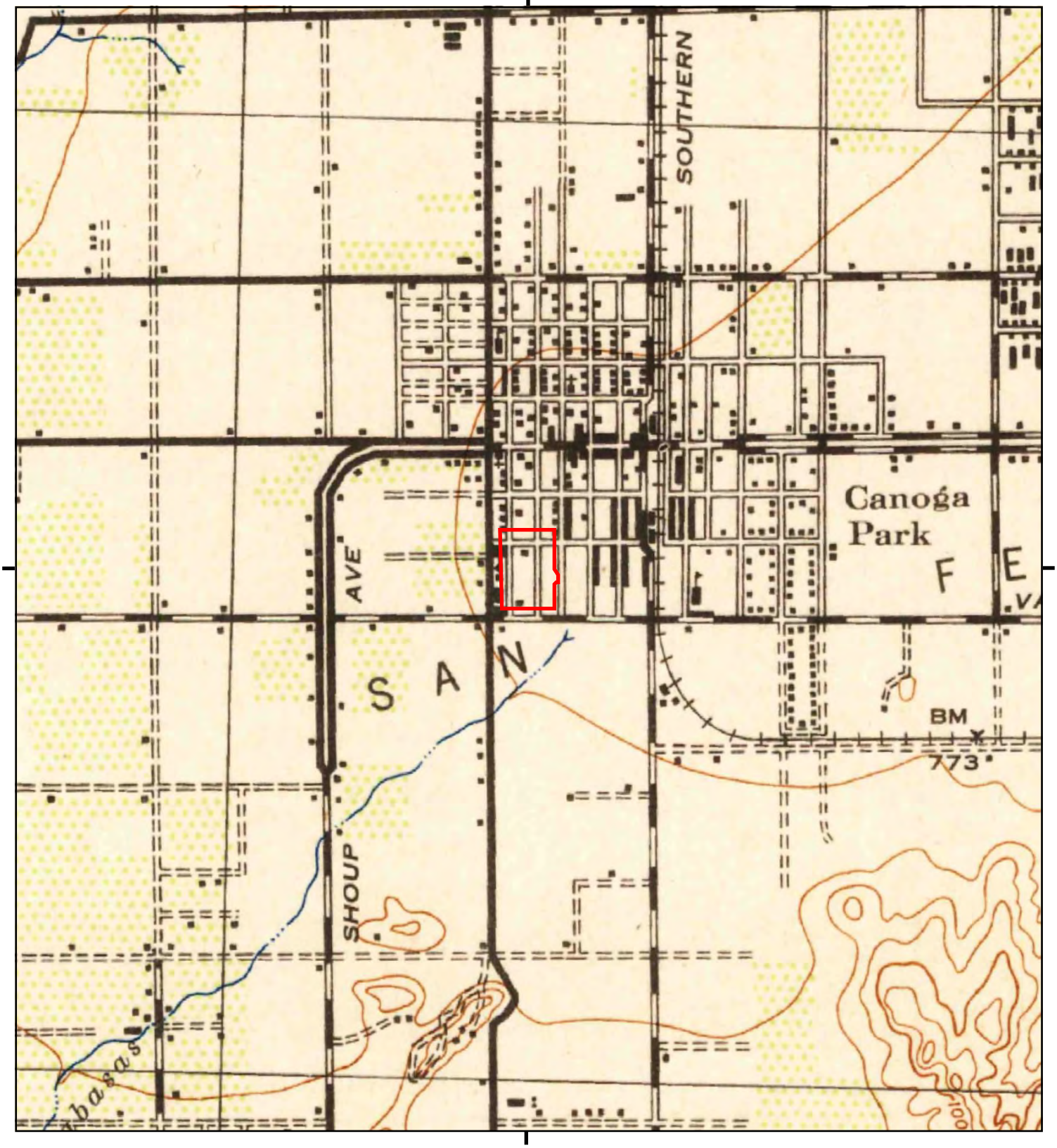
TP, CALABASAS, 1947, 15-minute

SITE NAME: CANOGA PARK HIGH SCHOOL
ADDRESS: 6850 Topanga Canyon Blvd
Canoga Park, CA 91303
CLIENT: Eco & Associates, Inc.

N

Historical Topo Map

1944



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NW N NE
W E
SW S SE

TP, Calabasas, 1944, 15-minute

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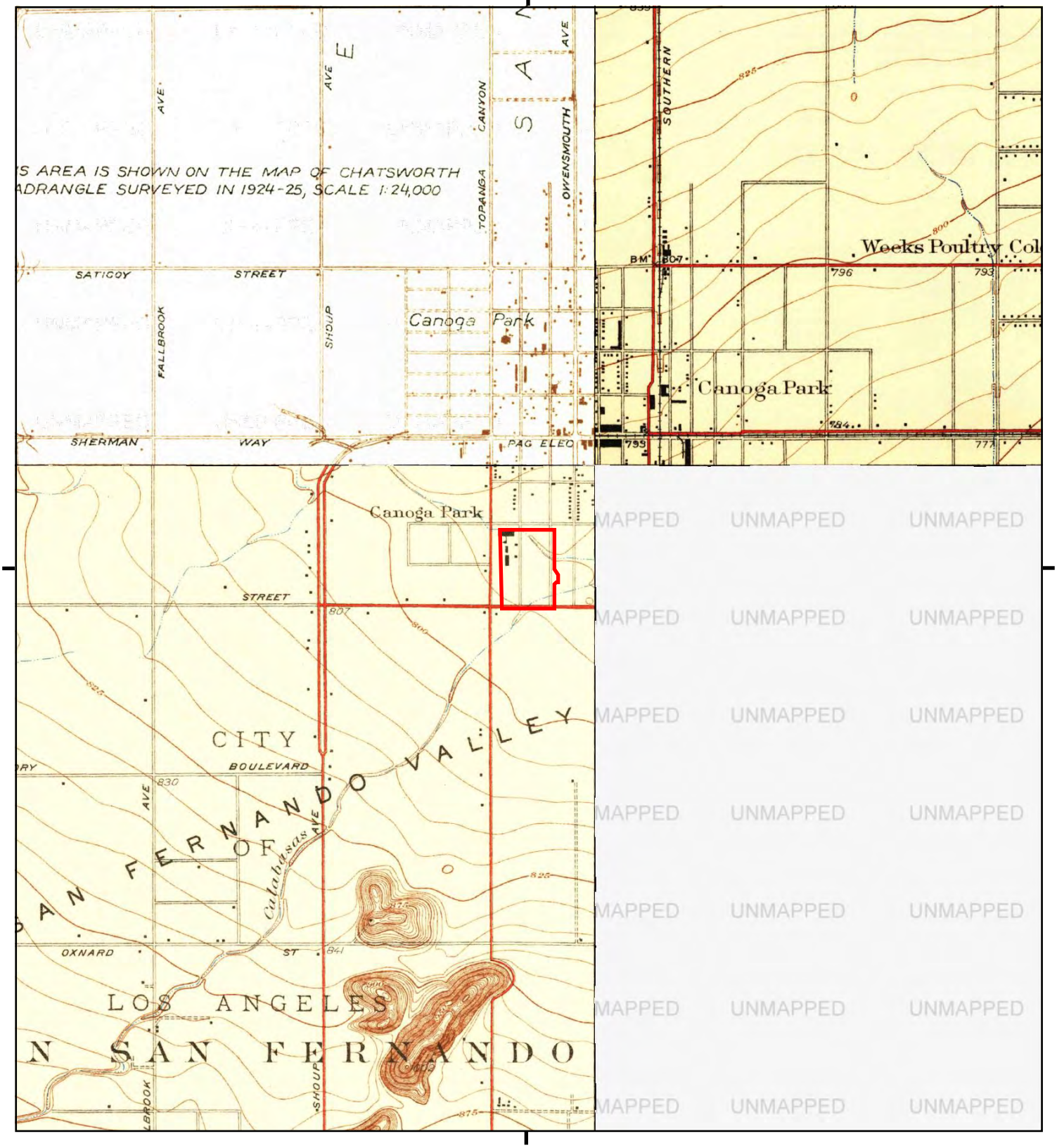
ADDRESS: 6850 Topanga Canyon Blvd
Canoga Park, CA 91303
CLIENT: Eco & Associates, Inc.

N



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NW N NE
W E
SW S SE

TP, Dry Canyon, 1932, 7.5-minute
NE, Zelzah, 1932, 7.5-minute
NW, Chatsworth, 1933, 7.5-minute

SITE NAME: CANOGA PARK HIGH SCHOOL
ADDRESS: 6850 Topanga Canyon Blvd
Canoga Park, CA 91303
CLIENT: Eco & Associates, Inc.

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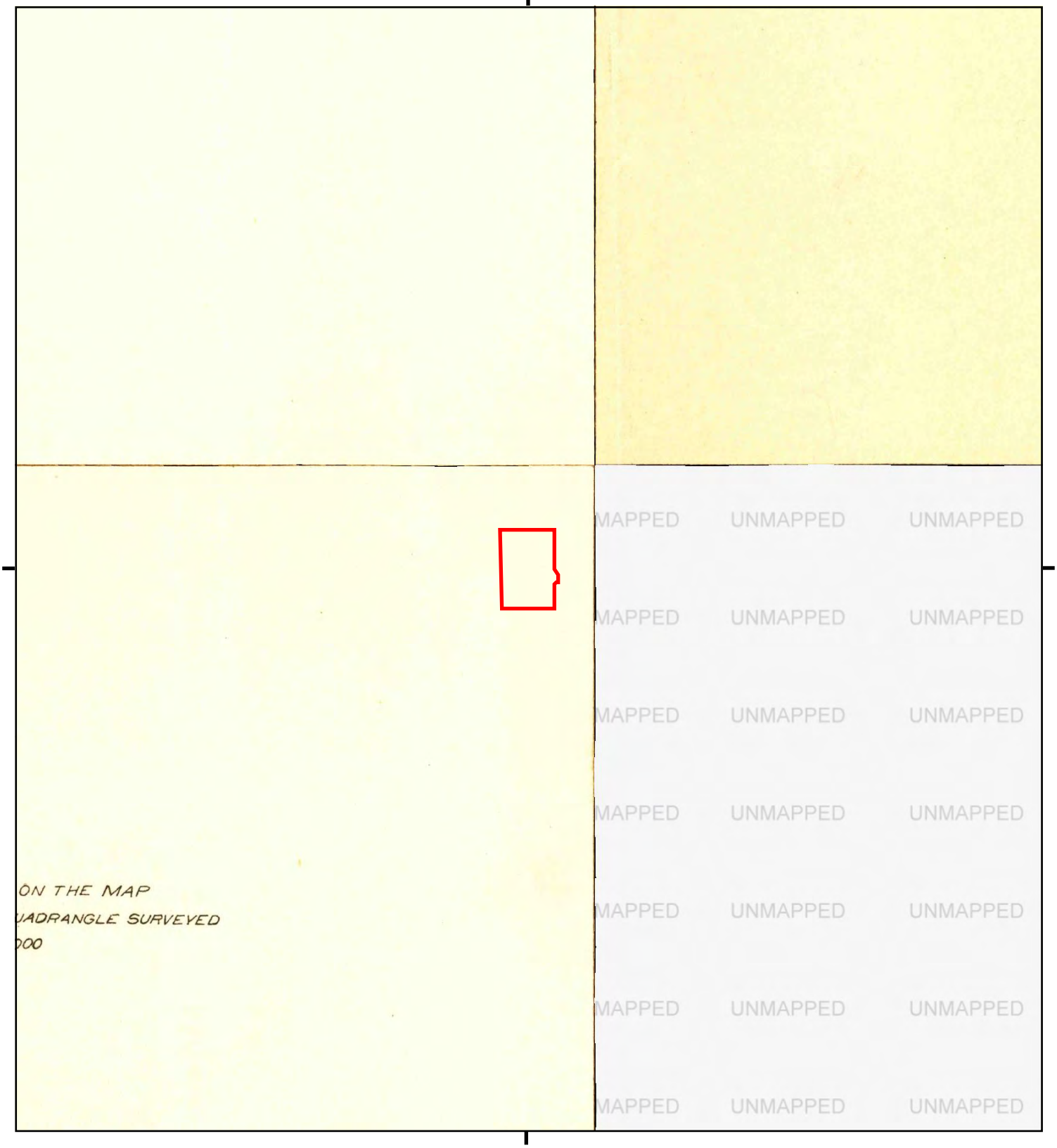

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W E
SW S SE

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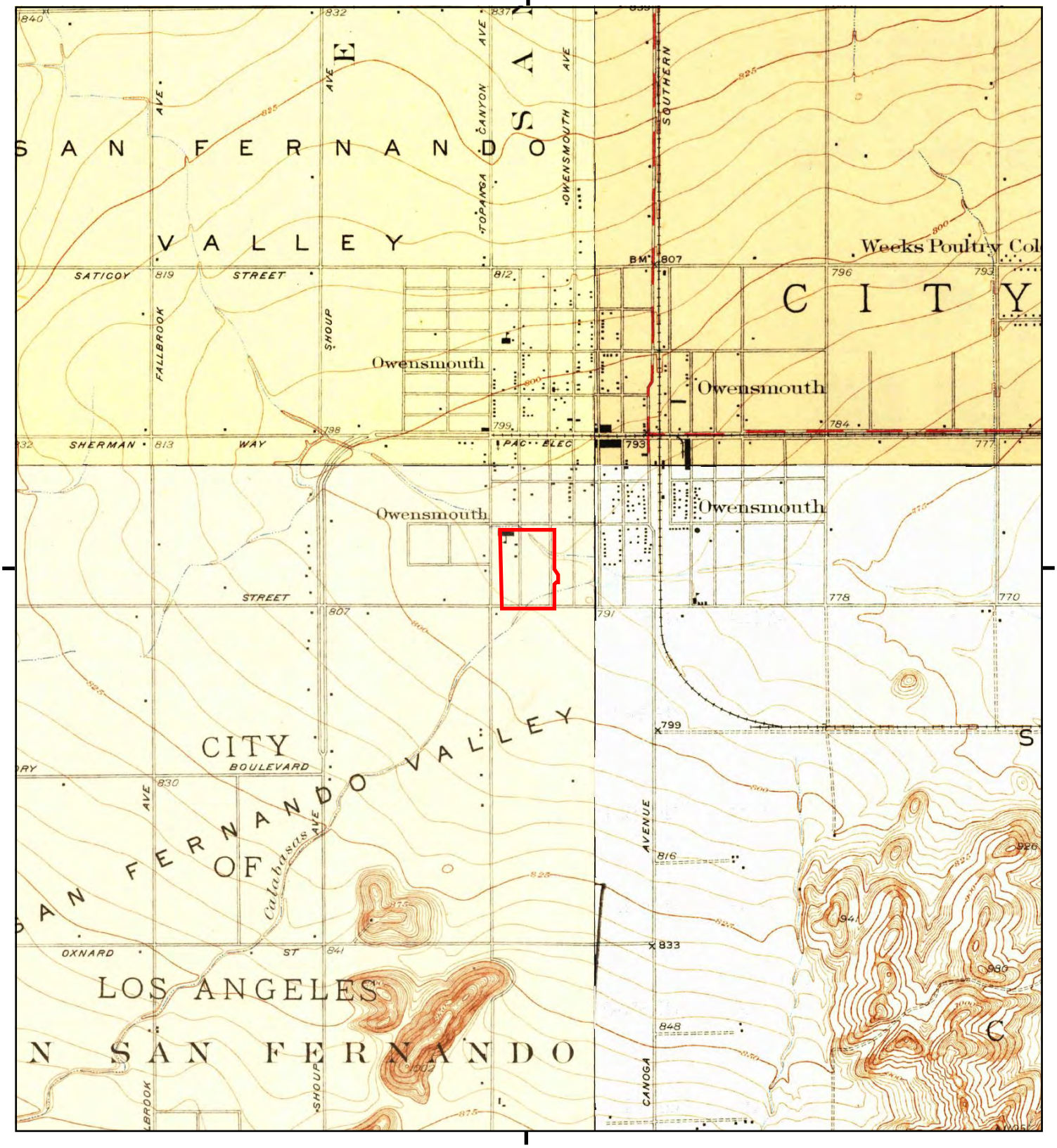
NE, Zelzah, 1929, 7.5-minute
NW, Chatsworth, 1929, 7.5-minute

SITE NAME: CANOGA PARK HIGH SCHOOL
ADDRESS: 6850 Topanga Canyon Blvd
Canoga Park, CA 91303
CLIENT: Eco & Associates, Inc.

N



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W E
SW S SE

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NE, Zelzah, 1928, 7.5-minute
SE, Reseda, 1928, 7.5-minute
NW, Chatsworth, 1927, 7.5-minute

SITE NAME: CANOGA PARK HIGH SCHOOL
ADDRESS: 6850 Topanga Canyon Blvd
Canoga Park, CA 91303
CLIENT: Eco & Associates, Inc.

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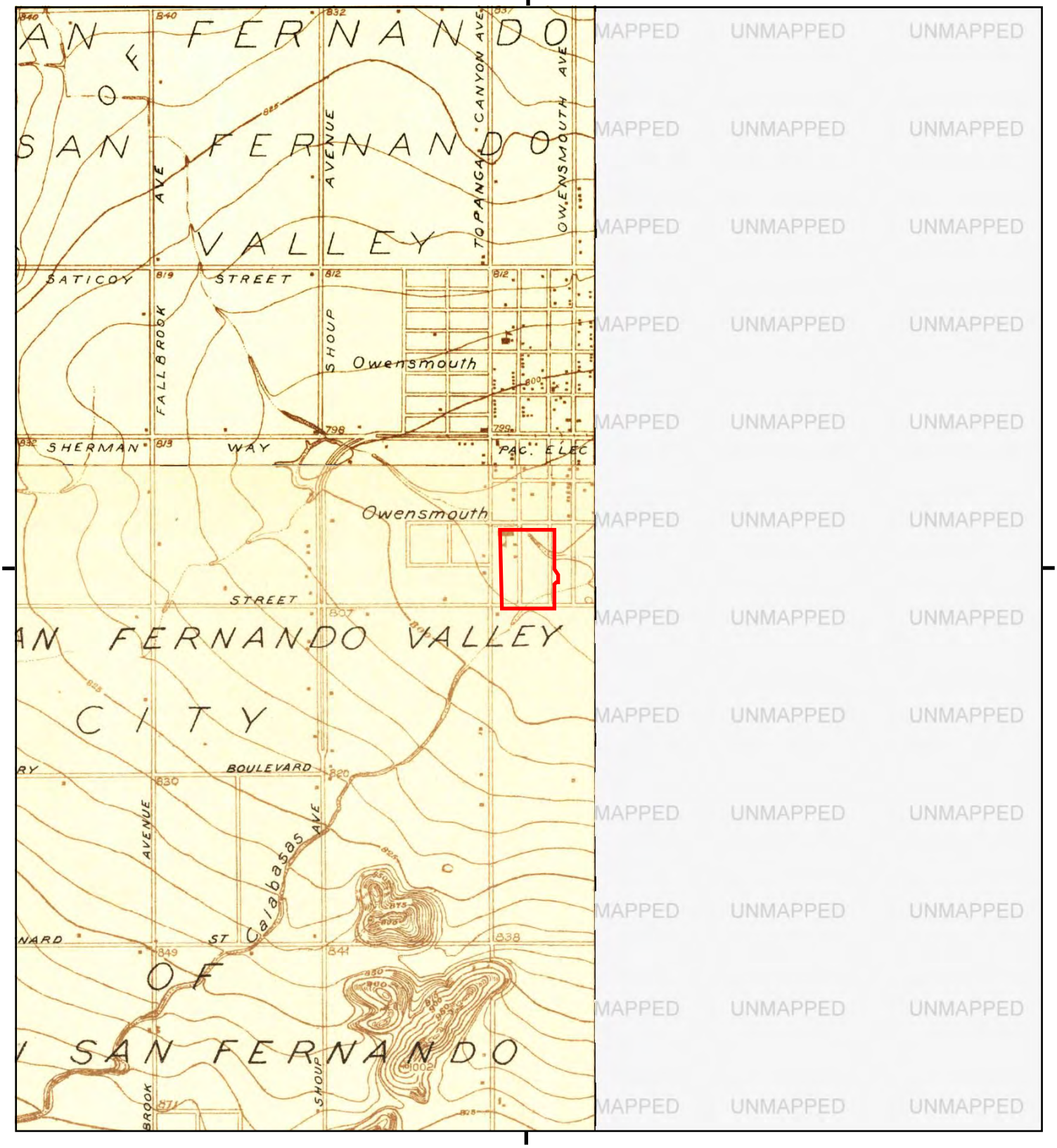

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W E
SW S SE

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NW, Chatsworth, 1925, 7.5-minute

SITE NAME: CANOGA PARK HIGH SCHOOL
ADDRESS: 6850 Topanga Canyon Blvd
Canoga Park, CA 91303
CLIENT: Eco & Associates, Inc.

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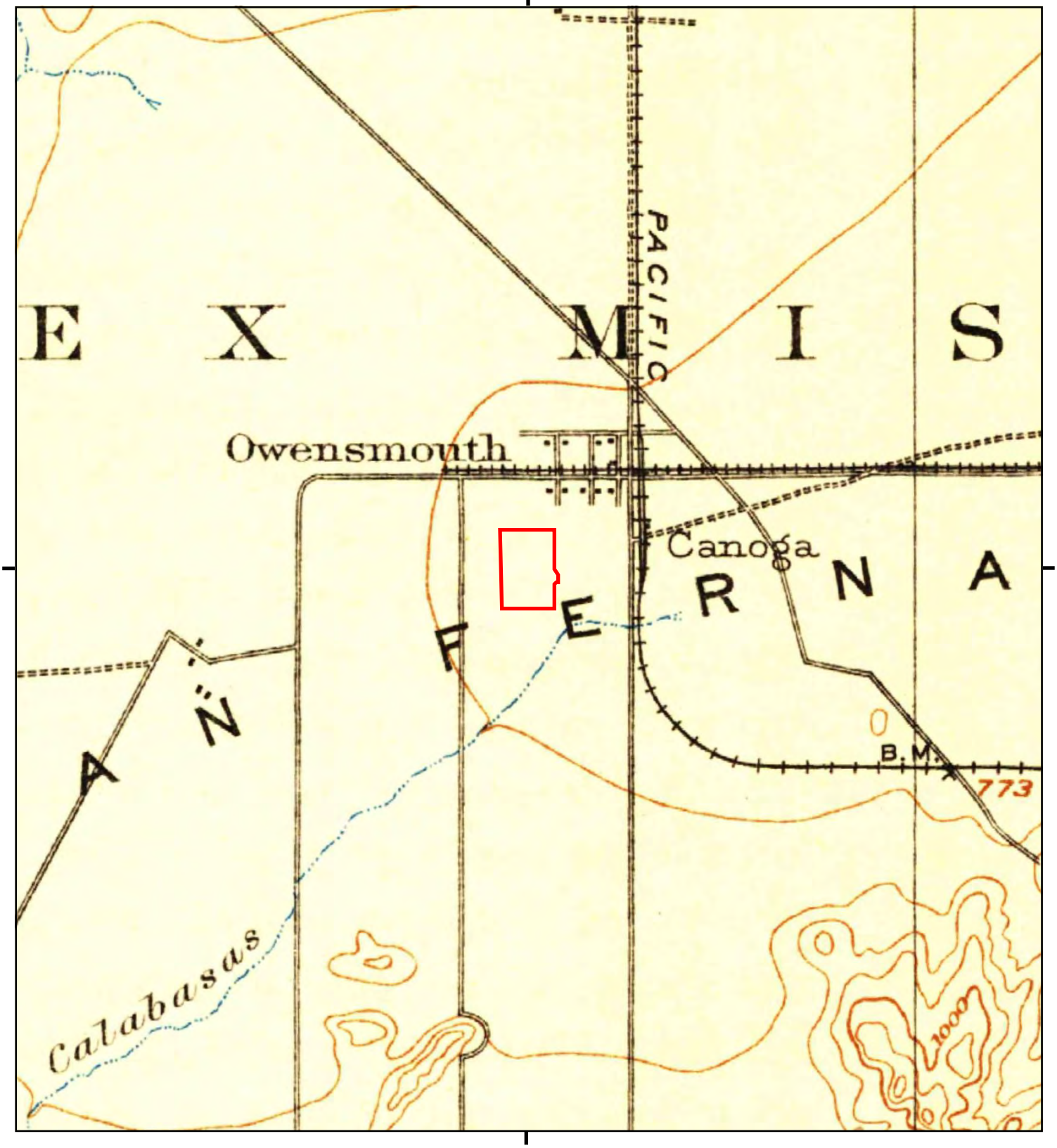

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NW N NE
W E
SW S SE

TP, Calabasas, 1903, 15-minute

SITE NAME: CANOGA PARK HIGH SCHOOL
ADDRESS: 6850 Topanga Canyon Blvd
Canoga Park, CA 91303
CLIENT: Eco & Associates, Inc.

N

CANOGA PARK HIGH SCHOOL

6850 Topanga Canyon Blvd

Canoga Park, CA 91303

Inquiry Number: 5499207.3

November 30, 2018

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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11/30/18

Site Name:

CANOGA PARK HIGH SCHOC
6850 Topanga Canyon Blvd
Canoga Park, CA 91303
EDR Inquiry # 5499207.3

Client Name:

Eco & Associates, Inc.
18231 Irvine Blvd Suite 204
Tustin, CA 92780
Contact: Filmon Tesfaslasie

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Certified Sanborn Results:

Certification # 29F7-4EF2-B802

PO # Eco-18-1231

Project CANOGA PARK HIGH SCHOOL

Maps Provided:

1932
1927
1919

Sanborn® Library search results

Certification #: 29F7-4EF2-B802

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- ☑ Library of Congress
- ☑ University Publications of America
- ☑ EDR Private Collection

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Sanborn Sheet Key

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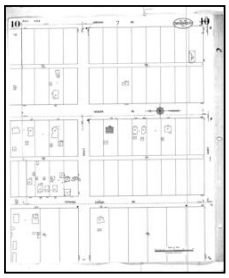
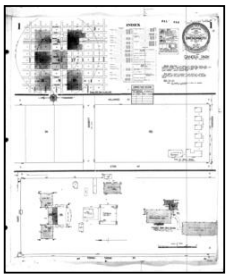
1932 Source Sheets

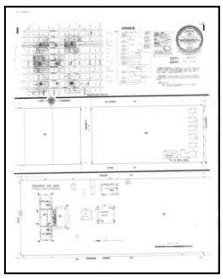


Volume 1, Sheet 10
1932



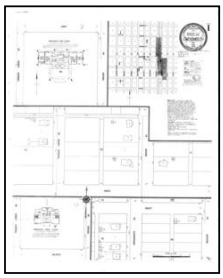
Volume 1, Sheet Keymap/Sheet1
1932

1927 Source Sheets

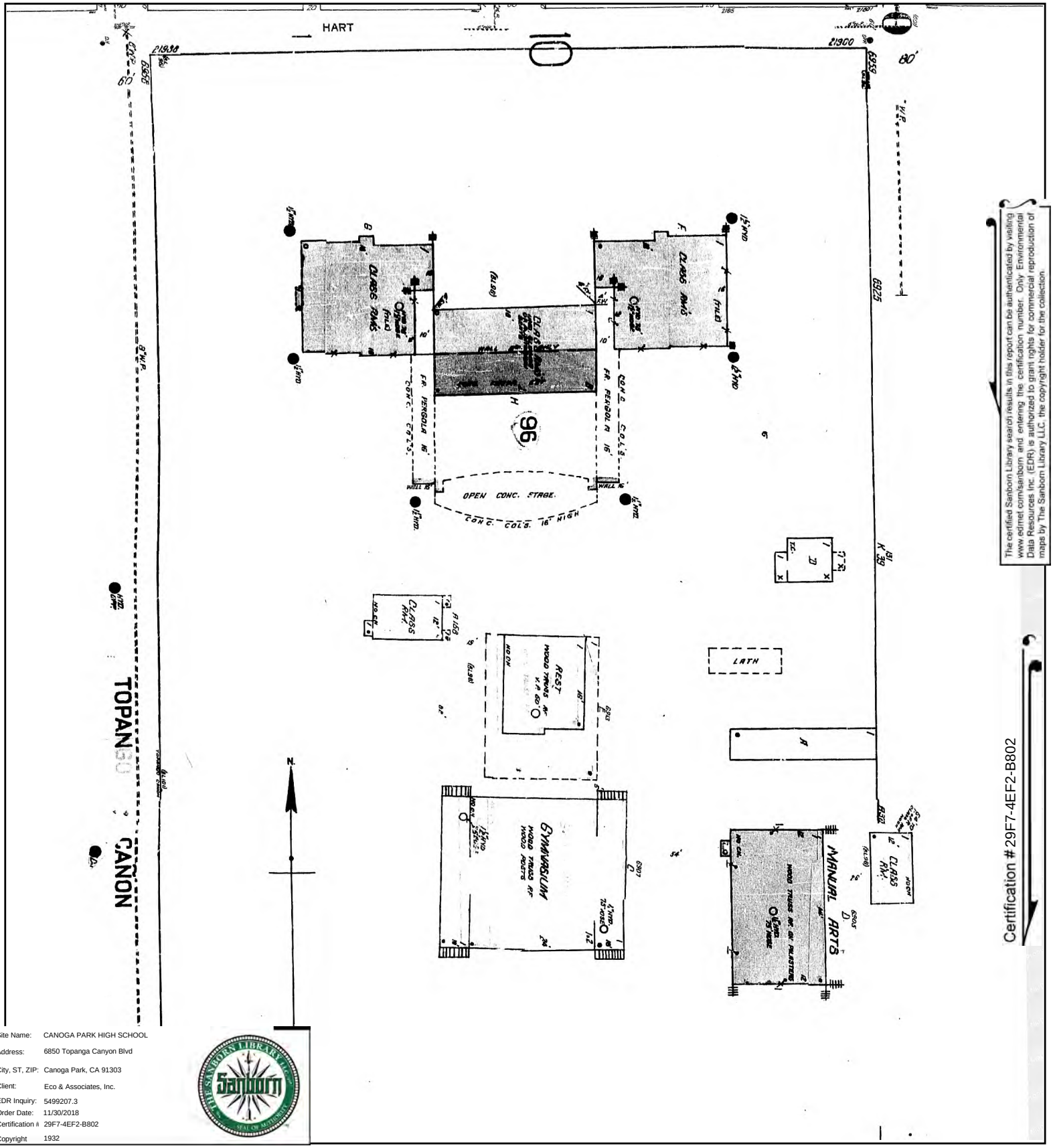


Volume 1, Sheet Keymap/Sheet1
1927

1919 Source Sheets



Volume 1, Sheet Keymap/Sheet1
1919



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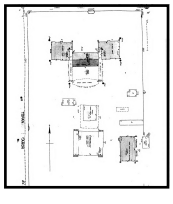
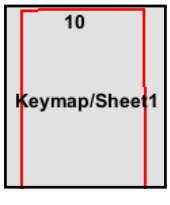
Certification # 29F7-4EF2-B802

Site Name: CANOGA PARK HIGH SCHOOL
Address: 6850 Topanga Canyon Blvd
City, ST, ZIP: Canoga Park, CA 91303
Client: Eco & Associates, Inc.
EDR Inquiry: 5499207.3
Order Date: 11/30/2018
Certification #: 29F7-4EF2-B802
Copyright: 1932

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

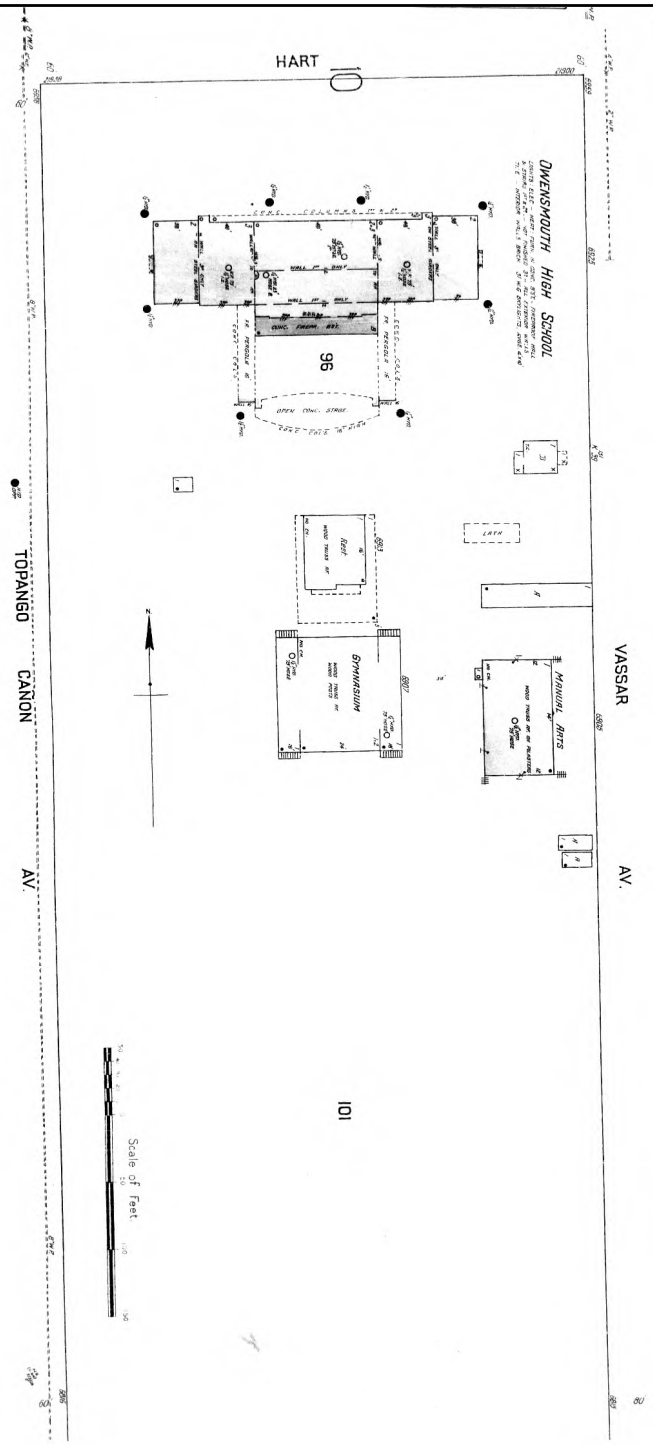
0 Feet 150 300 600





Volume 1, Sheet Keymap/Sheet1
Volume 1, Sheet 10

N



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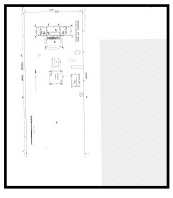
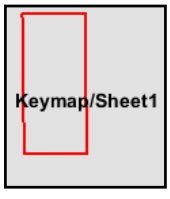
Certification #29F7-4EF2-B802

Site Name:	CANOGA PARK HIGH SCHOOL
Address:	6850 Topanga Canyon Blvd
City, ST, ZIP:	Canoga Park, CA 91303
Client:	Eco & Associates, Inc.
EDR Inquiry:	5499207.3
Order Date:	11/30/2018
Certification #	29F7-4EF2-B802
Copyright	1927

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.





Volume 1, Sheet Keymap/Sheet1

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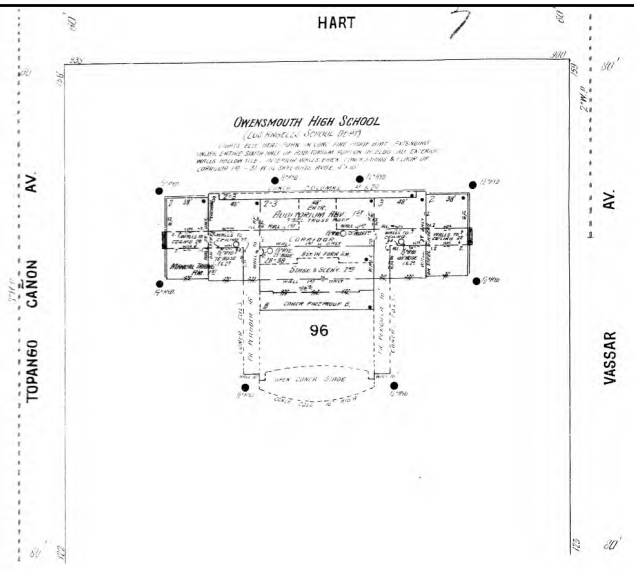

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Certification # 29F7-4EF2-B802

Site Name:	CANOGA PARK HIGH SCHOOL
Address:	6850 Topanga Canyon Blvd
City, ST, ZIP:	Canoga Park, CA 91303
Client:	Eco & Associates, Inc.
EDR Inquiry:	5499207.3
Order Date:	11/30/2018
Certification #	29F7-4EF2-B802
Copyright	1919

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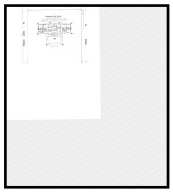
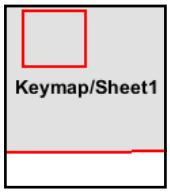
Outlined areas indicate map sheets within the collection.





Volume 1, Sheet Keymap/Sheet1

0 Feet 150 300 600

N

CANOGA PARK HIGH SCHOOL

6850 Topanga Canyon Blvd

Canoga Park, CA 91303

Inquiry Number: 5499207.3

November 30, 2018

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

11/30/18

Site Name:

CANOGA PARK HIGH SCHOC
6850 Topanga Canyon Blvd
Canoga Park, CA 91303
EDR Inquiry # 5499207.3

Client Name:

Eco & Associates, Inc.
18231 Irvine Blvd Suite 204
Tustin, CA 92780
Contact: Filmon Tesfaslasie

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Eco & Associates, Inc. were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # 29F7-4EF2-B802

PO # Eco-18-1231

Project CANOGA PARK HIGH SCHOOL

Maps Provided:

1932
1927

Sanborn® Library search results

Certification #: 29F7-4EF2-B802

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ☑ Library of Congress
- ☑ University Publications of America
- ☑ EDR Private Collection

The Sanborn Library LLC Since 1866™

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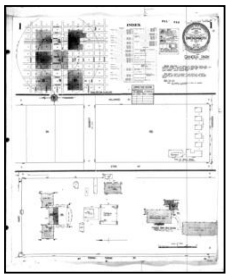
Sanborn Sheet Key

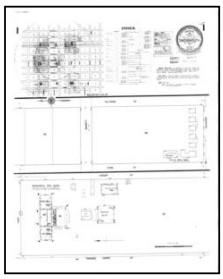
This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

1932 Source Sheets



Volume 1, Sheet Keymap/Sheet1
1932

1927 Source Sheets



Volume 1, Sheet Keymap/Sheet1
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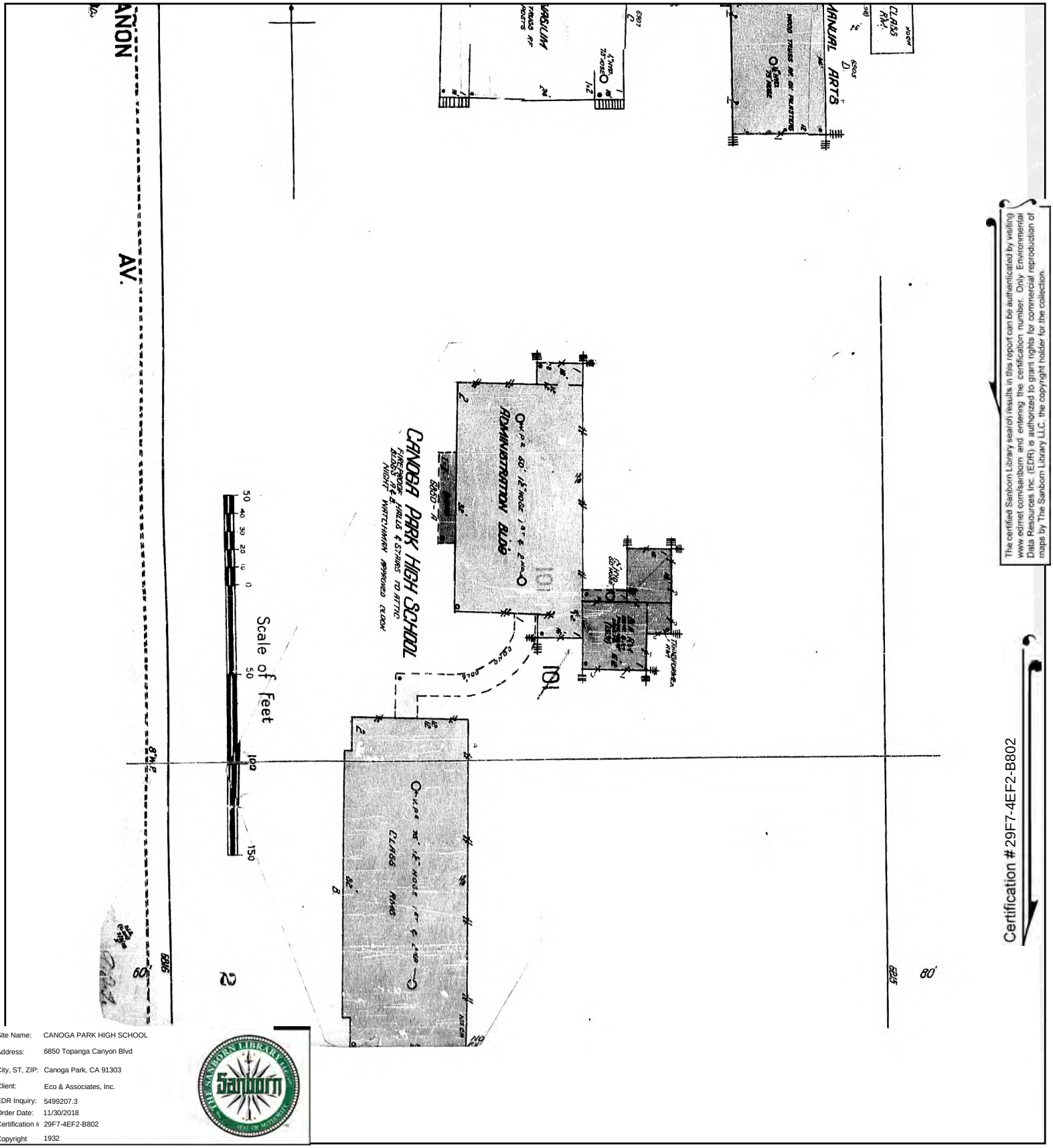

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Certification # 29F7-4EF2-B802

Site Name:	CANOGA PARK HIGH SCHOOL
Address:	6850 Topanga Canyon Blvd
City, ST, ZIP:	Canoga Park, CA 91303
Client:	Eco & Associates, Inc.
EDR Inquiry:	5499207.3
Order Date:	11/30/2018
Certification #	29F7-4EF2-B802
Copyright	1932

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

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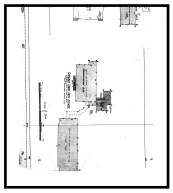

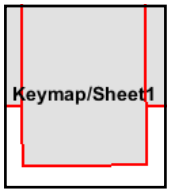

Volume 1, Sheet Keymap/Sheet1

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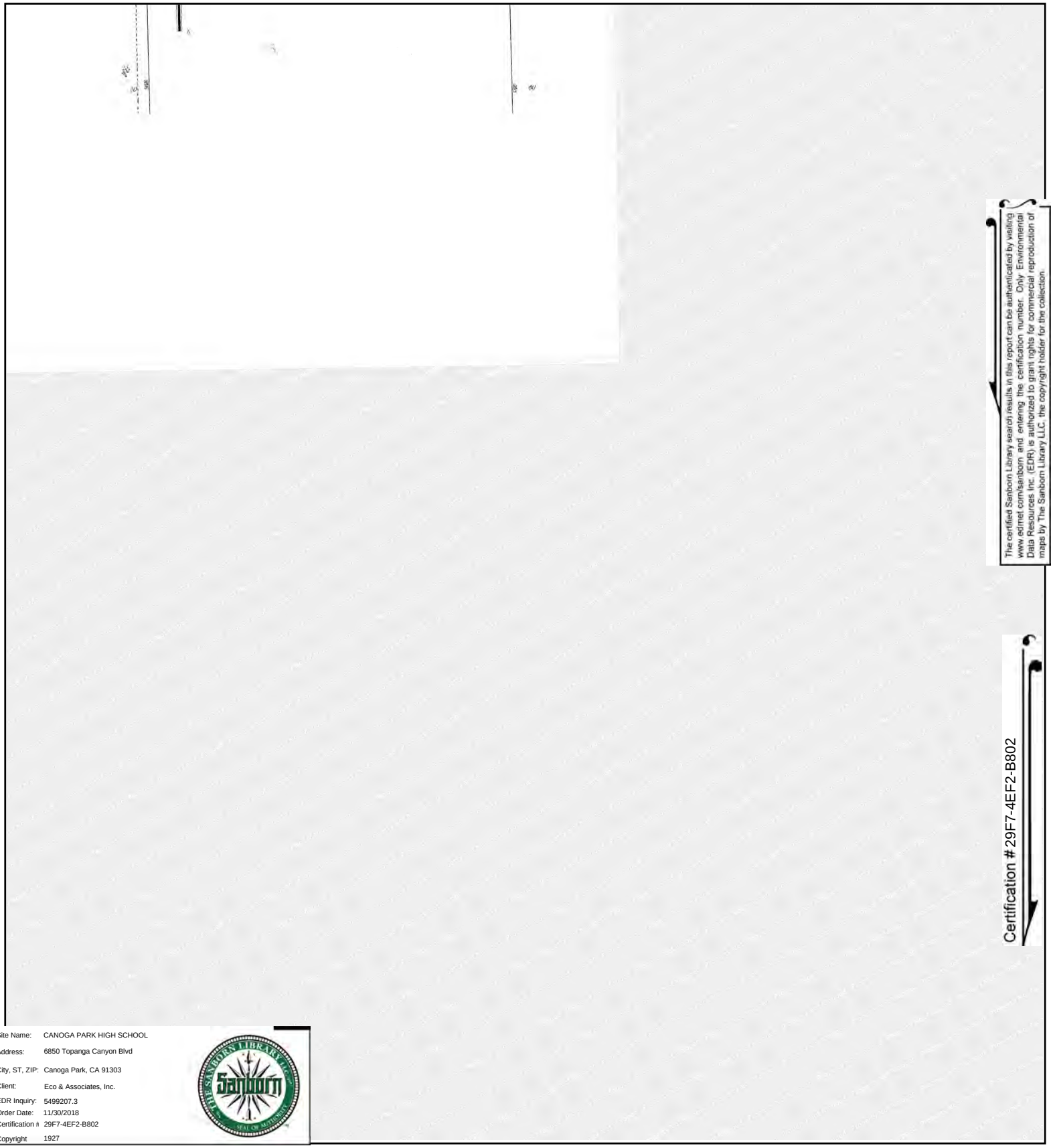

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Certification # 29F7-4EF2-B802

Site Name: CANOGA PARK HIGH SCHOOL
Address: 6850 Topanga Canyon Blvd
City, ST, ZIP: Canoga Park, CA 91303
Client: Eco & Associates, Inc.
EDR Inquiry: 5499207.3
Order Date: 11/30/2018
Certification #: 29F7-4EF2-B802
Copyright: 1927

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Outlined areas indicate map sheets within the collection.

0 Feet 150 300 600

Keymap/Sheet1

Volume 1, Sheet Keymap/Sheet1

N

APPENDIX D

AGENCY CORRESPONDENCE

Eco & Associates, Inc. •1855 W. Katella Ave. • Suite 340 • Orange • CA • 92867 • phone (714) 289-0995 • fax (714) 289-0965

December 3, 2018

Public Health Investigation (PHI)
Custodian of Records
5555 Ferguson Drive, Suite 120-04
Commerce, CA 90022

Request by FAX: (323)728-0217

FILE REVIEW REQUEST:

The purpose of this letter is to request an appointment to review the agency's file for the following site:

Canoga Park High School
6850 Topanga Canyon Blvd.
Los Angeles, CA 91303
Los Angeles County Assessor Parcel Number: 2138-001-900

You may contact the undersigned at 714.289.0995 (office) or email: ftesfaslasie@ecoinc.info if there are questions relating to this request or to provide a response to this request.

Sincerely,

Filmon Tesfaslasie
Project Geologist
Eco & Associates, Inc.
.

Eco & Associates, Inc. •1855 W. Katella Ave. • Suite 340 • Orange • CA • 92867 • phone (714) 289-0995 • fax (714) 289-0965

December 3, 2018

Department of Toxic Substances Control (DTSC)
Attention: File Review Request – Public Records Coordinator
9211 Oakdale Avenue
Chatsworth, CA 91311-6505

Request by FAX: (818) 717-6526

FILE REVIEW REQUEST:

The purpose of this letter is to request an appointment to review the agency's file for the following site:

Canoga Park High School
6850 Topanga Canyon Blvd.
Los Angeles, CA 91303
Los Angeles County Assessor Parcel Number: 2138-001-900

You may contact the undersigned at 714.289.0995 (office) or email: ftesfaslasie@ecoinc.info if there are questions relating to this request or to provide a response to this request.

Sincerely,

Filmon Tesfaslasie
Project Geologist
Eco & Associates, Inc.

Department of Toxic Substances Control

Matthew Rodriquez
Secretary for
Environmental Protection

Barbara A. Lee, Director
9211 Oakdale Avenue
Chatsworth, California 91311

Edmund G. Brown Jr.
Governor

December 6, 2018

Mr. Filmon Tesfaslasie
Eco & Associates, Inc.
1855 West Katella Ave, Suite 340
Orange, CA 92867

6850 Topanga Canyon Blvd., Los Angeles, CA 91303
APN: 2138-001-900
PR3-120618-03

Dear Mr Tesfaslasie:

We have received your Public Records Act Request for records from the Department of Toxic Substances Control.

After a thorough review of our files we have found that no such records exist at this office pertaining to the site/facility referenced above.

We would also like to inform you about Envirostor, a database that provides information and documents on over 5,000 DTSC cleanup sites. Envirostor can be accessed at: http://www.envirostor.dtsc.ca.gov/public. Also, a computer is available in the Central Files of each DTSC Regional Office for use by community members to view Envirostor.

If you have any questions or would like further information regarding your request, please contact me at (818) 717-6521.

Sincerely,

Robert Hardison

Robert Hardison /aa
Regional Records Coordinator

Printed on Recycled Paper

STATE OF CALIFORNIA
CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY
DEPARTMENT OF TOXIC SUBSTANCES CONTROL
9211 OAKDALE AVENUE
CHATSWORTH, CALIFORNIA 91311

SANTA CLARITA
CA 913
07 DEC 18

Recycle

U.S. POSTAGE » PITNEY BOWES
ZIP 91311 $ 000.47⁰
02 1W
0001378152 DEC 06 2018

RECEIVED

DEC 10 2018

DEPARTMENT OF TOXIC
SUBSTANCES CONTROL

NIXIE 911 NFE 1 18I0012/07/18
RETURN TO SENDER
NOT DELIVERABLE AS ADDRESSED
UNABLE TO FORWARD

BC: 91311652011 *1152-02808-07-41

91311>6520
92867-348090

LOS ANGELES COUNTY FIRE DEPARTMENT
HEALTH HAZARDOUS MATERIALS DIVISION
REQUEST FOR PUBLIC RECORDS

If you have any questions about completing the form or requesting Hazardous Materials reports call (323) 890-4045.
Please submit your request for public records by Email to: PRA-HHMD@fire.lacounty.gov

***Required Information**

REQUESTOR INFORMATION	
Name *	Filmon Tesfaslasie
Address *	18231 Irvine Blvd., Ste 204
City *	Tustin
State *	CA
Zip *	92780
Telephone No. *	714-289-0995
Email address *	ftesfaslasie@ecoinc.info
CONTACT PERSON INFORMATION ***(If different from Requestor)***	
Name	
Telephone No.	
DELIVERY OF RECORDS ***(If different from Requestor)***	
E-mail Address	

RECORD INFORMATION Type of Record *

FACILITY INSPECTION RECORDS:	**SITE MITIGATION RECORDS:**	**EMERGENCY RESPONSE REPORTS:**
☒ Hazardous Materials Handler Reports	☒ Clean-up Oversight Reports	☐ Incident Reports
☒ Hazardous Waste Generator Reports		
☒ Onsite Hazardous Waste Treatment Reports		
☒ Aboveground Petroleum Tanks Reports		
☒ Underground Storage Tanks Reports		
☒ California Accidental Release Prevention Reports		

Other Type of Record:	
REQUEST INFORMATION ***(Provide as much information possible)***	
Incident Date / Time	
Owner Name	
Inspector Name (If known)	

LOCATION OF REQUEST *

Street Number	Street Direction	Street Name	Street Type	City	Postal Code
6850		Topanga Canyon	Blvd.	Los Angeles	91303

South Coast
Air Quality Management District
21865 Copley Drive, Diamond Bar, CA 91765-4178
(909) 396-2000 • www.aqmd.gov

Information Management
Public Records Unit

Direct Dial: (909) 396-3700
FAX: (909) 396-3330

PUBLIC RECORDS REQUEST FORM

PRU Office Use Only

CONTROL NO.

Online access is available for certain public information about SCAQMD-regulated facilities through SCAQMD's search tool -FIND **(Facility Information Detail). Go to the SCAQMD Website at http://www3.aqmd.gov/webappl/fim/prog/search.aspx.**

The following types of records are immediately available on FIND:
Permits to Operate, Equipment Lists, Notices of Violation, Notices to Comply, and Emissions Summaries

Please read the Instructions for Requesting Records, and then fill out this form completely. You may include an attachment to the form, if necessary.

REQUESTOR INFORMATION

NAME: Filmon Tesfaslasie		DATE: December 3, 2018
COMPANY: Eco & Associates, Inc.		
MAILING ADDRESS: 18231 Irvine Blvd., Suite 204,		
CITY: Tustin	STATE: CA	ZIP CODE: 92780
PHONE NUMBER: 714-289-0995	FAX NUMBER: 714-289-0965	
EMAIL ADDRESS: ftesfaslasie@ecoinc.info		

REQUESTED RECORDS. Please be as specific as possible in describing the records you are seeking. The more specific you are, the easier it will be to determine if such records exist in District files. Please contact the Public Records Unit if you need assistance in identifying District records.

Permits, notice of violation, complaints, asbestos record, and other related environmental records.

TIME PERIOD OF RECORDS REQUESTED From: 1924 To: present

REQUESTED FACILITY INFORMATION (If Applicable).
Please limit one facility or site address per request form.

FACILITY NAME: Canoga Park High School		
FACILITY ADDRESS: 6850 Topanga Canyon Blvd.		
CITY: Los Angeles	STATE:CA	ZIP CODE: 91303
FACILITY I.D. NO. (if known):	APPL. OR PERMIT NO. (if known):	

☐ I wish to inspect the requested records, where applicable, or receive the requested records electronically at no charge. I do not want copies produced at this time.
☐ I request that the SCAQMD contact me prior to copying the requested records if the cost exceeds $20.00.
☐ I would like copies of the requested records and I hereby agree to reimburse the SCAQMD for the direct cost of duplication in accordance with Gov. Code Sec. 6253(b). See the Instructions page for direct costs of duplication.

User: ltrapp

SCAQMD Facility Equipment List Report

Run Date : 12/05/2018 03:59 PM

Facility: 72693 LA UNI SCH DIST, CANOGA PARK SENIOR HIGH Status: Active MR: 1402 SIC: 8211 Team: L1
Last Inspection: 07/16/2014 On Hold: Suspended: TS: TS-11 Industrial: Sector-based Inspections Quarter: 1001 - inspect in 1st & 4th quarters, every year
Contact: ANGELITA KHAZEI (213) 6337212 RECLAIM: N TITLE V: N AIRS ID: Assignment: 1443273
Location Address: 6850 TOPANGA CANYON BLVD, CANOGA PARK 91303-2354 Sector:VE Inspector: MR04 MICHAEL RAMOS
Mailing Address: 333 S BEAUDRY AVE, LOS ANGELES 90017 Sector:WF Inspection Date: 07/16/2014
Instruction: Disposition: Operating in Compliance at time of inspection

Application No.	Permit No.	Permit Issue Date	Permit Status	Equipment Category		BCAT/CCAT Description	Application Date	Application Status
603112				666415	BCAT	RULE 1415 PLAN NOTIFICATIONS	04/17/2018	BANKING/ PLAN GRANTED, NON BILLABLE
587140				666415	BCAT	RULE 1415 PLAN NOTIFICATIONS	06/28/2016	BANKING/ PLAN GRANTED, NON BILLABLE
563317				666415	BCAT	RULE 1415 PLAN NOTIFICATIONS	04/03/2014	BANKING/ PLAN GRANTED, NON BILLABLE
532675				666415	BCAT	RULE 1415 PLAN NOTIFICATIONS	02/01/2012	BANKING/ PLAN GRANTED, NON BILLABLE
506530				666415	BCAT	RULE 1415 PLAN NOTIFICATIONS	02/04/2010	BANKING/ PLAN GRANTED, NON BILLABLE
480027				666415	BCAT	RULE 1415 PLAN NOTIFICATIONS	03/21/2008	BANKING/ PLAN GRANTED, NON BILLABLE
448323				666415	BCAT	RULE 1415 PLAN NOTIFICATIONS	08/23/2005	BANKING/ PLAN GRANTED, NON BILLABLE
397399				666415	BCAT	RULE 1415 PLAN NOTIFICATIONS	01/22/2002	BANKING/ PLAN GRANTED, NON BILLABLE
308569				666097	BCAT	COMPLIANCE PLAN FOR RULE 1146.1	10/17/1995	BANKING/ PLAN GRANTED, NON BILLABLE
279473	D72304	04/12/1993	INACTIVE	011001	BCAT	BOILER (<5 MMBTU/HR) NAT GAS ONLY	03/22/1993	PERMIT TO OPERATE GRANTED
279473	D72304	04/12/1993	INACTIVE	83	CCAT	LOW NOX BURNER	03/22/1993	PERMIT TO OPERATE GRANTED
279474	D72305	04/12/1993	INACTIVE	011001	BCAT	BOILER (<5 MMBTU/HR) NAT GAS ONLY	03/22/1993	PERMIT TO OPERATE GRANTED
279474	D72305	04/12/1993	INACTIVE	83	CCAT	LOW NOX BURNER	03/22/1993	PERMIT TO OPERATE GRANTED
279475	D72306	04/12/1993	INACTIVE	011001	BCAT	BOILER (<5 MMBTU/HR) NAT GAS ONLY	03/22/1993	PERMIT TO OPERATE GRANTED
279475	D72306	04/12/1993	INACTIVE	83	CCAT	LOW NOX BURNER	03/22/1993	PERMIT TO OPERATE GRANTED
232334	D31140	09/24/1990	ACTIVE	011001	BCAT	BOILER (<5 MMBTU/HR) NAT GAS ONLY	06/28/1990	PERMIT TO OPERATE GRANTED
232335	D31141	09/24/1990	ACTIVE	011001	BCAT	BOILER (<5 MMBTU/HR) NAT GAS ONLY	06/28/1990	PERMIT TO OPERATE GRANTED
208970	D30562	09/24/1990	INACTIVE	011001	BCAT	BOILER (<5 MMBTU/HR) NAT GAS ONLY	06/02/1989	PERMIT TO OPERATE GRANTED
208971	D24595	07/19/1990	INACTIVE	011001	BCAT	BOILER (<5 MMBTU/HR) NAT GAS ONLY	06/02/1989	PERMIT TO OPERATE GRANTED
208972	D24596	07/19/1990	INACTIVE	011001	BCAT	BOILER (<5 MMBTU/HR) NAT GAS ONLY	06/02/1989	PERMIT TO OPERATE GRANTED

Inspector: _____ Date: _____ Reviewed By: _____ Date: _____

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
21865 East Copley Drive, Diamond Bar, CA 91765

PERMIT TO CONSTRUCT/OPERATE

Permit No.
D72304
A/N 279473
Page 1

This initial permit must be renewed ANNUALLY unless the equipment is moved, or changes ownership.
If the billing for annual renewal fee (Rule 301.f) is not received by the expiration date, contact the District.

Legal Owner or Operator: **ID 072693**

LA UNI SCH DIST, CANOGA PARK SENIOR HIGH
ATTN: H.E. MENESES
P O BOX 2298, BSC RM 303
LOS ANGELES, CA 90051

Equipment Location: 6850 TOPANGA CANYON BLVD, CANOGA PARK, CA 91303-2354

Equipment Description:

BOILER, WEIL-MCLAIN, SECTIONAL TYPE, MODEL HR44-12, 2,800,000 BTU PER HOUR, WITH ONE VIKES INSTA-THERM, BIT NO. 2800X, NATURAL GAS-FIRED LOW NOX BURNER.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.

2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.

3. THE BOILER SHALL BE FIRED ON NATURAL GAS ONLY.

4. THE OXIDES OF NITROGEN CONCENTRATIONS IN THE FLUE GAS SHALL NOT EXCEED 30 PPM, CALCULATED AS NO2, AND THE CARBON MONOXIDE CONCENTRATIONS SHALL NOT EXCEED 400 PPM, BOTH CALCULATED AT 3 PERCENT OXYGEN ON A DRY BASIS AND AVERAGED OVER A MINIMUM OF 15 MINUTES.

5. THE OWNER OR OPERATOR OF THIS BOILER SHALL CONDUCT SOURCE TESTS UNDER THE FOLLOWING CONDITIONS:

   A. SOURCE TESTING SHALL BE CONDUCTED WITHIN 60 CALENDAR DAYS AFTER NORMAL OPERATION OF THE EQUIPMENT HAS BEEN ESTABLISHED, BUT NOT LATER THAN JULY 1, 1994.

   B. THE SOURCE TEST SHALL MEASURE OXIDES OF NITROGEN, CARBON MONOXIDE, AND OXYGEN BY USING DISTRICT METHOD 100.1. THE TESTS SHALL BE CONDUCTED WHILE THE BOILER IS OPERATING AT MAXIMUM, MINIMUM, AND AVERAGE LOADS. THE SAMPLING TIME AT EACH LOAD SHALL BE AT A MINIMUM OF 15 MINUTES.

FILE COPY

CONTINUATION OF PERMIT TO CONSTRUCT/OPERATE

C. THE SOURCE TESTS SHALL BE CONDUCTED BY A TESTING LABORATORY CERTIFIED BY THE CALIFORNIA AIR RESOURCES BOARD IN THE REQUIRED TEST METHODS FOR EACH CRITERIA POLLUTANT TO BE MEASURED, AND COMPLIANCE WITH DISTRICT RULE 304.

D. A WRITTEN REPORT OF THE SOURCE TEST RESULTS SHALL BE FILED WITH THE DISTRICT NO LATER THAN 60 DAYS AFTER THE DATE OF THE SOURCE TEST. THE SOURCE TEST REPORT SHALL INCLUDE FUEL FLOW RATE AT EACH LOAD. THE REPORT SHALL ALSO PRESENT THE EMISSIONS DATA IN UNITS OF PARTS PER MILLION (PPM), ON A DRY BASIS AT 3% OXYGEN. THE OWNER OR OPERATOR OF THIS BOILER SHALL RETAIN A COPY OF THE SOURCE TEST, AND SHALL MAKE IT AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.

NOTICE

IN ACCORDANCE WITH RULE 206, THIS PERMIT TO OPERATE OR COPY SHALL BE POSTED ON OR WITHIN 8 METERS OF THE EQUIPMENT.

THIS PERMIT DOES NOT AUTHORIZE THE EMISSION OF AIR CONTAMINANTS IN EXCESS OF THOSE ALLOWED BY DIVISION 26 OF THE HEALTH AND SAFETY CODE OF THE STATE OF CALIFORNIA OR THE RULES OF THE AIR QUALITY MANAGEMENT DISTRICT. THIS PERMIT CANNOT BE CONSIDERED AS PERMISSION TO VIOLATE EXISTING LAWS, ORDINANCES, REGULATIONS OR STATUTES OF OTHER GOVERNMENT AGENCIES.

EXECUTIVE OFFICER

Dorris M Bailey

By Dorris M. Bailey/jp
4/12/1993

FILE COPY

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
21865 East Copley Drive, Diamond Bar, CA 91765

PERMIT TO CONSTRUCT/OPERATE

Permit No.
D72305
A/N 279474
Page 1

This initial permit must be renewed ANNUALLY unless the equipment is moved, or changes ownership.
If the billing for annual renewal fee (Rule 301.f) is not received by the expiration date, contact the District.

Legal Owner or Operator: LA UNI SCH DIST, CANOGA PARK SENIOR HIGH
ATTN: H.E. MENESES
P O BOX 2298, BSC RM 303
LOS ANGELES, CA 90051

ID 072693

Equipment Location: 6850 TOPANGA CANYON BLVD, CANOGA PARK, CA 91303-2354

Equipment Description:

BOILER, WEIL-MCLAIN, SECTIONAL TYPE, MODEL HR44-12, 3,000,000 BTU PER HOUR, WITH ONE VIKES INSTA-THERM, BIT NO. 3000X, NATURAL GAS-FIRED LOW NOX BURNER.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.

2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.

3. THE BOILER SHALL BE FIRED ON NATURAL GAS ONLY.

4. THE OXIDES OF NITROGEN CONCENTRATIONS IN THE FLUE GAS SHALL NOT EXCEED 30 PPM, CALCULATED AS NO2, AND THE CARBON MONOXIDE CONCENTRATIONS SHALL NOT EXCEED 400 PPM, BOTH CALCULATED AT 3 PERCENT OXYGEN ON A DRY BASIS AND AVERAGED OVER A MINIMUM OF 15 MINUTES.

5. THE OWNER OR OPERATOR OF THIS BOILER SHALL CONDUCT SOURCE TESTS UNDER THE FOLLOWING CONDITIONS:

   A. SOURCE TESTING SHALL BE CONDUCTED WITHIN 60 CALENDAR DAYS AFTER NORMAL OPERATION OF THE EQUIPMENT HAS BEEN ESTABLISHED, BUT NOT LATER THAN JULY 1, 1994.

   B. THE SOURCE TEST SHALL MEASURE OXIDES OF NITROGEN, CARBON MONOXIDE, AND OXYGEN BY USING DISTRICT METHOD 100.1. THE TESTS SHALL BE CONDUCTED WHILE THE BOILER IS OPERATING AT MAXIMUM, MINIMUM, AND AVERAGE LOADS. THE SAMPLING TIME AT EACH LOAD SHALL BE AT A MINIMUM OF 15 MINUTES.

FILE COPY

C. THE SOURCE TESTS SHALL BE CONDUCTED BY A TESTING LABORATORY CERTIFIED BY THE CALIFORNIA AIR RESOURCES BOARD IN THE REQUIRED TEST METHODS FOR EACH CRITERIA POLLUTANT TO BE MEASURED, AND COMPLIANCE WITH DISTRICT RULE 304.

D. A WRITTEN REPORT OF THE SOURCE TEST RESULTS SHALL BE FILED WITH THE DISTRICT NO LATER THAN 60 DAYS AFTER THE DATE OF THE SOURCE TEST. THE SOURCE TEST REPORT SHALL INCLUDE FUEL FLOW RATE AT EACH LOAD. THE REPORT SHALL ALSO PRESENT THE EMISSIONS DATA IN UNITS OF PARTS PER MILLION (PPM), ON A DRY BASIS AT 3% OXYGEN. THE OWNER OR OPERATOR OF THIS BOILER SHALL RETAIN A COPY OF THE SOURCE TEST, AND SHALL MAKE IT AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.

NOTICE

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EXECUTIVE OFFICER

Dorris M Bailey

By Dorris M. Bailey/jp
4/12/1993

FILE COPY

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
21865 East Copley Drive, Diamond Bar, CA 91765

PERMIT TO CONSTRUCT/OPERATE

Permit No.
D72306
A/N 279475
Page 1

This initial permit must be renewed ANNUALLY unless the equipment is moved, or changes ownership.
If the billing for annual renewal fee (Rule 301.f) is not received by the expiration date, contact the District.

Legal Owner or Operator: **ID 072693**

LA UNI SCH DIST, CANOGA PARK SENIOR HIGH
ATTN: H.E. MENESES
P O BOX 2298, BSC RM 303
LOS ANGELES, CA 90051

Equipment Location: 6850 TOPANGA CANYON BLVD, CANOGA PARK, CA 91303-2354

Equipment Description:

BOILER, WEIL-MCLAIN, SECTIONAL TYPE, MODEL HR44-12, 3,000,000 BTU PER HOUR, WITH ONE VIKES INSTA-THERM, BIT NO. 3000X, NATURAL GAS-FIRED LOW NOX BURNER.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.

2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.

3. THE BOILER SHALL BE FIRED ON NATURAL GAS ONLY.

4. THE OXIDES OF NITROGEN CONCENTRATIONS IN THE FLUE GAS SHALL NOT EXCEED 30 PPM, CALCULATED AS NO2, AND THE CARBON MONOXIDE CONCENTRATIONS SHALL NOT EXCEED 400 PPM, BOTH CALCULATED AT 3 PERCENT OXYGEN ON A DRY BASIS AND AVERAGED OVER A MINIMUM OF 15 MINUTES.

5. THE OWNER OR OPERATOR OF THIS BOILER SHALL DEMONSTRATE INITIAL COMPLIANCE WITH THE ABOVE LIMITS BY THE SUCCESSFUL SOURCE TESTING OF THE BOILER DESCRIBED IN THE PERMIT TO CONSTRUCT/PERMIT TO OPERATE, APPLICATION NUMBER 279474. A COPY OF THIS SOURCE TEST SHALL BE MAINTAINED ON FILE WITH THE BOILER DESCRIBED IN THIS PERMIT, AND SHALL BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.

FILE COPY

PERMIT TO CONSTRUCT/OPERATE

CONTINUATION OF PERMIT TO CONSTRUCT/OPERATE

NOTICE

IN ACCORDANCE WITH RULE 206, THIS PERMIT TO OPERATE OR COPY SHALL BE POSTED ON OR WITHIN 8 METERS OF THE EQUIPMENT.

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EXECUTIVE OFFICER

Dorris M Bailey

By Dorris M. Bailey/jp
4/12/1993

FILE COPY

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

PERMIT TO OPERATE

9150 FLAIR DRIVE, EL MONTE, CALIFORNIA 91731

Permit No.
D24595
A/N 208971
Page 1

This initial permit must be renewed ANNUALLY unless the equipment is moved, or changes ownership. If the billing for annual renewal fee (Rule 301.f) is not received by the expiration date, contact the District.

Legal Owner Or Operator: **ID 072693**
LOS ANGELES UNIFIED SCHOOL DISTRICT
1240 SOUTH NAOMI AVENUE
LOS ANGELES, CA 90021
ATTN: H.E. MENESES

Equipment located at:
6850 TOPANGA CANYON ROAD
CANOGA PARK, CA 91303

Equipment Description:

BOILER, WEIL MCLAIN, SECTIONAL TYPE, SERIAL NUMBER BOILER #2, 3540000 BTU/HR, WITH 1 PEABODY GORDON PIATT GAS BURNER.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.

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FILE COPY

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EXECUTIVE OFFICER

By Raquel Puerta/Creighton
June 26, 1990

FILE COPY

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

PERMIT TO OPERATE

9150 FLAIR DRIVE, EL MONTE, CALIFORNIA 91731

Permit No.
D24596
A/N 208972
Page 1

This initial permit must be renewed ANNUALLY unless the equipment is moved, or changes ownership. If the billing for annual renewal fee (Rule 301.f) is not received by the expiration date, contact the District.

Legal Owner Or Operator: **ID 072693**
LOS ANGELES UNIFIED SCHOOL DISTRICT
1240 SOUTH NAOMI AVENUE
LOS ANGELES, CA 90021
ATTN: H.E. MENESES

Equipment located at:
6850 TOPANGA CANYON ROAD
CANOGA PARK, CA 91303

Equipment Description:

BOILER, WEIL MCLAIN, SECTIONAL TYPE, SERIAL NUMBER BOILER #3, 3540000 BTU/HR, WITH 1 PEABODY GORDON PIATT GAS BURNER.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.

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FILE COPY

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EXECUTIVE OFFICER

By Raquel Puerta/Creighton
June 26, 1990

FILE COPY

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

PERMIT TO OPERATE

9150 FLAIR DRIVE, EL MONTE, CALIFORNIA 91731

Permit No.
D30562
A/N 208970
Page 1

This initial permit must be renewed ANNUALLY unless the equipment is moved, or changes ownership. If the billing for annual renewal fee (Rule 301.f) is not received by the expiration date, contact the District.

Legal Owner Or Operator:

ID 072693
LOS ANGELES UNIFIED SCHOOL DISTRICT
P O BOX 2298 MAINT. BRNCH #302
LOS ANGELES, CA 90051
ATTN: H.E. MENESES

Equipment located at:

6850 TOPANGA CANYON BLVD.
CANOGA PARK, CA 91303

Equipment Description:

BOILER, WEIL-MCLAIN, SECTIONAL TYPE, SERIAL NUMBER BOILER #1, 3540000 BTU/HR, WITH 1 PEABODY-GORDON PRATT GAS BURNER.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.

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EXECUTIVE OFFICER

By Raquel Puerta/Creighton
September 11, 1990

FILE COPY

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

PERMIT TO OPERATE

9150 FLAIR DRIVE, EL MONTE, CALIFORNIA 91731

Permit No.
D31140
A/N 232334
Page 1

This initial permit must be renewed ANNUALLY unless the equipment is moved, or changes ownership. If the billing for annual renewal fee (Rule 301.f) is not received by the expiration date, contact the District.

Legal Owner Or Operator: **ID 072693**

LOS ANGELES UNIFIED SCHOOL DISTRICT
P O BOX 2298 MAINT.BRNCH #302
LOS ANGELES, CA 90051
ATTN: H.E. MENESES

Equipment located at:

6850 TOPANGA CANYON BLVD.
CANOGA PARK, CA 91303

Equipment Description:

BOILER, AMERICAN STANDARD, SECTIONAL TYPE, MODEL NUMBER 4G-21, SERIAL NUMBER W497 BOILER #2, 2400000 BTU/HR, WITH 20 AMERICAN STANDARD GAS BURNERS.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.

2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.

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EXECUTIVE OFFICER

By Raquel Puerta/Creighton
September 8, 1990

FILE COPY

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

PERMIT TO OPERATE

9150 FLAIR DRIVE, EL MONTE, CALIFORNIA 91731

P[illegible]
131141
A/N 332[illegible]
Page 1

This initial permit must be renewed ANNUALLY unless the equipment is moved, or changes ownership. If the billing for annual renewal fee (Rule 301.f) is not received by the expiration date, contact the District.

Legal Owner Or Operator: ID 072693
LOS ANGELES UNIFIED SCHOOL DISTRICT
P O BOX 2298 MAINT. BRNCH # 30
LOS ANGELES, CA 90051
ATTN: H E MENESES

Equipment located at: 6850 TOPANGA CANYON BLVD.
CANOGA PARK, CA 91303

Equipment Description:

BOILER, AMERICAN STANDARD, SECTIONAL TYPE, MODEL NUMBER 4G-21, SERIAL NUMBER W496 BOILER #1, 2400000 BTU/HR, WITH 20 AMERICAN STANDARD GAS BURNERS.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.

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3. THIS EQUIPMENT SHALL BE FIRED ON NATURAL GAS ONLY.

FILE COPY

PERMIT TO OPERATE

9150 FLAIR DRIVE, EL MONTE, CALIFORNIA 91731

Permit No.
D31141
A/N 232335
Page 2

CONTINUATION OF PERMIT TO OPERATE

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EXECUTIVE OFFICER

By Raquel Puerta/Creighton
September 8, 1990

FILE COPY

Information Management
Public Records Unit

Direct Dial (909) 396-3700
Fax:(909) 396-3330

COMPLETION LETTER

December 13, 2018

FILMON TESFASLASIE
ECO & ASSOCIATES, INC.
18231 IRVINE BLVD.# SUITE 204
TUSTIN, CA 92780

Ref.: CONTROL NO. 97886
Received 12/5/2018

Re: P/O'S, NOV'S, COMPLAINTS, & ASBESTOS RECORDS FOR CANOGA PARK HIGH SCHOOL, 6850 TOPANGA CANYON BLVD, CANOGA PARK, CA, ID #72693.

After a thorough search of this agency's records, the following records were found:
P/O'S, EQL'S, & ASBESTOS RECORDS FOR CANOGA PARK HIGH SCHOOL, 6850 TOPANGA CANYON BLVD, CANOGA PARK, CA, ID #72693.

The following records were not found:
NOV'S, & COMPLAINTS FOR CANOGA PARK HIGH SCHOOL, 6850 TOPANGA CANYON BLVD, CANOGA PARK, CA, ID #72693.

YOUR REQUESTED RECORDS WERE PROVIDED ELECTRONICALLY ON 12/13/2018

If you have any questions, please do not hesitate to contact me, Tuesday through Friday, **8:00 a.m**. to **4:30 p.m.**

Sincerely,

LORA TRAPP x2854
For COLLEEN PAINE
Public Records Coordinator

:lt

APPENDIX E

SITE RECONNAISSANCE PHOTOGRAPHS



Photo No. 1: Canoga Park High School main building (Facing west).



Photo No. 2: Canoga Park High School main building (facing Northeast).



Photo No. 3: Bell Creek (east view).



Photo No. 4: the confluence of Bell and Calabasas Creek (west view) – Photo: courtesy of Google Inc. (March 2018).



Photo No. 5: Chemicals stored in shelves in Building Unit #2.



Photo No. 6: Chemicals stored in shelves in Building Unit #2.



Photo No. 7: Chemicals stored in shelves in Building Unit #2.



Photo No. 8: Labeled laboratory chemicals stored (close up view).



Photo No. 9: Detergent and tools in the Janitor's closet in Classroom #3.



Photo No. 10: Clarifier north of the Ceramics workshop in Building Classroom #3.



Photo No. 11: Former auto shop class (inside view).



Photo No. 12: Clarifier attached with Building Shop # 2 (facing East).



Photo No. 13: Transformer adjacent to the former boiler room (facing North).



Photo No. 14: Transformer adjacent to the Classroom # 3 (facing Southwest).



Photo No. 15: Transformer in the Owensmouth High School (facing South).

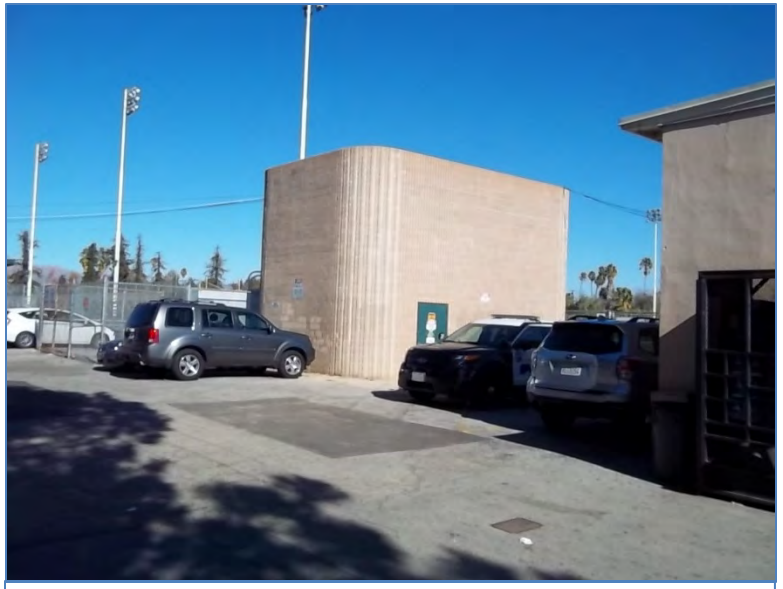


Photo No. 16: Main transformer west of Playground (facing East).



Photo No. 17: Storage Unit - Building ID # 26267 (facing East).



Photo No. 18: Gasoline stains on the floor (southern portion of unit).



Photo No. 19: Five-gallon gasoline container stored on table (closeup).



Photo No. 20: 120 pounds of lubricant at the storage unit. (closeup).



Photo No. 21: Concrete building (facing Southeast).



Photo No. 22: Two 55-gallon drums in the eastern room of the concrete building (facing South).



Photo No. 23: Relatively smaller concrete building (facing South).



Photo No. 24: Destroyed monitoring well (closeup).

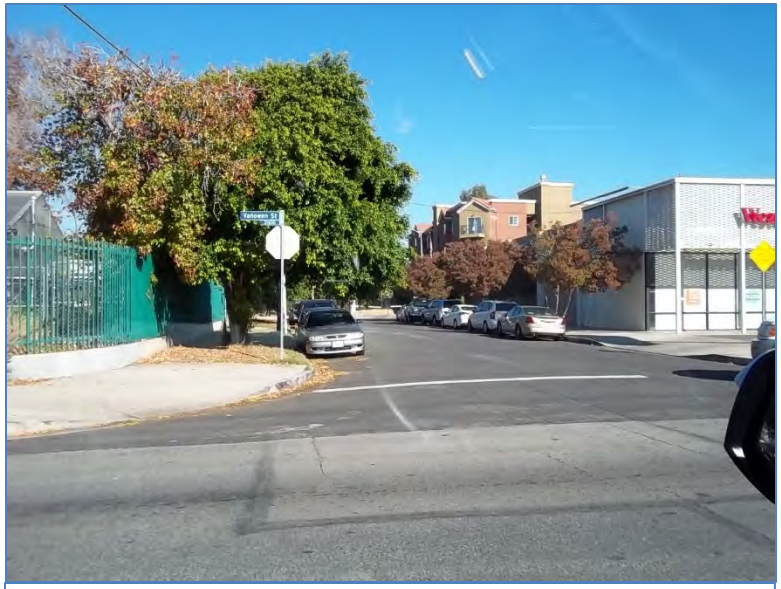


Photo No. 25: Road view of the Site's eastern side (facing North).



Photo No. 26: Road view of the site's northern side (facing West).

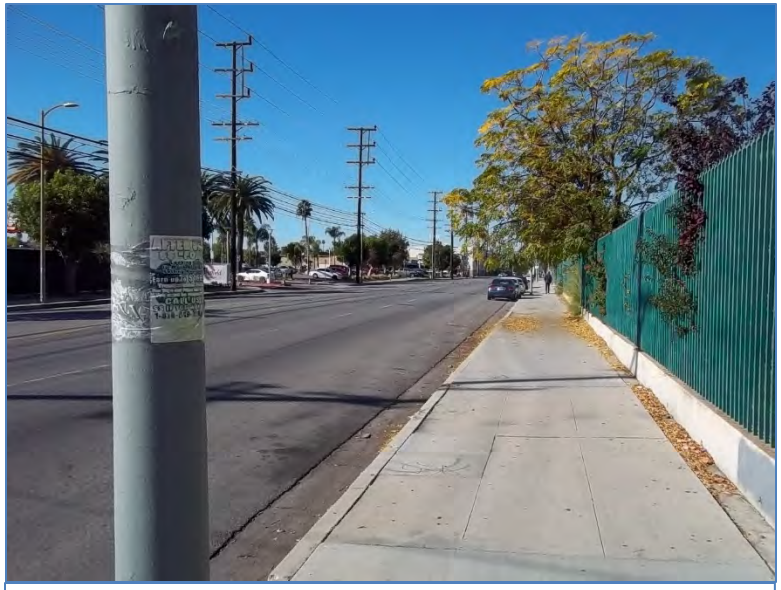


Photo No. 27: Road view of the Site's western side (facing North).



Photo No. 28: Gas Depot and Red Carpet Car Wash (facing South).

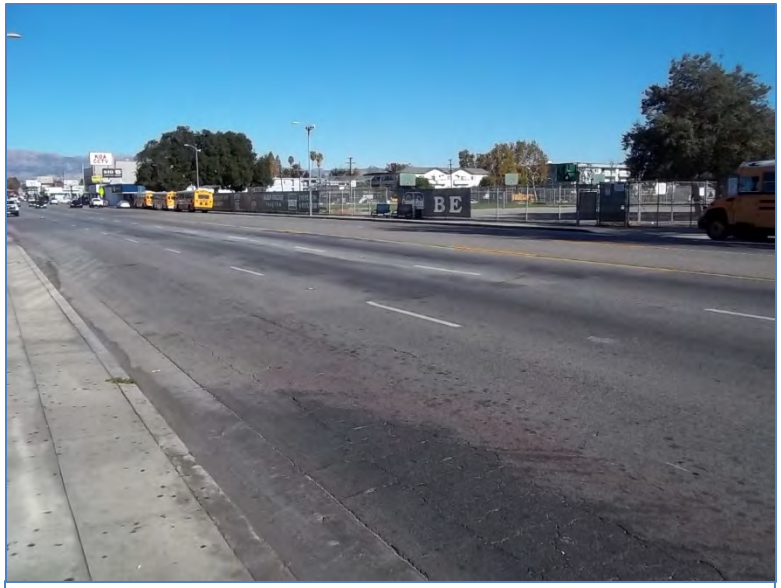


Photo No. 29: Road view of the Site's eastern side (facing North).

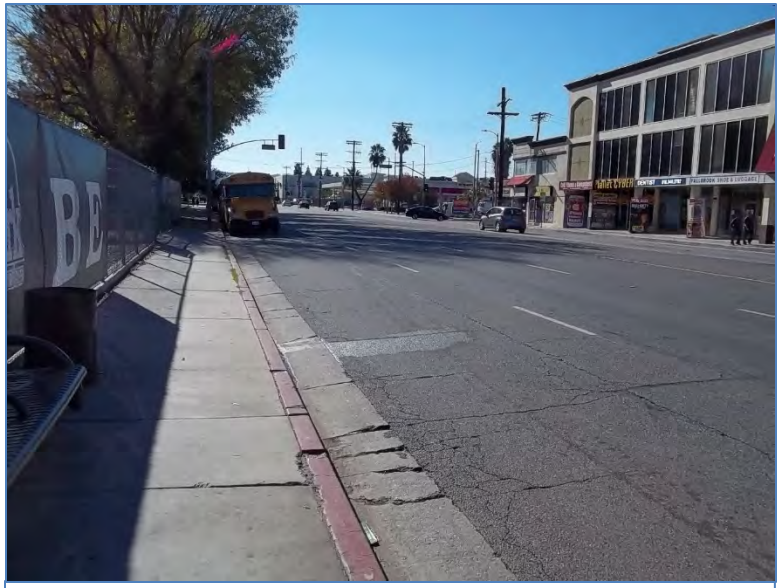


Photo No. 30: Road view of the Site's eastern side (facing South).

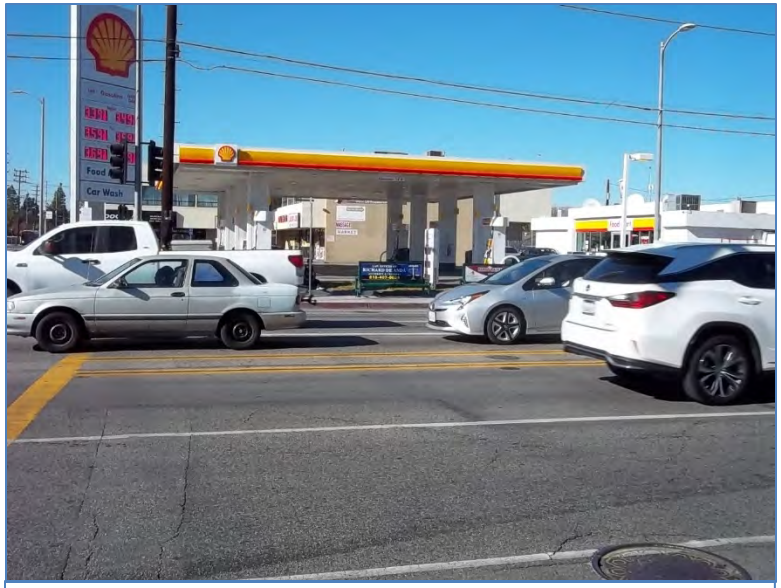


Photo No. 31: Shell Gas Station – view from Topanga Canyon Road (facing West).



Photo No. 32: Topanga Speed Wash – car wash (facing Northwest).

APPENDIX F

SUPPORTING DOCUMENTS

- *ASTM 1527-05 PHASE I ESA USER QUESTIONNAIRE*
- *PRELIMINARY ENVIRONMENTAL SCREENING OF EXISTING SCHOOL SITE*
- *INVENTORY OF CHEMICALS*
- *USER PROVIDED INFORMATION*

ASTM 1527-05 Phase I ESA User Questionnaire

Person Interviewed:

Interview Date/Method	12/03/2018/ In person
Name and Title	Mr. Carlos Moran – Plant Manager Mr. Ralph Wilkinson – Teacher/ Chemical Safety Coordinator Mr. Eric Longenecker – LAUSD Site Assessment Project Manager
Company Name	Canoga Park High School
Contact Information	818-637-1334
How long have you been associated with the Site?	Around 15 years for Mr. Carlos Moran

1. What is the reason for the Phase I?

Redevelopment or construction work around the Assembly Hall area.

2. What are the current uses of the Property?

High School

3. Are any hazardous material and/or petroleum products used at the Site? If so, what are they used for and where are they stored?

Gasoline for landscape equipment including mowers, trimmers, and others. The storage Unit located in the northern portion of the Site (Building ID 26267) is used as storage of the land scape equipment and the storage unit located at the Owensmouth High School (northeastern portion) is used as storage and dispenser of gasoline.

4. Are you aware of any releases of hazardous materials or petroleum products at the Site?

No

5. Are hazardous wastes generated at the Site? If so, where are they stored? How often and by who are they disposed?

No

6. Before its current use, do you know what the Site was used for?

It was developed as school

7. Have you ever noticed pools of unidentified liquids or staining on the ground at the Site?

No

8. Are you aware of the presence of any wells at the Site?

No active wells. There are abandoned (destroyed wells) in the southwestern corner of the Site.

9. Are you aware of the existence of the following documents related to the Site?

a) Any previously conducted environmental site assessment or audit reports

No

b) Any environmental permits (solid waste disposal, hazardous waste disposal, wastewater treatment/disposal, NPDES).

No

c) Any registrations or plans for USTs, ASTs, wastewater clarifiers/treatment systems or septic systems

No

d) Any spill control and countermeasure plans

No

e) Any geologic, geotechnical or hydrogeologic reports

No

f) Any notices or correspondence from any government agencies regarding past or current violations of environmental regulations

No

g) Any environmental liens against the Site

No

h) Any deed or land use restrictions or limitations for the Site related to environmental conditions

No

i) Any environmental liens against the Site

No

j) Any risk assessment reports

No

10. Do you know of spills or other chemical releases that have taken place at the property?

No

11. Are you aware of any current or previous environmental issues/problems on the neighboring properties?

No

12. Is there known asbestos onsite? Was asbestos survey conducted and do you know the results/ or do you have documents?

Yes, Asbestos documents are stored in the administration office.

13. Are there know radon problems in the area? Has there been any radon sampling done?

14. How many transformers are located within the property?

No.	Condition (stain?)	Location
1	No stain	East of the former boiler room
2	No stain	East of the Clrm Bldg # 3
3	No stain	Northeast portion of the Site – Ownsmouth High School
4	No stain	Southwest of the athletic track field

15. Any above former or current UST or ASTs? Describes size and content.

None.

Preliminary Environmental Screening of Existing School Site

School Name: Canoga Park High School			
School Address: 6850 Topanga Canyon Blvd., Canoga Park, CA 91303			
Selection Criteria	**Yes**	**No**	**Comments**
Powerlines/Electromagnetic Fields [CCR, Title 5, 14010(c)]			
Are any 50-133 kV powerlines/electromagnetic fields within 100 feet of the Site?		X	
Are any 220-230 kV powerlines/electromagnetic fields within 150 feet of the Site?		X	
Are any 500-550 kV powerlines/electromagnetic fields within 350 feet of the Site?		X	
Railroads [CCR, Title 5, 14010(d)]			
Are any railroads within 1,500 feet of the Site?		X	
Traffic Noise [CCR, Title 5, 14010(e)]			
Is the Site adjacent to roads or freeways that could adversely affect the educational program?		X	
Faults [CCR, Title 5, 14010(f)]			
Do any active earthquake faults or fault traces run through the Site?		X	
Flood or Inundation Area [CCR, Title 5, 14010(g)]			
Is the Site subject to flooding or dam inundation?		X	
Pipelines and Above Ground Tanks [CCR, Title 5, 14010(h)]			
Are any above-ground water or fuel storage tanks near the Site?		X	
Are any above-ground or underground pipelines located within 1,500 feet of the Site?		X	
Liquefaction and Landslides [CCR, Title 5, 14010(i)]			
Is the Site subject to liquefaction or landslides?	X		Based on the Seismic Hazard Zones Map (1998), the Site falls within areas where historical occurrence of liquefaction, or local geological, geotechnical and ground water conditions indicate a potential for permanent ground displacement.
Traffic and Pedestrian Safety [CCR, Title 5, 14010(l)]			
Is the Site adjacent to any major arterial street(s)?		X	

Preliminary Environmental Screening of Existing School Site

School Name: Canoga Park High School

School Address: 6850 Topanga Canyon Blvd., Canoga Park, CA 91303

Selection Criteria	Yes	No	Comments
Compatible Zoning [CCR, Title 5, 14010(m)]			
Is the zoning surrounding the Site compatible?		X	
Light, Wind, Air Pollution [CCR, Title 5, 14010(q)]			
Is the Site subject to light, wind or air pollution?		X	
Easements [CCR, Title 5, 14010(r)]			
Area any easements on or adjacent to the Site which may restrict access or building placement?		X	
Border Zone Property [CCR, Title 5, 14010(t)]			
Is the Site within 2,000 feet of any significant disposal of hazardous waste site?		X	
Cellular Phone Towers [LAUSD Board Resolution]			
Are any cellular phone towers on or adjacent to the Site?		X	
Air Pollution [LAUSD Board Resolution]			
Are any major transportation corridors (freeway, major rail line) within 500 feet of the Site?		X	
Are any major stationary sources of emissions within 500 feet of the Site?		X	
Methane Zone			
Is the Site a known methane (or buffer) zone or oil field?		X	
Oil Wells			
Are any oil wells located on the Site?		X	
Airports			
Are any airports within two nautical miles of the Site?		X	

Inventory of Chemicals

Name of Chemical	Quantity	Manufacturer	Location	Remarks/Notes	M.S.D.S.
Ammonium sulfate	500g	Sargent Welch	228		YES
Calcium Chloride	2.5kg	VWR Scientific	228		YES
Copper II Chloride	100g	Flinn Scientific	228		YES
Calcium Oxide	500g		228		YES
Calcium Nitrate	500g	Vallen	228		YES
Copper II Carbonate Hydroxide	500g	Science kit and Boreal	228		YES
Cobalt Chloride 6H2O	400g	Science kit and Boreal	228		YES
Ferrous Ammonium sulfate	2 x 500g	Flinn Scientific	228		YES
Magnesium sulfate	2 x 500g	Sargent Welch	228		YES
Manganous sulfate	10g	Flinn Scientific	228		YES
Potassium bisulfate	500g	Baker Analyze	228		YES
Potassium bromate	20g	Flinn Scientific	228		YES
Potassium iodate	2 x 113.4g	Baker	228		YES
Sodium carbonate	2.5kg	VWR Scientific	228		YES
Sodium sulfite	500g	Science kit and Boreal	228		YES
Sodium iodide	500g	Flinn Scientific	228		YES
Strontium Chloride	1/4lb	Mallinckrodt	228		YES
Zinc dust	5g	not indicated	228		YES
Copper sheet		cenco central scientific comp.	228		YES
Graphite	not indicated	not indicated	228		YES
Gold ore	10g	Matheson and coleman bell	228		YES
Calcium turning	10g	Matheson and coleman bell	228		YES
Silver metal foil	102 x 5	E. H. Sargent	228		YES
Zinc strip	2lbs	Matheson and coleman bell	228		YES
Zinc metal sheet	1lb	JTBaker	228		YES
Zinc Mossy	450g	Flinn Scientific	228		YES
Animal Charcoal	1 bottle	Merck	228		YES
Acetamide crystals	1lb	Spectrum Chem	228		YES
Acetamide	1lb	Spectrum Chem	228		YES
Aluminum metallic turnings	4 lbs	Sterikem products	228		YES
Agar	2bottles	Med Chem	228		YES
Albumin	1/4lb	Central Scientific Co.	228		YES
Benzoic acid	3lbs	JTBaker	228		YES
Borax	1lb		228		YES

Inventory of Chemicals

Name of Chemical	Quantity	Manufacturer	Location	Remarks/Notes	M.S.D.S.
Boric Acid	2oz	Brunswig	228		YES
Charcoal granular	3 bottles	Braun	228		YES
Citric Acid	1lb	Merck	228		YES
Congo Red	1 bottle		228		YES
Corn Meal agar w/dextrose	1/4 lb	Difco Laboratories	228		YES
Dextrin	3bottles	bran corp	228		YES
Dextrose anhyderous	6bottles	Spectrum Chem	228	50-49-7	YES
Dextrose	28 oz	Spectrum Chem	228		YES
Diatomecious Earth			228		YES
DL-Alanine	100g	Med Chem	228	76610	YES
Ethanol	120ml	Carolina Biologica	228	746932	YES
Lysol	354ml (2bottles)	Lehc and Fink Products	228		YES
Maleic Acid	1.5g	Sargent Welch	228	110-16-7	YES
Nutriet agar	1lb/28oz	Science kit and Boreal/ Spectrum Chem	228/221		YES
Oil Cotton seed	3 bottles	Braun Corp	228		YES
Oil Degrading			228		YES
Oil Mineral	1bottle		228		YES
Oil Peppermint	1oz		228		YES
Oxalic acid crystals H2C2O4.2H2O	5LBS	MALLINCKRODT	228		YES
Pepsin Powder	2bottles/4oz	Braun Corp/Medical chemical	228		YES
Pepsin Powder NF Powder	40g	Central Scientific Co.	228	566600	YES
Petroleum Ether	50ml	School/AR Chemistry	228		YES
Phenol Red	1 bottle		228		YES
Phthalic Anhydride	1lb	JT Baker	228		YES
Phenolphthalein C20H14O4	1/4lb	Mallinckrodt	228		YES
Phenyl Salicylate	2 bottles	JT Baker	228	118-55-8	YES
Pure Gum Arabic Solution	1bottle	Hursst graphics	228	1/5/9000	YES
Rennet Tablets	9.9g Salada Food Inc		228		YES
Resorcinol, Recrystal Purified	2 bottles	JT Baker	228	108-46-3	YES
Salicylic Acid		Van Waters and Rogers Inc	228		YES
Silica	3bottles	Braun corp	228		YES
Sodium Chloride	1bottle		228		YES
Sulfur powder	1/4 lbs	Repack	228		YES
Sulfur	500g	Frey Scientific	228	79190	YES

Inventory of Chemicals

Name of Chemical	Quantity	Manufacturer	Location	Remarks/Notes	M.S.D.S.
Sulfur roll	5lbs x2	Mallinckrodt/Braun	228	8416	YES
Sulfur	10g x2	Integrated coordinated science	228		YES
Starch powder	3/4lb	Spectrum chemical	228	917004	YES
Tartaric acid		Mallinckrodt	228	2312	YES
Tartaric acid	1lb	Merck	228	87-69-4	YES
Tartar emetic	1lb	Mallinckrodt	228		YES
Toluidine 0.5%	15ml		228		YES
Universal Indicator	300ml	Integrated coordinated science	228		YES
Urea Crystal	4bottles	Braun chemical compay	228	57-13-6	YES
White Petrolatum	5lbs	LACCO	228		YES
Zinc	500g	EM	228		YES
Flame test kits (Carolina)	1 box		228		YES
Thin Layer chromatography		part #9599500	226	code 9599500	YES
	250ml x 6	Chromatographic solvent MeOH	226	code 9599500	YES
	25ml x 2	Red Leaf extract	226	code 9599500	YES
	10g x 2	Alfalfa Powder	226	code 9599500	YES
	50 ml x 2	Isopropyl alcohol	226	code 9599500	YES
Mole Ratio of reactants	250ml x 5	Sodium Hypochlorite 13%	226	code 9599500	YES
	400g x 1	Sodium Thiosulfate $Na_2S_2O_3$	226	code 9599500	YES
Reaction Kinetics		Part #9797600	226	code 9797600	YES
	1bottle	Soluble Starch	226	code 9797600	YES
	100ml x 2	Hydrogen peroxide 3%	226	code 9797600	YES
	100ml x 2	Potassium iodide 0.1%	226	code 9797600	YES
	100ml x 2	Sodium thiosulfate 0.001M	226	code 9797600	YES
	1 x 100ml	Hydrochloric Acid 0.1M	226	code 9797600	YES
Determination of MM of Liquid	25ml x 2	Isopropyl alcohol	226	code 9597000	YES
	25ml x 2	Methanol	226	code 9597000	YES
Qualitative Analysis		part #9798200	226	code 9597000	YES
	25ml x 2	Diphenylamine	226	code 9798200	YES
	100ml x 2	Mineral oil light	226	code 9798200	YES
	25ml x 2	Amonium molybdate 0.1M	226	code 9798200	YES
	25ml x 2	Iron (III) nitrate 0.1M	226	code 9798200	YES
	25ml x 2	Stannous chloride 0.1M	226	code 9798200	YES

Inventory of Chemicals

Name of Chemical	Quantity	Manufacturer	Location	Remarks/Notes	M.S.D.S.
	25ml x 2	Potassium permanganate 2%	226	code	YES
	100ml x 1	Sodium nitrate 0.1M	226	9798200 code	YES
	100ml x 1	Sodium Chloride 0.1M Sodium	226	9798200 code	YES
	100ml x 1	Bromide 0.1M Sodium sulfate	226	9798200 code	YES
	100ml x 1	0.1M	226	9798200 code	YES
	100ml x 1	Sodium phosphate 0.1M	226	9798200 code	YES
	100ml x 1	Sodium iodide 0.1M	226	9798200 code	YES
	25ml x 2	Barium chloride 0.1M	226	9798200 code	YES
	25ml x 2	Silver nitrate 0.1M Ammonium	226	9798200 code	YES
	100ml x 5	hydroxide 6M Nitric acid 6M	226	9798200 code	YES
	225ml x 2		226	9798200 code	YES
Flame test kits (Carolina)	5boxes		226	9798200	YES
Flame test kits (Carolina)	2Boxes				YES
		Wards natural scientific			
Urea	1lb	Baker chemical	221	3913702	YES
DL tryptophan	25g x2	cenco central scientific comp.	221		YES
Pepsin	4oz	H. M. Chemical	221		YES
Pancreatin	200g	Science kit and Boreal Coralina	221		YES
Benedicts solution	200ml	Sargent Welchj	221		YES
Bromthymal blue	0. x 304%	Flinn	122		YES
Agar	100g		122		YES
Amy Alcohol	200ml		122		YES
Acetone	420ml	Wards & / Carolina Biological	122		YES
Charcoal Activated	2 cans 1lb	Integrated coordinated science	122		YES
Chromatograhpy solvent	30ml x 2 120ml x2		122	74-6865	YES
Phenol Red	200ml x2		122		YES
Flame test kits (Carolina)	2boxes		128		YES
Paint thinner	1		3	Paint room	YES
Stain	5		3	Paint room	YES
Lacquer	4		3	Paint room	YES
Paint	1		3		YES

FSD Building List

Site ID	Site Name	Building ID	Building Name	Alt Bldg Name	Building #	Year Built	Category Name	Type Name	SF	# Stories	DSA #	Primary User	Global ID	Status
13415	CANOGA PARK SH	16579	Clrm Bldg #4	CLRM BLDG #4	030DCR	1968	Permanent	Permanent	18,419	2	28462	CANOGA PARK SH	B-16579	ACTIVE
13415	CANOGA PARK SH	17084	Clrm Bldg #3	CLRM BLDG #3	012BCP	1960	Permanent	Permanent	27,078	2	18146	CANOGA PARK SH	B-17084	ACTIVE
13415	CANOGA PARK SH	17088	Music	MUSIC	013DAP	1960	Permanent	Permanent	3,306	1	18146	CANOGA PARK SH	B-17088	ACTIVE
13415	CANOGA PARK SH	20210	Aa-293	AA-293	X0293L	1946	Portable	Bungalow	1,048	1	NO DSA AP	CANOGA PARK SH	B-20210	ACTIVE
13415	CANOGA PARK SH	20212	Livestock Shed 1	LIVESTOCK SHED 1	FB086W	1988	Portable	Storage (Portable)	362	0	NO DSA AP	CANOGA PARK SH	B-20212	ACTIVE
13415	CANOGA PARK SH	20284	Bleachers #1	BLEACHERS #1	019G0M	1951	Permanent	Bleachers	1,752	1	8430	CANOGA PARK SH	B-20284	ACTIVE
13415	CANOGA PARK SH	20291	Unit #1	UNIT #1	002DCT	1977	Permanent	Permanent	18,348	2	38446	CANOGA PARK SH	B-20291	ACTIVE
13415	CANOGA PARK SH	20570	A-797	A-797	A0797W	1986	Portable	Classroom (Portable)	864	1	47625	CANOGA PARK SH	B-20570	ACTIVE
13415	CANOGA PARK SH	20643	Bleachers #3	BLEACHERS #3	020G0M	1951	Permanent	Bleachers	2,013	1	8430	CANOGA PARK SH	B-20643	ACTIVE
13415	CANOGA PARK SH	20644	Bleachers #2	BLEACHERS #2	018G0M	1961	Permanent	Bleachers	1,777	1	21072	CANOGA PARK SH	B-20644	ACTIVE
13415	CANOGA PARK SH	20656	Bleachers #4	BLEACHERS #4	021G0P	1961	Permanent	Bleachers	3,332	1	21072	CANOGA PARK SH	B-20656	ACTIVE
13415	CANOGA PARK SH	20744	Parent Center	Classroom	026D0M	1950	Permanent	Permanent	861	1	7657	CANOGA PARK SH	B-20744	ACTIVE
13415	CANOGA PARK SH	20756	J-131	J-131	J0131M	1950	Portable	Sanitary (Portable)	846	1	7657	CANOGA PARK SH	B-20756	ACTIVE
13415	CANOGA PARK SH	20838	Chicken Shed	CHICKEN SHED	FB081W	1951	Portable	Storage (Portable)	343	0	NO DSA AP	CANOGA PARK SH	B-20838	ACTIVE
13415	CANOGA PARK SH	20915	A-795	A-795	A0795W	1986	Portable	Classroom (Portable)	884	1	47625	CANOGA PARK SH	B-20915	ACTIVE
13415	CANOGA PARK SH	20924	Announcer'S Booth	ANNOUNCER'S BOOTH	025D0P	1961	Permanent	Permanent	98	1	NO DSA	CANOGA PARK SH	B-20924	ACTIVE
13415	CANOGA PARK SH	20936	M-900	M-900	M0900S	1973	Portable	Storage (Portable)	360	1	NO DSA AP	CANOGA PARK SH	B-20936	ACTIVE
13415	CANOGA PARK SH	21149	Electric Shop	ELECTRIC SHOP	029DAR	1968	Permanent	Permanent	2,289	1	28462	CANOGA PARK SH	B-21149	ACTIVE
13415	CANOGA PARK SH	21266	Agriculture Unit	AGRICULTURE UNIT	022DAP	1962	Permanent	Permanent	1,349	1	21698	CANOGA PARK SH	B-21266	ACTIVE
13415	CANOGA PARK SH	21436	Tool Storage	TOOL STORAGE	015D0H	1934	Permanent	Permanent	253	1	NO DSA	CANOGA PARK SH	B-21436	ACTIVE
13415	CANOGA PARK SH	21454	A-564	A-564	A0564N	1950	Portable	Bungalow	871	1	8093	OWENSMOUTH HS	B-21454	ACTIVE
13415	CANOGA PARK SH	21455	J-120	J-120	J0120L	1949	Portable	Sanitary (Portable)	871	1	7200	CANOGA PARK SH	B-21455	ACTIVE
13415	CANOGA PARK SH	21461	Livestock Shed 2	LIVESTOCK SHED 2	FB087W	1988	Portable	Storage (Portable)	122	0	NO DSA AP	CANOGA PARK SH	B-21461	ACTIVE
13415	CANOGA PARK SH	21548	Storage Unit	STORAGE UNIT	027D0P		Permanent	Permanent	308	1		CANOGA PARK SH	B-21548	ACTIVE
13415	CANOGA PARK SH	22637	Cafeteria	CAFETERIA	006CAM	1954	Permanent	Permanent	12,859	2	10377	CANOGA PARK SH	B-22637	ACTIVE
13415	CANOGA PARK SH	23066	Unit #2	UNIT #2	031DCT	1977	Permanent	Permanent	29,540	2	38446	CANOGA PARK SH	B-23066	ACTIVE
13415	CANOGA PARK SH	23101	Aa-4152	AA-4152	X4152Z	2001	Portable	Classroom (Portable)	1,926	1	NO DSA AP	CANOGA PARK SH	B-23101	ACTIVE
13415	CANOGA PARK SH	23108	Clrm Bldg #2	CLRM BLDG #2	005BCN	1958	Permanent	Permanent	28,210	2	15533	CANOGA PARK SH	B-23108	ACTIVE
13415	CANOGA PARK SH	23125	J-219	J-219	J0219M	1953	Portable	Sanitary (Portable)	954	1	NO DSA AP	CANOGA PARK SH	B-23125	ACTIVE
13415	CANOGA PARK SH	23136	Flammable Stor. #2	FLAMMABLE STOR. #2	017B0P	1961	Permanent	Permanent	69	1	NO DSA	CANOGA PARK SH	B-23136	ACTIVE
13415	CANOGA PARK SH	23176	Storage Unit	STORAGE UNIT	028D0J	1939	Permanent	Permanent	385	1	NO DSA	CANOGA PARK SH	B-23176	ACTIVE
13415	CANOGA PARK SH	23246	Aa-2728	AA-2728	X2728S	1972	Portable	Bungalow	2,444	1	NO DSA AP	OWENSMOUTH HS	B-23246	ACTIVE
13415	CANOGA PARK SH	23325	Lath House 2	LATH HOUSE 2	0R0178		Permanent	Permanent	131	1		OWENSMOUTH HS	B-23325	ACTIVE
13415	CANOGA PARK SH	23378	Shop #2	SHOP #2	004CAN	1958	Permanent	Permanent	10,124	2	15533	CANOGA PARK SH	B-23378	ACTIVE
13415	CANOGA PARK SH	23422	Clrm Bldg #5	CLRM BLDG #5	007DAL	1948	Permanent	Permanent	1,493	1	6118	CANOGA PARK SH	B-23422	ACTIVE
13415	CANOGA PARK SH	23546	Boys' Physical Education	BOYS' PHYSICAL EDUCATI(	011BAN	1955	Permanent	Permanent	25,041	1	11529	CANOGA PARK SH	B-23546	ACTIVE
13415	CANOGA PARK SH	23631	Oral Arts Bldg	OAR	032DAT	1977	Permanent	Permanent	3,820	1	38446	CANOGA PARK SH	B-23631	ACTIVE
13415	CANOGA PARK SH	23749	Lath House 1	LATH HOUSE 1	023D0P	1962	Permanent	Permanent	1,369	1	21698	CANOGA PARK SH	B-23749	ACTIVE
13415	CANOGA PARK SH	23794	Green House	GREEN HOUSE	024SOP	1962	Permanent	Permanent	192	1	21698	CANOGA PARK SH	B-23794	ACTIVE
13415	CANOGA PARK SH	23795	Storage Unit	STORAGE UNIT	M1019W	1988	Portable	Storage (Portable)	191	1	NO DSA AP	CANOGA PARK SH	B-23795	ACTIVE
13415	CANOGA PARK SH	23803	Livestock Shed 3	LIVESTOCK SHED 3	FB082W	1988	Portable	Storage (Portable)	530	0	NO DSA AP	CANOGA PARK SH	B-23803	ACTIVE
13415	CANOGA PARK SH	23997	Aa-4150	AA-4150	X4150Z	2001	Portable	Classroom (Portable)	1,921	1	NO DSA AP	CANOGA PARK SH	B-23997	ACTIVE
13415	CANOGA PARK SH	24014	Girls' Gymnasium	GIRLS' GYMNASIUM	009DAG	1926	Permanent	Permanent	15,006	2	36985	CANOGA PARK SH	B-24014	ACTIVE
13415	CANOGA PARK SH	24018	Assembly Hall	ASSEMBLY HALL	003BAJ	1939	Permanent	Permanent	14,523	2	2315	CANOGA PARK SH	B-24018	ACTIVE
13415	CANOGA PARK SH	24143	Aa-324	AA-324	X0324L	1946	Portable	Bungalow	1,856	1	4856	CANOGA PARK SH	B-24143	ACTIVE
13415	CANOGA PARK SH	24183	Boiler Room	BOILER ROOM	001C0H	1930	Permanent	Permanent	2,635	1	NO DSA	CANOGA PARK SH	B-24183	ACTIVE
13415	CANOGA PARK SH	24193	Flammable Stor. #1	FLAMMABLE STOR. #1	016B0N	1953	Permanent	Permanent	64	1	NO DSA	CANOGA PARK SH	B-24193	ACTIVE
13415	CANOGA PARK SH	24253	Aa-290	AA-290	X0290L	1946	Portable	Bungalow	1,923	1	4362	CANOGA PARK SH	B-24253	ACTIVE

FSD Building List

13415	CANOGA PARK SH	24255	Aa-4151	AA-4151	X4151Z	2001	Portable	Classroom (Portable)	1,919	1	NO DSA AP	CANOGA PARK SH	B-24255	ACTIVE
13415	CANOGA PARK SH	24268	Shop	Weight Room	008CAF	1924	Permanent	Permanent	4,989	2	434	CANOGA PARK SH	B-24268	ACTIVE
13415	CANOGA PARK SH	24283	Aa-1757	AA-1757	X1757N	1957	Portable	Bungalow	2,640	1	16341	CANOGA PARK SH	B-24283	ACTIVE
13415	CANOGA PARK SH	24423	Aa-396	AA-396	X0396L	1948	Portable	Bungalow	1,877	1	6003	CANOGA PARK SH	B-24423	ACTIVE
13415	CANOGA PARK SH	24446	Ticket Booth	TICKET BOOTH	T0019W	1976	Portable	Service (Portable)	44	1	NO DSA AP	CANOGA PARK SH	B-24446	ACTIVE
13415	CANOGA PARK SH	25651	J-112	J-112	J0112L	1949	Portable	Sanitary (Portable)	933	1	7090	CANOGA PARK SH	B-25651	ACTIVE
13415	CANOGA PARK SH	25655	A-796	A-796	A0796W	1986	Portable	Classroom (Portable)	932	1	47625	CANOGA PARK SH	B-25655	ACTIVE
13415	CANOGA PARK SH	26267	Storage Unit	STORAGE UNIT	014D0P	1960	Permanent	Permanent	914	1	NO DSA	CANOGA PARK SH	B-26267	ACTIVE
13415	CANOGA PARK SH	26321	A-798	A-798	A0798W	1986	Portable	Classroom (Portable)	910	1	47625	CANOGA PARK SH	B-26321	ACTIVE
13415	CANOGA PARK SH	36462	Lunch Pavilion	LUNCH PAVILION			Permanent	Lunch Pavilion	8,122	0		CANOGA PARK SH	B-36462	ACTIVE
13415	CANOGA PARK SH	36482	Transportation Bldg	TRANSPORTATION BLDG			Portable	Bungalow	832	1	NO DSA AP	CANOGA PARK SH	B-36482	ACTIVE
13415	CANOGA PARK SH	36483	Storage Bldg #1	STORAGE BLDG #1			Portable	Storage (Portable)	540	1	NO DSA AP	CANOGA PARK SH	B-36483	ACTIVE
13415	CANOGA PARK SH	38823	Arcade #1	ARCADE #1			Permanent	Arcade	1,500	0		CANOGA PARK SH	B-38823	ACTIVE
13415	CANOGA PARK SH	38826	Arcade #2	ARCADE #2			Permanent	Arcade	2,675	0		CANOGA PARK SH	B-38826	ACTIVE
13415	CANOGA PARK SH	38827	Arcade #3	ARCADE #3			Permanent	Arcade	1,102	0		CANOGA PARK SH	B-38827	ACTIVE
13415	CANOGA PARK SH	38828	Arcade #4	ARCADE #4			Permanent	Arcade	2,333	0		CANOGA PARK SH	B-38828	ACTIVE
13415	CANOGA PARK SH	38829	Arcade #5	ARCADE #5			Permanent	Arcade	2,700	0		CANOGA PARK SH	B-38829	ACTIVE
13415	CANOGA PARK SH	38842	Arcade #6	ARCADE #6			Permanent	Arcade	172	0		CANOGA PARK SH	B-38842	ACTIVE
13415	CANOGA PARK SH	38843	Relocatable Storage # 1	RELOCATABLE STORAGE # 1			Portable	Container	160	0		CANOGA PARK SH	B-38843	ACTIVE
13415	CANOGA PARK SH	38844	Relocatable Storage # 2	RELOCATABLE STORAGE # 2			Portable	Container	240	0		CANOGA PARK SH	B-38844	ACTIVE
13415	CANOGA PARK SH	38845	Relocatable Storage # 3	RELOCATABLE STORAGE # 3			Portable	Container	160	0		CANOGA PARK SH	B-38845	ACTIVE
13415	CANOGA PARK SH	38846	Red Cross	RED CROSS			Portable	Container	160	1		CANOGA PARK SH	B-38846	ACTIVE
13415	CANOGA PARK SH	38848	Mechanical Room	MECHANICAL ROOM			Permanent	Enclosure	616	1		CANOGA PARK SH	B-38848	ACTIVE
13415	CANOGA PARK SH	38849	Green House	GREEN HOUSE			Permanent	Permanent	1,764	1		CANOGA PARK SH	B-38849	ACTIVE
13415	CANOGA PARK SH	38850	Feed Area	FEED AREA			Permanent	Permanent	585	0		CANOGA PARK SH	B-38850	ACTIVE
13415	CANOGA PARK SH	38851	Relocatable Storage # 4	RELOCATABLE STORAGE # 4			Portable	Storage (Portable)	160	0	NO DSA AP	CANOGA PARK SH	B-38851	ACTIVE
13415	CANOGA PARK SH	38852	Relocatable Storage # 5	RELOCATABLE STORAGE # 5			Portable	Container	160	0		CANOGA PARK SH	B-38852	ACTIVE
13415	CANOGA PARK SH	38853	Storage Bldg #2	STORAGE BLDG #2			Permanent	Permanent	800	1		CANOGA PARK SH	B-38853	ACTIVE
13415	CANOGA PARK SH	38854	Relocatable Storage # 6	RELOCATABLE STORAGE # 6			Portable	Container	160	0		CANOGA PARK SH	B-38854	ACTIVE
13415	CANOGA PARK SH	38855	Arcade #7	ARCADE #7			Permanent	Arcade	1,378	0		CANOGA PARK SH	B-38855	ACTIVE
13415	CANOGA PARK SH	38856	Ticket Booth	TICKET BOOTH			Portable	Service (Portable)	44	1	NO DSA AP	CANOGA PARK SH	B-38856	ACTIVE
13415	CANOGA PARK SH	51327	Arcade #8	ARCADE #8			Permanent	Arcade	1,852	0		CANOGA PARK SH	B-51327	ACTIVE
13415	CANOGA PARK SH	62250	Shade Struc #1	SHADE STRUC #1			Permanent	Shade Structure - Fabr	648	0		OWENSMOUTH HS	B-62250	ACTIVE

JORDAN STREET

JORDAN STREET

HART STREET

TOPANGA CANYON BLVD

A.C

AC

BLEACHERS #4 -219-P

TURF

95' EASEMENT BELL CREEK FLOOD CONTROL CHANNEL

60' EASEMENT CALABAS CREEK FLOOD CONTROL CHANNEL

AA-2728 X-2285

AA-1532 X-1532 N

AA-1757 X-1757

A-322 A-3220

A-295 A-295H

A-210 A-210F

B-9 B-9F

AA-2493 X-2493P

A-319 A-319G

A-454 A-454E

J-112 J-112L

FIELD STORAGE 250-U

LAWN

AC PLAY AREA

LAWN

AA-289 X-289

TOOL STOR. -15D-H

STORAGE #2 -140-P

DG

K-39

K-39B

AC

-16B-N

-17B-P

FLAMMABLE STORAGE

AC

REMOVE & RELOCATE EXIST. GATE AS SHOWN ON SHT. A-43

STORAGE UNIT -31D-S

A.C.

SHOP ELECT. SHOP

BLEACHERS #1 -196-M

BLEACHERS #2 -186-P ANNOUNCER'S BOOTH

BLEACHERS #3 -206-M

J-131 J-131M

A-564 A-564N

AA-955 X-955 M

A-491 A-491L

REMOVE A.C. FOR NEW SUB-STA. SEE SH. A-43

AC

J-219 J-219M

LATH HOUSE -23D-P

AGR. UNIT -22D-P

-24S-P GREEN HOUSE

LAWN

-27D-R STORAGE UNIT

GARDEN AREA

COMP BINS

DG

AA-324 X-324L

DG

AA-290 X-290L

LAWN

AC

LAWN

LAWN

LAWN

CLASSROOM #4 -30D-R

PLANTING AREA

BOYS PHYSICAL EDUCATION

TENNIS COURT

SHOP

CLASSR'M BLDG #5

COVERED LUNCH AREA

CAFETERIA

REMOVE(A.C. PAVEMENT)

REMOVE BARRICADE UPON COMPLETION OF WORK

REMOVE EARTH BERM

BOILER ROOM

CLASSROOM BLDG #2

SHOP #2

REMOVE EXIST. BENCHES AND PATCH CONC.

NEW BLDG HIGH SOLID PLYWOOD BARRICADE

MUSIC

REMOVE EXIST. DEAD TREE

PIPES REMAIN

REMOVE BARRICADE UPON COMPLETION OF WORK

REMOVE CONC. CURB

NEW BLDG PAD

REMOVE & REPLACE LANDINGS - STEPS REMAIN - SEE SH. C-1

REMOVE (EXIST. A.C. PAVING)

(VALVE & V.B.) REMAIN

(C.C.) REMAINS

REMOVE (C.C. LANDING)

G-32

G-32E

ASSEMBLY HALL

4" REMAINS

201.39 E.P.F.E.

NEW BLDG. PAD.

REMOVE (EXIST. PIPE)

4" REMAINS

(C.C.) REMAINS

STEPS & PLATFORM REMAIN

EXIST. CONC. WALK

REMOVE (6")

RETURN EXIST. CHAIN LINK FENCE

EXISTING FENCE TO REMAIN TO HERE

REMOVE (C.C. WALK) SEE NOTE 3 AC-1

REMOVE (EXIST. CULVERT, C.B. & TREE)

OWEN STREET

(VAULTS) REMAIN

CATCH BASIN & DRAINS REMAIN PROVIDE TEMPORARY 20' LONG SLIDING GATE

CONTRACTOR MAY USE EXIST. CHAIN LINK FENCE FOR BARRICADE. REMOVE BARRICADE AT THE END OF CONSTRUCTION

(6" DRAIN) REMAINS

REMOVE EXIST. CHAIN LINK FENCE & GATE

FOR SHADED AREAS SEE NOTE NO. 3. THIS SHEET

MECHANICAL ART

GIRL'S GYMNASIUM

CLASSROOM BLDG #3

NEW CONC. CURB

REMOVE CONC. CURB

BLDG. PAD

NEW CONC. CURB TO MATCH EXIST.

NEW BUILDING PAD

FENCE TO REMAIN

RELOCATE SCHOOL SIGN AS SHOWN ON SHT. A-1

REMOVE BARRICADE UPON COMPLETION OF WORK

GATE

REMOVE C.B. & CAP PIPE

SIDEWALK

REMOVE EXISTING FLAG POLE & FOOTING. FLAG POLE SHALL BE TURNED OVER TO SCHOOL DISTRICT IN GOOD CONDITION.

EASEMENT TO L.A. CO FLOOD CONTROL DISTRICT

NOTE:
PORTION OF CALABASAS CREEK SHALL BE PAVED UNDER PERMIT NO. 74716-B OBTAINED FROM COUNTY FLOOD CONTROL DISTRICT - THIS WORK SHALL BE DONE BY LOS ANGELES CITY - UNIFIED SCHOOL DISTRICT.

LEGEND

- EXISTING BUILDINGS
- BUILDING PAD FOR NEW BUILDINGS
- EXISTING WOOD FRAME PORTABLE BUILDING TO BE DEMOLISHED
- EXISTING PAVING TO BE REMOVED
- EXISTING BARRICADE
- NEW CHAIN LINK BARRICADE
- NEW 8' HIGH SOLID PLYWD. BARRICADE
- EXISTING TREE TO REMAIN
- EXISTING TREE TO BE REMOVED

NOTES (CONT.)

6. AFTER COMPLETION OF UNITS A, B & C REMOVE BARRICADE AS NOTED
7. ALL EXCAVATIONS OUTSIDE THE BARRICATED AREAS SHALL BE SCHEDULED TO BE PERFORMED DURING SCHOOL VACATION PERIODS WHEN POSSIBLE
8. STUDENT ACCESS ACROSS EXCAVATIONS SHALL BE ESTABLISHED AND APPROVED BY THE SCHOOL PRINCIPAL AND THE DISTRICT INSPECTOR PRIOR TO ANY EXCAVATIONS.
9. EXCAVATIONS SHALL BE BARRICADED PRIOR TO START OF EXCAVATIONS.
10. PROVIDE CONTINUOUS BARRICADES TO COMPLETELY ENCLOSE EXCAVATIONS AND THEY SHALL REMAIN UNTIL THE INVOLVED WORK IS COMPLETED.
11. BACKFILLING AND PAVING SHALL BE COMPLETED WITHIN 14 CALENDAR DAYS FROM START OF EXCAVATION.
12. PROVIDE SAFE, SECURE WALKWAYS WITH GUARD RAILS ACROSS EXCAVATIONS TO MAINTAIN STUDENT TRAFFIC CIRCULATION.
13. SEE SH. C-1 FOR REMOVAL OF PORTIONS OF PUBLIC WALK AND CURB TO INSTALL NEW SIDEWALK CULVERTS.

N SCALE: 1" = 40'

NOTES

1. BUILDINGS TO BE DEMOLISHED SHALL BE DEMOLISHED AFTER NEW BUILDINGS (UNITS A, B, & C) BECOME AVAILABLE FOR OCCUPANCY. MAINTAIN EXISTING UTILITY SERVICE TO OTHER BLDGS
2. BLDGS TO BE DEMOLISHED SHALL BE REMOVED DOWN TO BOTTOM OF FOOTINGS INCLUDING ALL APPURTENANCES TO THE BUILDING. REMOVE & CAP OFF ALL PIPES & CONDUIT DOWN TO BELOW GRADE. PATCH WITH A.C PAVING WITHIN PERIMETER OF DEMOLISHED BLDG & PATCH ANY PAVING DAMAGED DURING DEMOLITION.
3. SHADED PORTIONS OF PLAN DENOTE WORK & BARRICADE TO BE PERFORMED AFTER UNITS A, B, & C ARE AVAILABLE FOR OCCUPANCY & NEW WALKS ARE CONSTRUCTED. BEFORE COMMENCING WORK IN SHADED PORTION REMOVE BARRICADE AS REQ'D. TO PERMIT ACCESS BY STUDENTS TO COMPLETED PORTIONS. UPON COMPLETION OF ALL WORK REMOVE REMAINING BARRICADES.
4. AS-BUILT
5. CONTRACTOR SHALL PROTECT ALL EXIST TREES TO REMAIN. LEAVE EARTH AROUND TREE FOR A 4 FOOT RADIUS WHERE POSSIBLE.

8571.00
8E 1.00

APPROVED
DEC 5 1975
STATE FIRE MARSHAL
SOUTHERN REGION

STATE OF CALIFORNIA - DEPARTMENT OF GENERAL SERVICES
OFFICE OF ARCHITECTURE AND CONSTRUCTION
88446 APPROVED DEC 5 1975

REVISIONS

NO.	DATE	DESCRIPTION	BY
1	6-27-75	100% SUBMITTAL - BID DOCUMENTS	
2	12-2-75		

H. WENDELL MOUNCE A.I.A. & ASSOCIATES
ARCHITECTURE PLANNING INTERIORS
3300 TEMPLE STREET, LOS ANGELES, CALIFORNIA 90026 (213) 385-7371

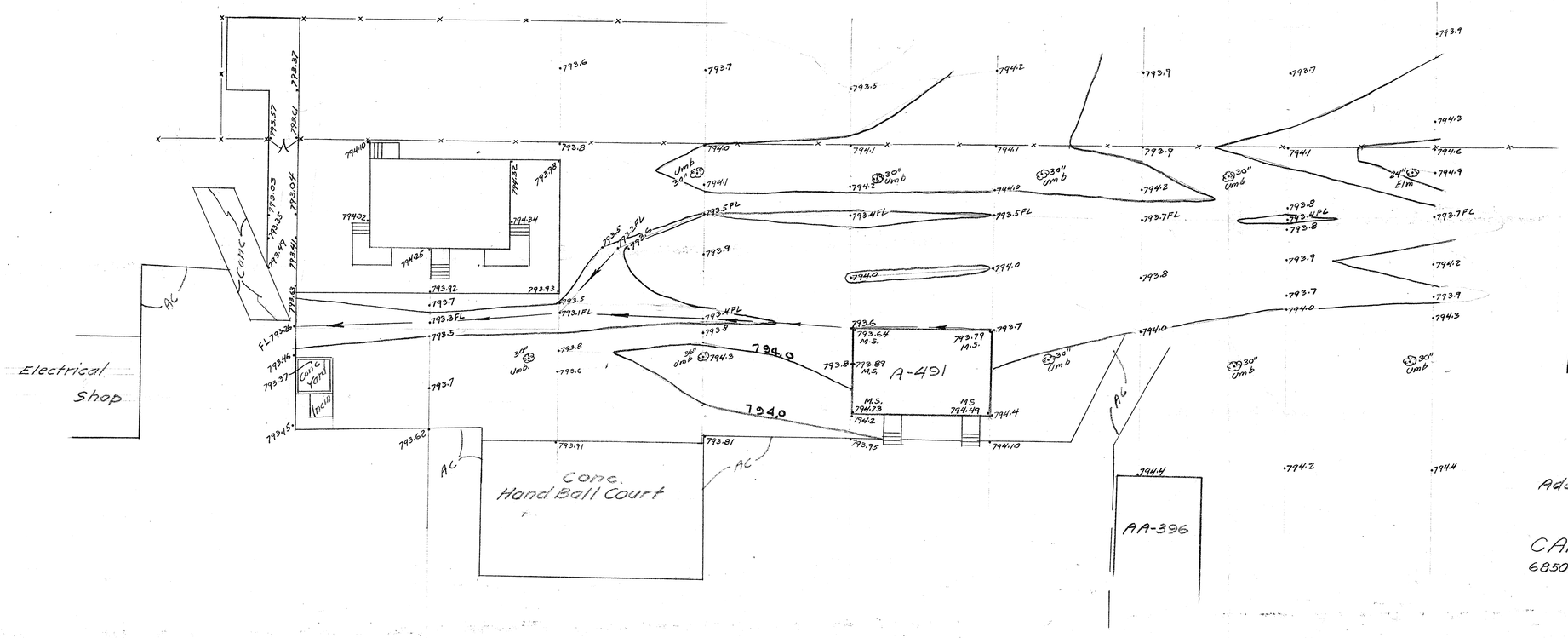
DATE 73-45
CODE
DRAWN BY STEVE
CHECKED BY

ADMINISTRATION - LIBRARY - CLASSROOM BLDG
CRAFTS AND STAGECRAFT BLDG
CANOGA PARK HIGH SCHOOL
6300 TOPANGA CANYON BOULEVARD CANOGA PARK, CALIF. 91307

PREPARED FOR THE BOARD OF EDUCATION
LOS ANGELES CITY UNIFIED SCHOOL DISTRICT
LOS ANGELES, CALIFORNIA
DAVID SPEZIALE, PRESIDENT
WILLIAM ORTEGA, VICE PRESIDENT
ROBERT ALVARADO, JR.
JULIAN C. DIXON
ROBERT HILL
WILLIAM MATSUDA
ROY ROMER
RICHARD TAMAYO
DR. JOSEPH P. TAFOYA, SECRETARY
DR. RICHARD R. CARPENTER, SUPERINTENDENT

DEMOLITION PLAN

SHEET NUMBER
DA-1



N

SCALE: 1" = 20'

Additional Topography

CANOGA PARK HIGH SCHOOL

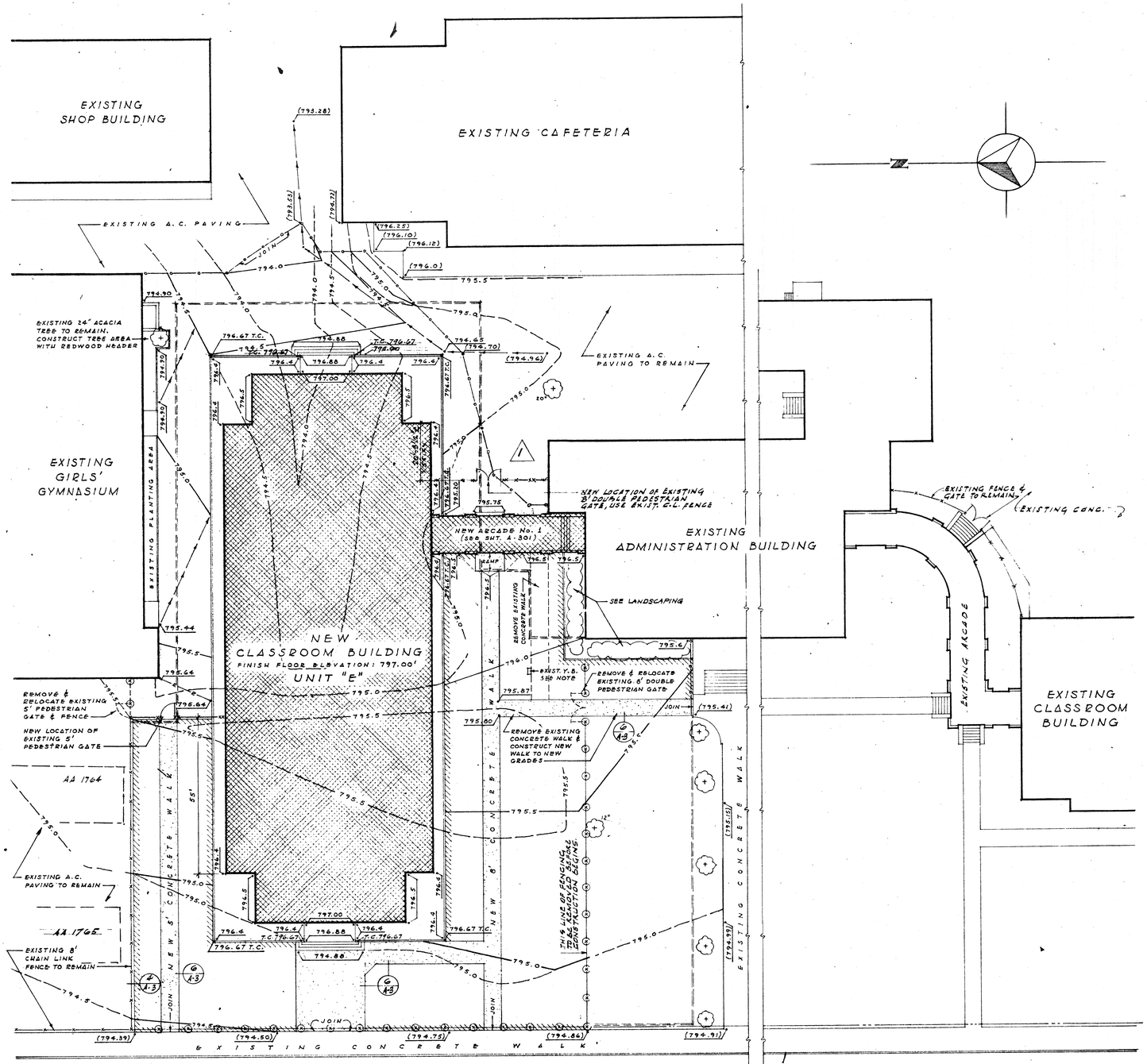
6850 Topanga Canyon Blvd, Canoga Pk, Calif.

Nickoloff 5-23-50

8571.00.019

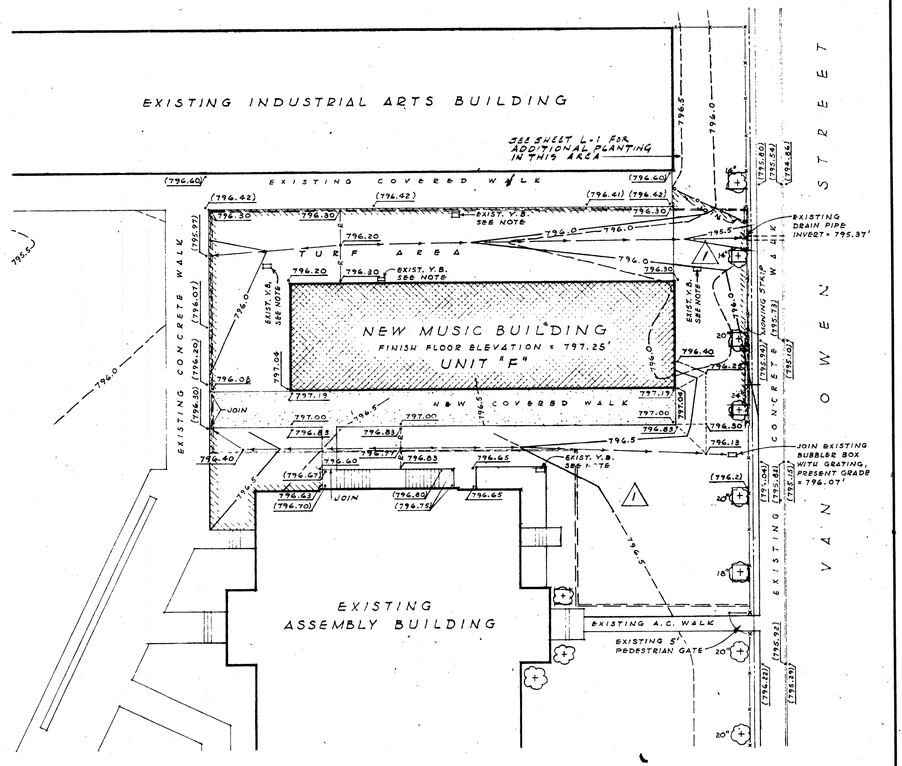
Dwg. No GR-34 sht 1A

CM-9



PARTIAL PLOT PLAN AT NEW CLASSROOM BUILDING

SCALE: 1" = 20'-0"



PARTIAL PLOT PLAN AT NEW MUSIC BUILDING

SCALE: 1" = 20'-0"

LEGEND

- EXISTING GRADE CONTOUR
- FINISH GRADE CONTOUR
- EXISTING CHAIN LINK FENCE
- CHAIN LINK FENCE TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED.
- RELOCATED CHAIN LINK FENCE
- PROPERTY LINE
- GRADING LIMITS; & JOIN EXISTING A.C. PAVING TO NEW A.C., PROVIDE SEAL @ JOINT.
- RIDGE LINE
- FLOW LINE
- NEW TURF AREA
- NEW CONCRETE WALKS
- NEW CONSTRUCTION
- NEW A.C. PAVING, 2" THICK
- (000.00) EXISTING GRADES
- 000.00 NEW FINISH GRADES
- Y.B. ---- YARD BOX
- T.C. ---- TOP OF CURB
- ---- EXISTING TREES TO REMAIN
- XXX NEW CHAIN LINK FENCING
- BARRICADE - SEE SPECS. 6'-0" CHAIN LINK FENCE.

NOTES

1. BENCH MARK = L. & T. IN BOTTOM STEP AT WEST END OF STEPS, NORTH ENTRANCE TO ADMINISTRATION BUILDING = 795.87'
2. ADJUST EXISTING YARD BOXES TO NEW FINISH GRADES.
3. ALL EXISTING CHAIN LINK FENCE THAT IS REMOVED AND NOT RELOCATED SHALL REMAIN THE PROPERTY OF THE DISTRICT.
4. REMOVE ALL EXISTING A.C. PAVING, CONCRETE WALKS & PAVING, PLANTINGS, BUILDINGS, ETC., WITHIN THE GRADING LIMITS AROUND THE MUSIC BUILDING, UNIT "F" AND THE CLASSROOM BUILDING, UNIT "E", UNLESS OTHERWISE NOTED TO REMAIN.
5. FOR PLANTING AREAS, TURF, SPRINKLERS, ETC. SEE LANDSCAPING SHEETS L1 & L2.

CORRECTED AS BUILT 7-1-60

NEW CLASSROOM BUILDING—MUSIC BUILDING AND CONNECTING ARCADES

CANOGA PARK HIGH SCHOOL 6850 TOPANGA CANYON BLVD. CANOGA PARK, CALIFORNIA

ROPP AND ROPP
STRUCTURAL ENGINEERS
2405 WEST 3RD STREET
LOS ANGELES 57, CALIF.

LESTER R. KELLY
MECHANICAL ENGINEER
2410 WEST 3RD STREET
LOS ANGELES 57, CALIF.

HILBURG AND TURPIN
ELECTRICAL ENGINEERS
227 SOUTH SPRING STREET
LOS ANGELES 12, CALIF.

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ARCHITECTURE

APPLICATION NO. 18116

APPROVED APR 2 - 1959

SUPERVISING STRUCTURAL ENGINEER

ARCHITECT

STRUCTURAL ENGINEER

PARTIAL SITE GRADING & LOCATION PLANS

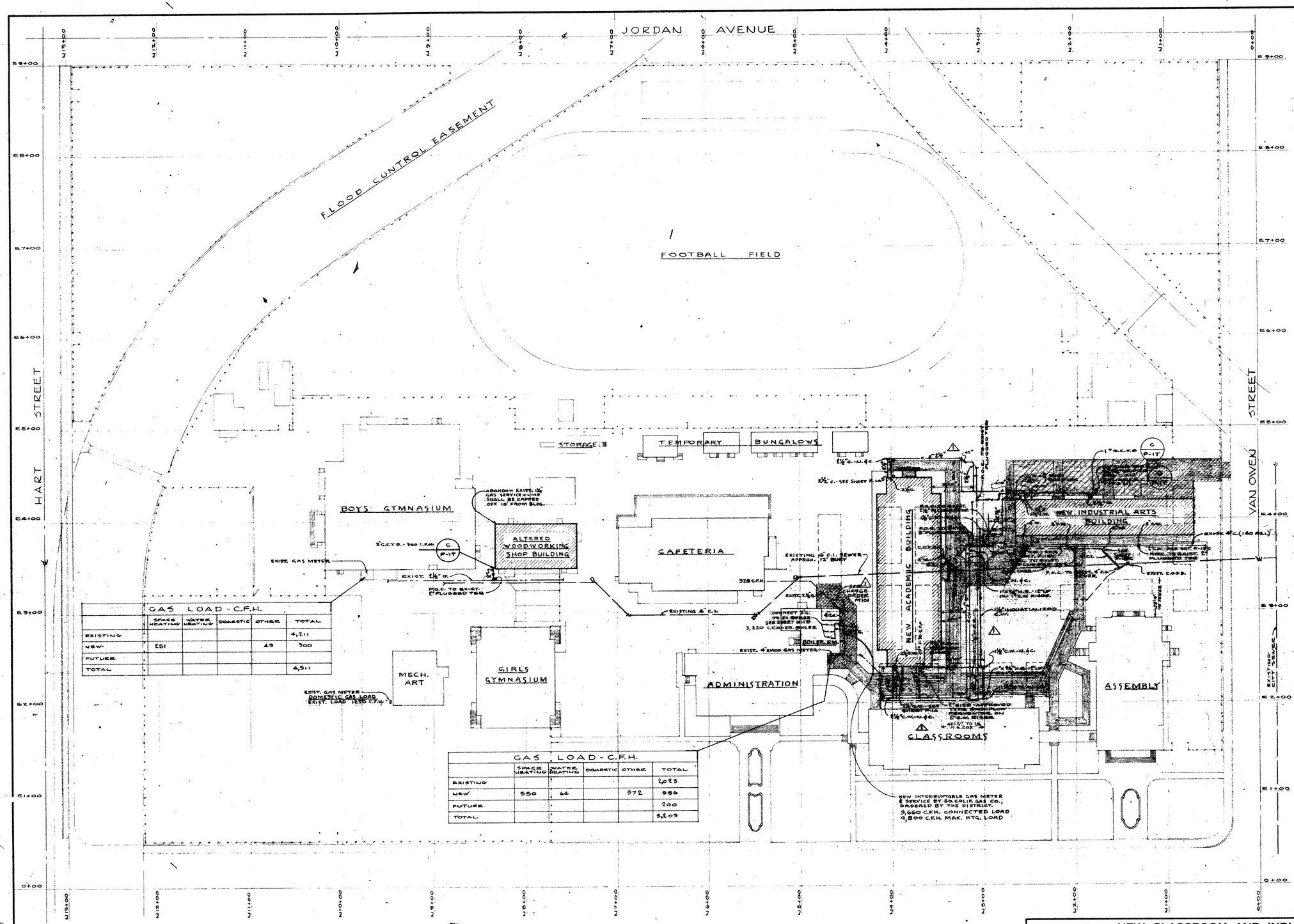
BALCH · BRYAN · PERKINS · HUTCHASON
2933 ROWENA AVE. LOS ANGELES 39 NORMANDY 4-1933

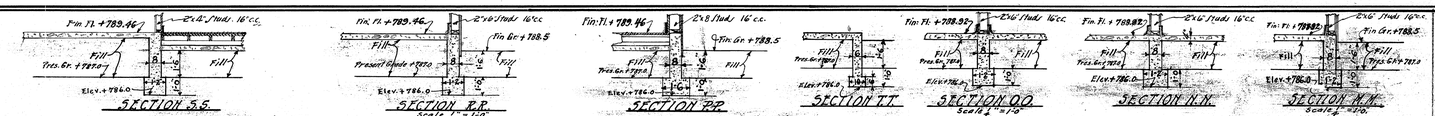
WM. GLENN BALCH, ARCHITECT
JOHN L. PERKINS, ARCHITECT
LOUIS L. BRYAN
W. K. HUTCHASON, ARCHITECT

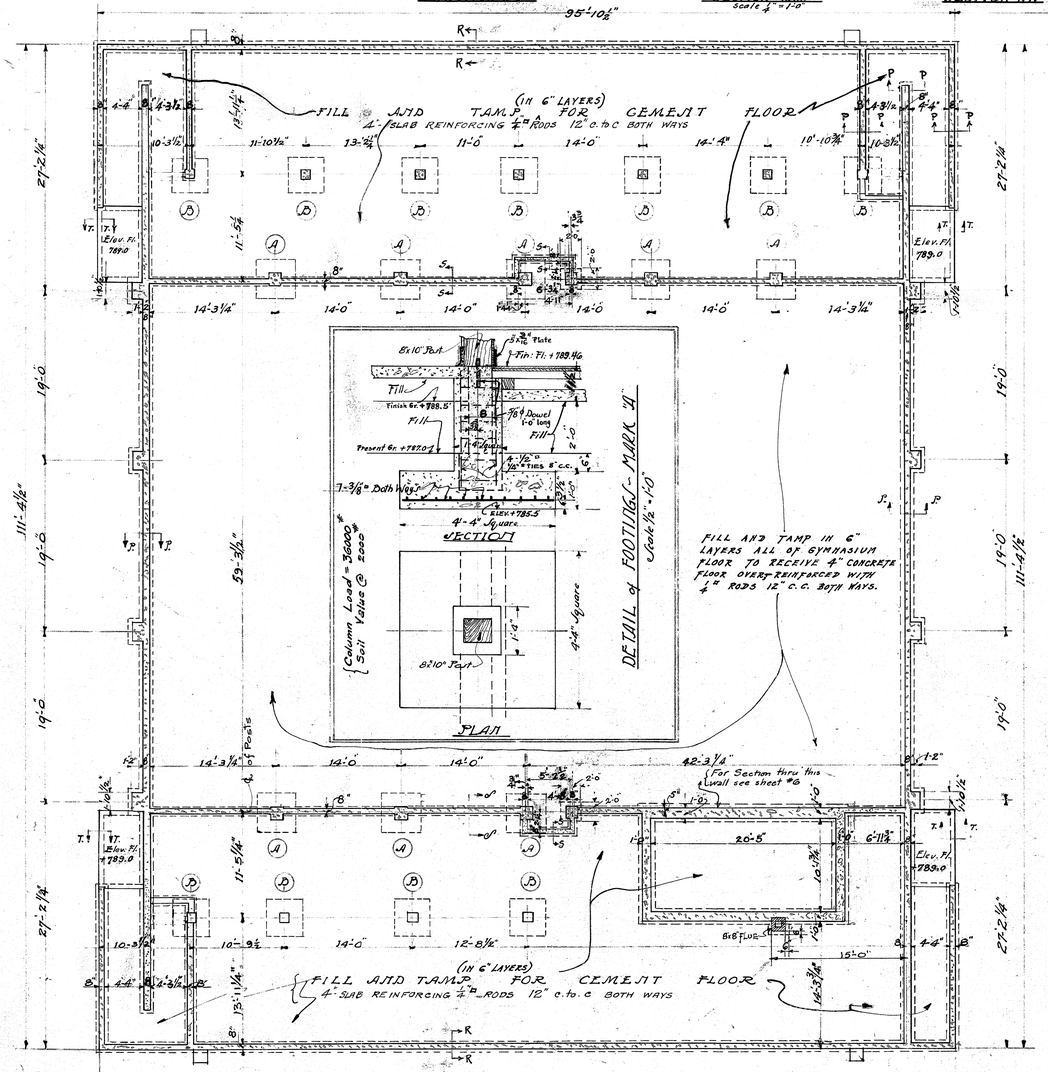
PREPARED FOR THE
BOARD OF EDUCATION
LOS ANGELES CITY HIGH SCHOOL DISTRICT

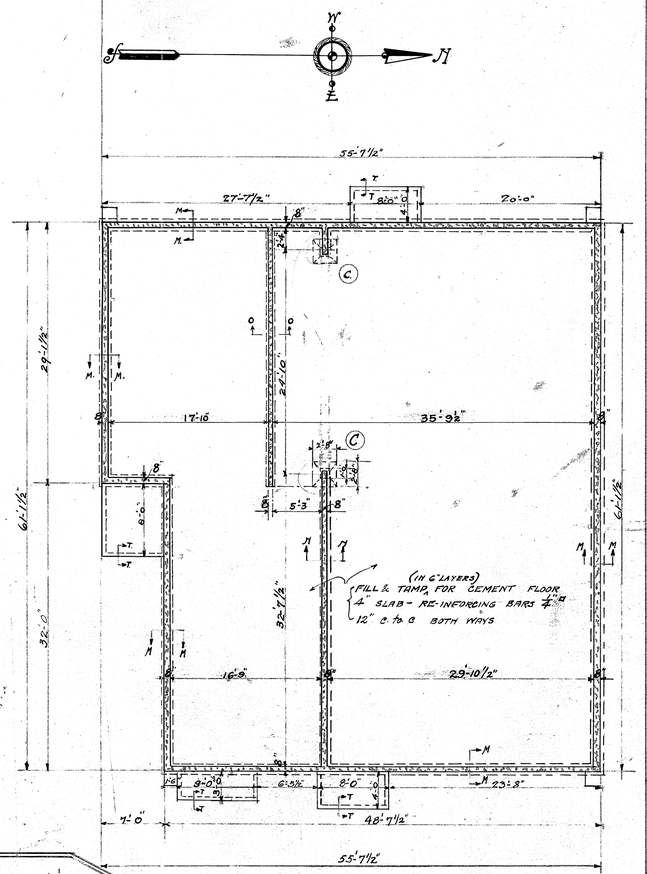
DATE 4-2-59
JOB NO. 589
SHEET NO. A-2
S. O. 2

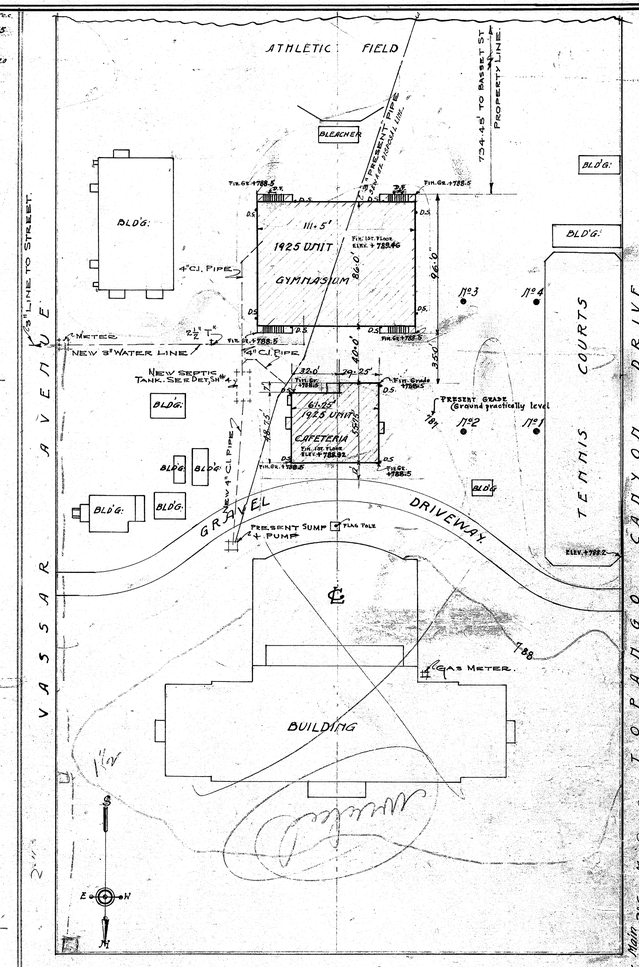
8571.00 [redacted] XX-13

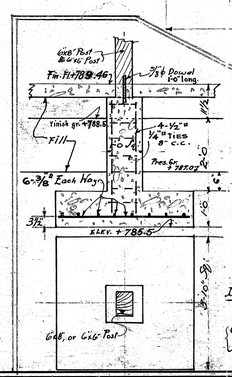

JORDAN AVENUE
FLOOD CONTROL EASEMENT
FOOTBALL FIELD
HART STREET
VAN OWEN STREET
BOYS GYMNASIUM
ABANDON EXIST. 1½" GAS SERVICE-LINE SHALL BE CAPPED OFF 10' FROM BLDG.
ALTERED WOODWORKING SHOP BUILDING
EXIST. GAS METER
EXIST. 1½" G.
PROV. TO EXIST. 2" PLUGGED TEE
2" G.C.V.B. - 300 C.F.H.
C P-1T
CAFETERIA
EXISTING 6" C.I. SEWER APPROX. 12' DEEP
EXISTING 4" C.I.
328 C.F.H.
SEWER CROSSES MAIN
CONNECT 3/4" TO EXIST. BOILER SEE SHEET M-1.0
3,220 C.F.H. PER BOILER
BOILER, TYP.
EXIST. 4" SM100 GAS METER
STORAGE
TEMPORARY BUNGALOWS
1½" G.C.V.B.
1½" G.-N.-4"C.
2½" G.-SEE SHEET P-1.4
NEW INDUSTRIAL ARTS BUILDING
NEW ACADEMIC BUILDING
EXIST. 4"C. (140 PUPILS)
EXIST. 6" G.C.V.B.
1½" INDUSTRIAL GAS
1½" G.M.-N.-4"C.
1½" G.-N.-4"C.
1½" G.-N.-4"C.
1½" G

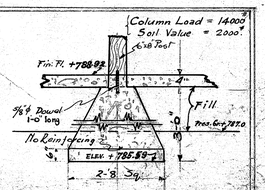












TEST BORES 1914-23-4
April 1916

BENCH MARK:- Northwest corner surface of tennis-court elevation +788.2

8571.03

CANOGA PARK HIGH

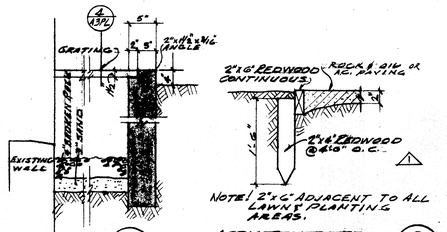
PLOT PLAN & FOUNDATION PLANS
GYMNASIUM & CAFETERIA
OWENSMOUTH H'GH SCHOOL
OWENSMOUTH CAL.

PLANS PREPARED BY BUSINESS DEPARTMENT
BOARD OF EDUCATION
CITY HIGH SCHOOL DIST.
OF LOS ANGELES COUNTY

APPROVED
Susan M. Dorsey
SUPT.
BUSINESS MGR.

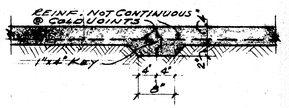
DRAWN M.W.
TRACED I.C.K.
CHECKED T.B.L.

SCALE
DATE 3-27-25
JOB NO. 30317
SHEET NO. 1

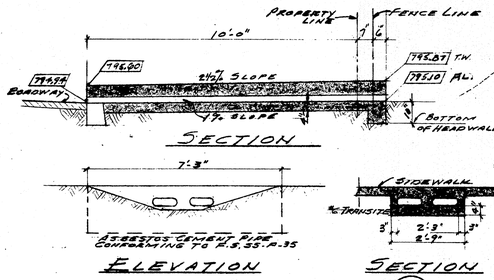


AREAWAY Scale ½"=1'-0" (2)

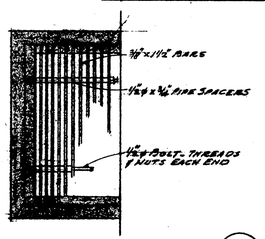
ASPH. CONCRETE PAVEMENT EDGING Scale ½"=1'-0" (1)



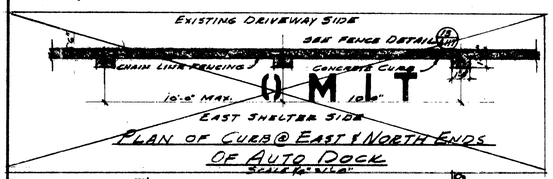
TYPICAL CONST. JOINT (3) Scale ½"=1'-0"

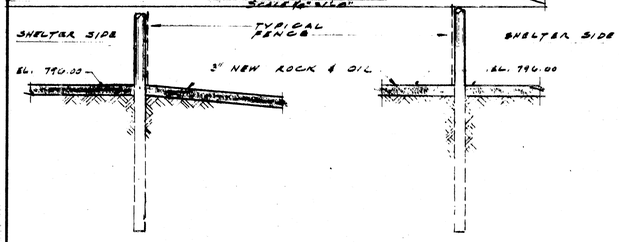


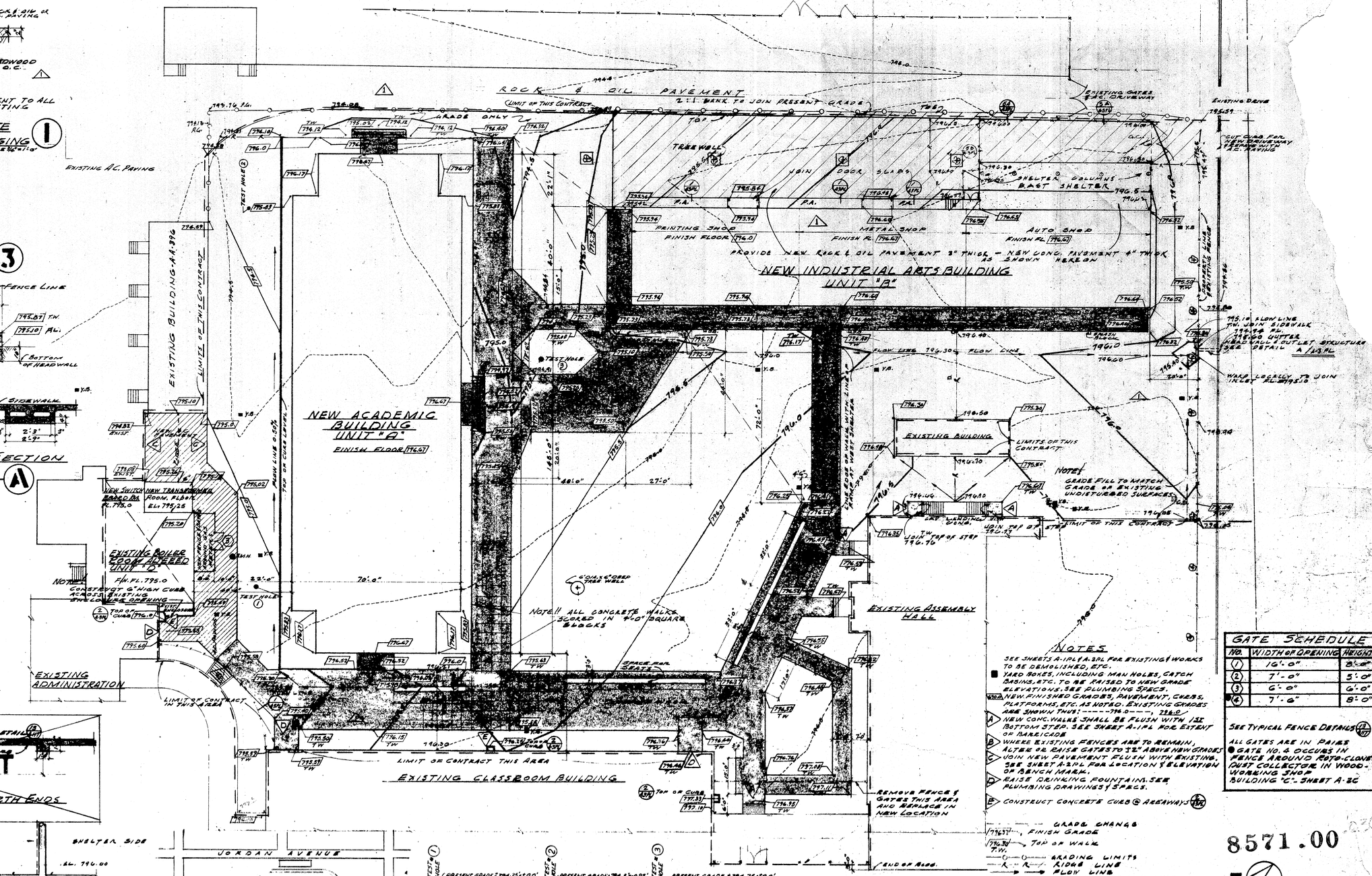
HEAD WALL (A)



GRATING DETAIL (4) No Scale







GATE SCHEDULE

NO.	WIDTH OF OPENING	HEIGHT
1	16'-0"	8'-0"
2	7'-0"	5'-0"
3	6'-0"	6'-0"
4	7'-6"	8'-0"

See Typical Fence Details (12/177)

ALL GATES ARE IN PAIRS
● GATE NO. 4 OCCURS IN FENCE AROUND ROTO-CLONE DUST COLLECTOR IN WOOD-WORKING SHOP BUILDING "C". SHEET A-2C

NOTES.

SEE SHEETS A-1PL & A-3PL FOR EXISTING WORKS TO BE DEMOLISHED, ETC.

■ YARD BOXES, INCLUDING MAN HOLES, CATCH BASINS, ETC. TO BE RAISED TO NEW GRADE ELEVATIONS. SEE PLUMBING SPECS.

NEW FINISHED GRADES, PAVEMENT, CURBS, PLATFORMS, ETC. AS NOTED. EXISTING GRADES ARE SHOWN THUS: ------796.0------, 796.0

(A) NEW CONC. WALKS SHALL BE FLUSH WITH 1/2" BOTTOM STEP. SEE SHEET A-1PL FOR EXTENT OF BARRICADE

(B) WHERE EXISTING FENCES ARE TO REMAIN, ALTER OR RAISE GATES TO 3" ABOVE NEW GRADES

(C) JOIN NEW PAVEMENT FLUSH WITH EXISTING. SEE SHEET A-3PL FOR LOCATION & ELEVATION OF BENCH MARK.

(D) RAISE DRINKING FOUNTAIN. SEE PLUMBING DRAWINGS & SPECS.

(E) CONSTRUCT CONCRETE CURB @ AREAWAYS (1/2 MK)

796.57 — GRADE CHANGE
796.30 T.W. — FINISH GRADE
— TOP OF WALK
— GRADING LIMITS
— RIDGE LINE
— FLOW LINE
— ROCK & OIL 3" PAVEMENT
— CONCRETE PAVEMENT

△ INDICATES "AS BUILT"

8571.00

SCALE 1"=20' & AS NOTED

NEW CLASSROOM AND INDUSTRIAL ARTS BUILDINGS AND ALTERATIONS TO SHOP BUILDING

CANOGA PARK HIGH SCHOOL 6850 TOPANGA CANYON BLVD., CANOGA PARK, CALIFORNIA

ROPP AND ROPP STRUCTURAL ENGINEERS
5409 WEST 3RD STREET
LOS ANGELES 57, CALIF.

LESTER R. KELLY MECHANICAL ENGINEER
5410 WEST 3RD STREET
LOS ANGELES 57, CALIF.

EDW. C. SYLVANUS ELECTRICAL ENGINEER
1737 SILVER LAKE BLVD.
LOS ANGELES 26, CALIF.

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ARCHITECTURE
APPLICATION NO. 13538
MAY 14 1957
APPROVED
SUPERVISING STRUCTURAL ENGINEER
ARCHITECT
STRUCTURAL ENGINEER

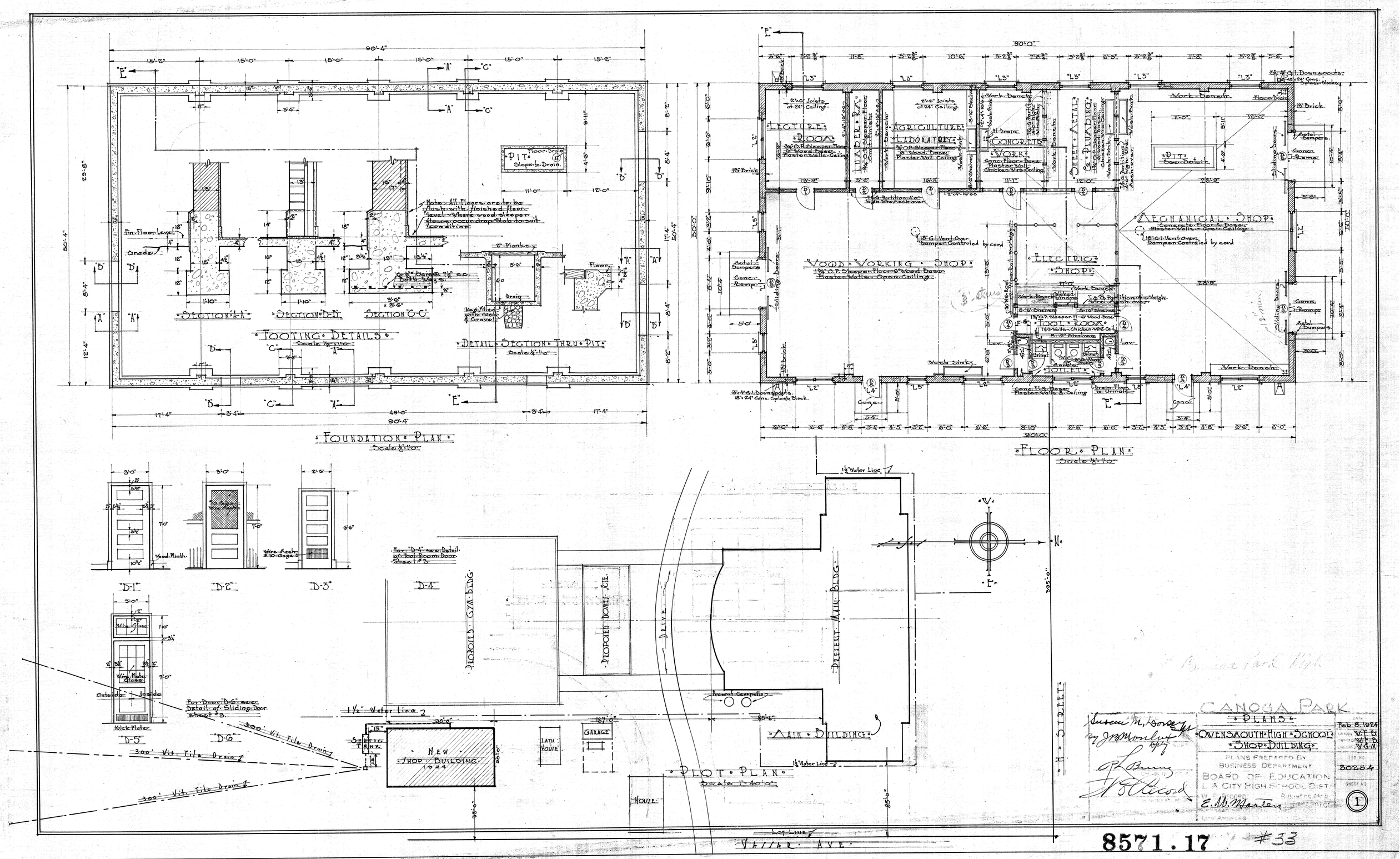
SITE PLAN
FINISH GRADING PLAN

BALCH · BRYAN · PERKINS · HUTCHASON
2933 ROWENA AVE. LOS ANGELES 39 NORMANDY 4-1933

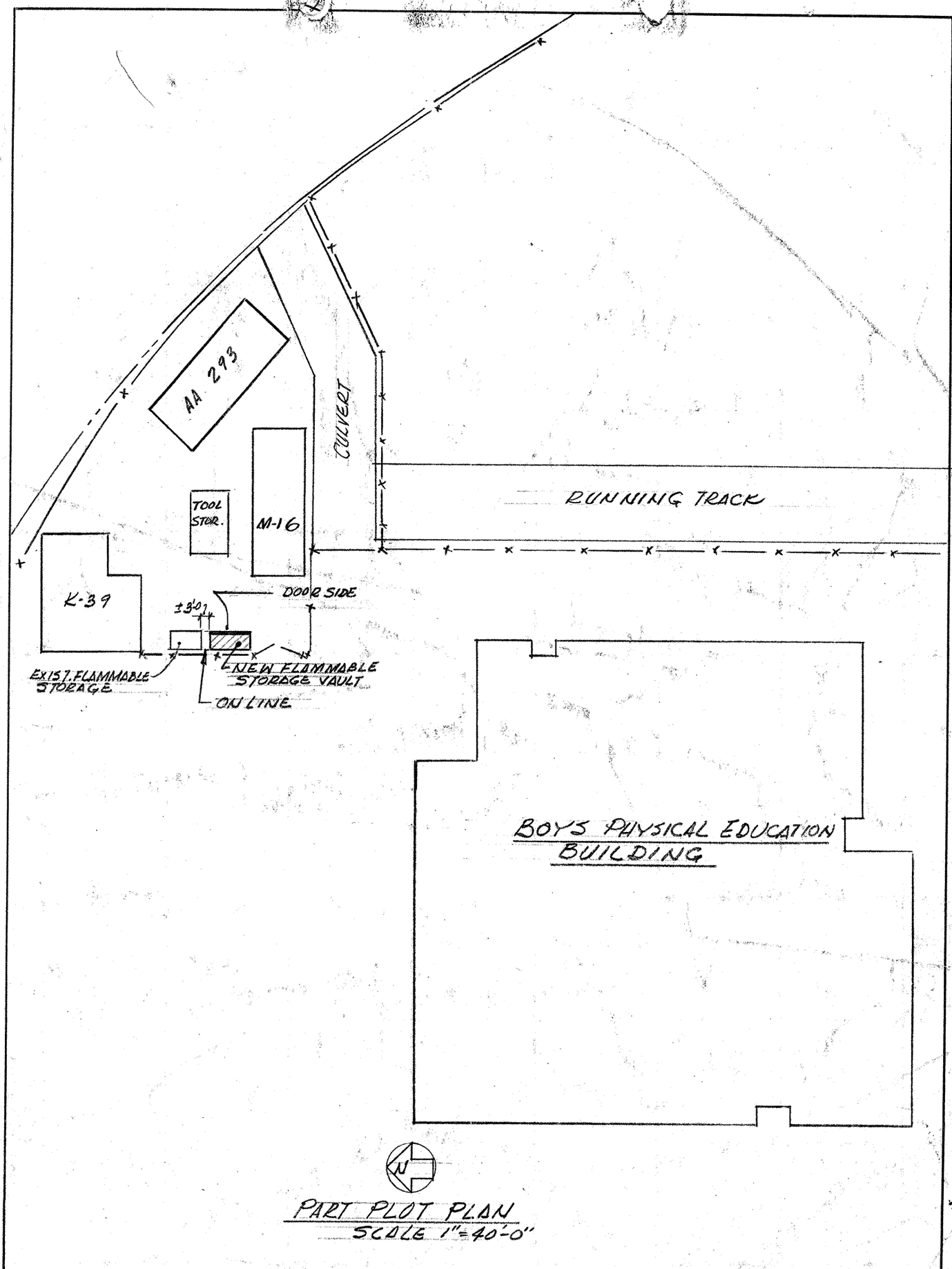
WM. GLENN BALCH A.I.A.
JOHN LORING PERKINS A.I.A.
LOUIS L. BRYAN
W. K. HUTCHASON A.I.A.

PREPARED FOR THE
BOARD OF EDUCATION
LOS ANGELES CITY HIGH SCHOOL DISTRICT

DATE 5/24/57
JOB NO. 567
SHEET NO. A-3PL
U. C. 3


FOUNDATION PLAN
Scale 1/8"=1'-0"
FOOTING DETAILS
Scale 1/2"=1'-0"
SECTION "A-A"
SECTION "D-D"
SECTION "C-C"
DETAIL SECTION THRU PIT
Scale 1/4"=1'-0"
PIT
Slope to Drain
Note: All Floors are to be flush with finished floor level. Where wood sleeper floors occur drop slab to suit condition.
Fin. Floor Level
Grade
2" Planks
Floor
Drain
Key filled with rock & Gravel
FLOOR PLAN
Scale 1/8"=1'-0"
LECTURE ROOM
AGRICULTURE LABORATORY
CONCRETE WORK
SHEET METAL & PLUMBING
WOOD WORKING SHOP
ELECTRIC SHOP
MECHANICAL SHOP
TOOL ROOM
TOILET
Work Bench
Wash Sink
Conc. Ramp
Sliding Doors
Metal Bumpers
Floor Drain
Vent Over Damper Controled by cord
Conc. Floor & Base Plaster Walls & Ceiling
Drain Floor to Urinals
D-1
D-2
D-3
D-4
D-5
D-6
Wood Plinth
Wire Mesh #10 Gage
Wire Glass
Wire Plate Glass
Outside
Inside
Kick Plate
For Door "D-6" see Detail of Sliding Door Sheet #3.
For "D-4" see Detail of Tool Room Door Sheet #3.
PROPOSED GYM BLDG
PROPOSED DOMES SCE.
DRIVE
PRESENT MAIN BLDG
MAIN BUILDING
Present Cesspoils
1 1/2" Water Line
SEPTIC TANK
NEW SHOP BUILDING 1924
LATH HOUSE
GARAGE
HOUSE
PLOT PLAN
Scale 1"=40'-0"
LOT LINE
VASSAR AVE
H STREET
CANOGA PARK
PLANS
OWENSMOUTH HIGH SCHOOL
SHOP BUILDING
PLANS PREPARED BY BUSINESS DEPARTMENT
BOARD OF EDUCATION
L.A. CITY HIGH SCHOOL DIST.
Feb. 8, 1924
V.F.B.
V.F.B.
V.G.M.
302.54
1
Susan M. Dorsey
by J.B. Monlux
Deputy
E. W. Marten
Business Mgr.
Los Angeles

8571.17 #33



PART PLOT PLAN
SCALE 1"=40'-0"

NEW FLAMMABLE STORAGE VAULT GROUP #49

PREPARED BY
BUSINESS DIVISION
BOARD OF EDUCATION
L.A. CITY DISTRICT
1425 SOUTH SAN PEDRO STREET
LOS ANGELES CALIFORNIA

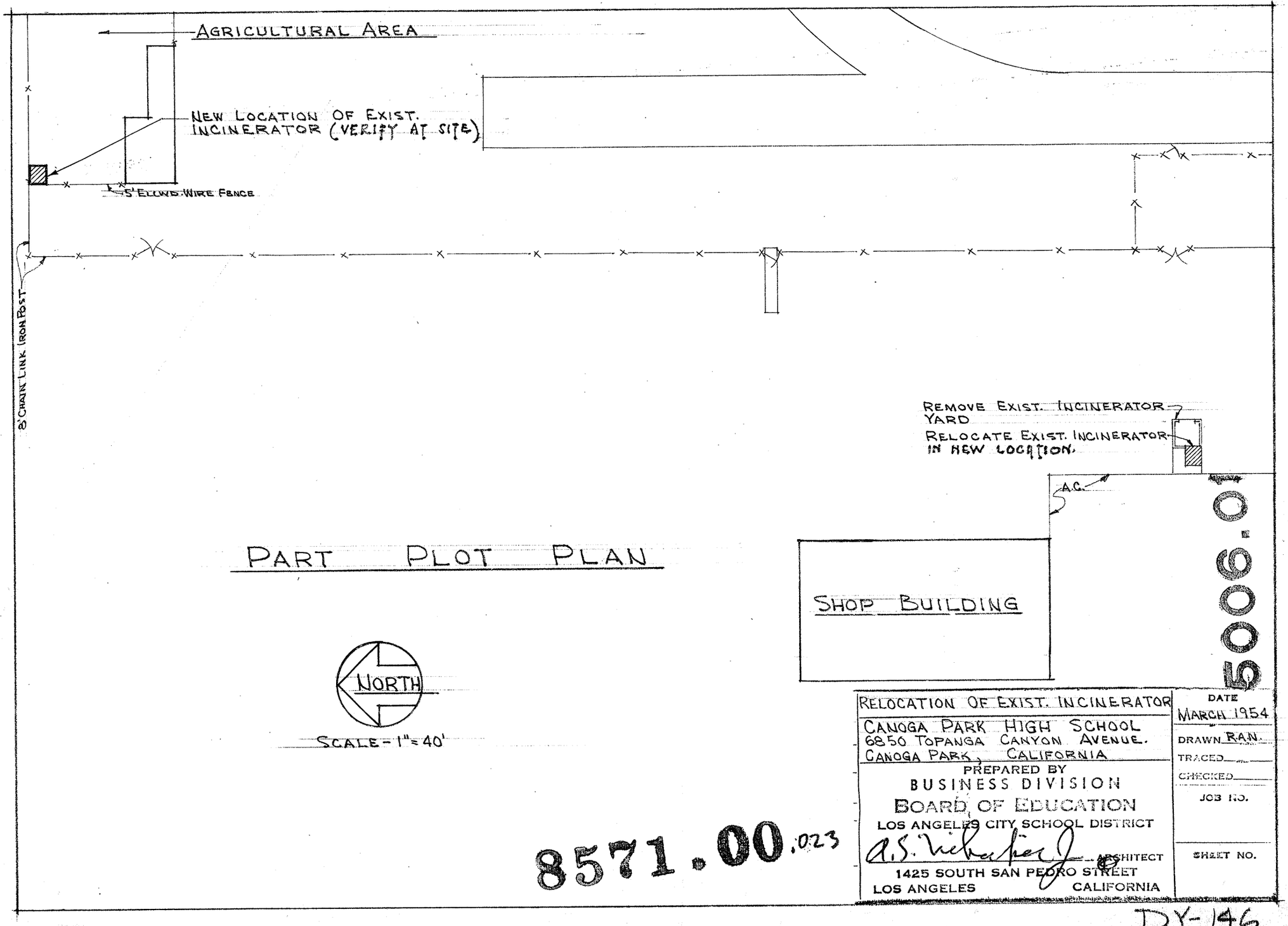
CANOGA PARK HIGH SCHOOL
6850 TOPANGA CANYON BLVD.
CANOGA PARK, CALIFORNIA

DATE DRAWN 3-61

SHEET A OF SHEETS

FORM 71.22

6094



PART PLOT PLAN

8571.00.023

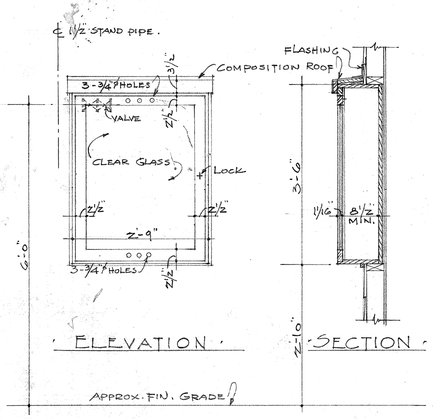
RELOCATION OF EXIST. INCINERATOR
CANOGA PARK HIGH SCHOOL
6850 TOPANGA CANYON AVENUE.
CANOGA PARK, CALIFORNIA

PREPARED BY
BUSINESS DIVISION
BOARD OF EDUCATION
LOS ANGELES CITY SCHOOL DISTRICT

A. S. Nicholson Jr. ARCHITECT
1425 SOUTH SAN PEDRO STREET
LOS ANGELES CALIFORNIA

DATE MARCH 1954
DRAWN R.A.N.
TRACED
CHECKED
JOB NO.
SHEET NO.

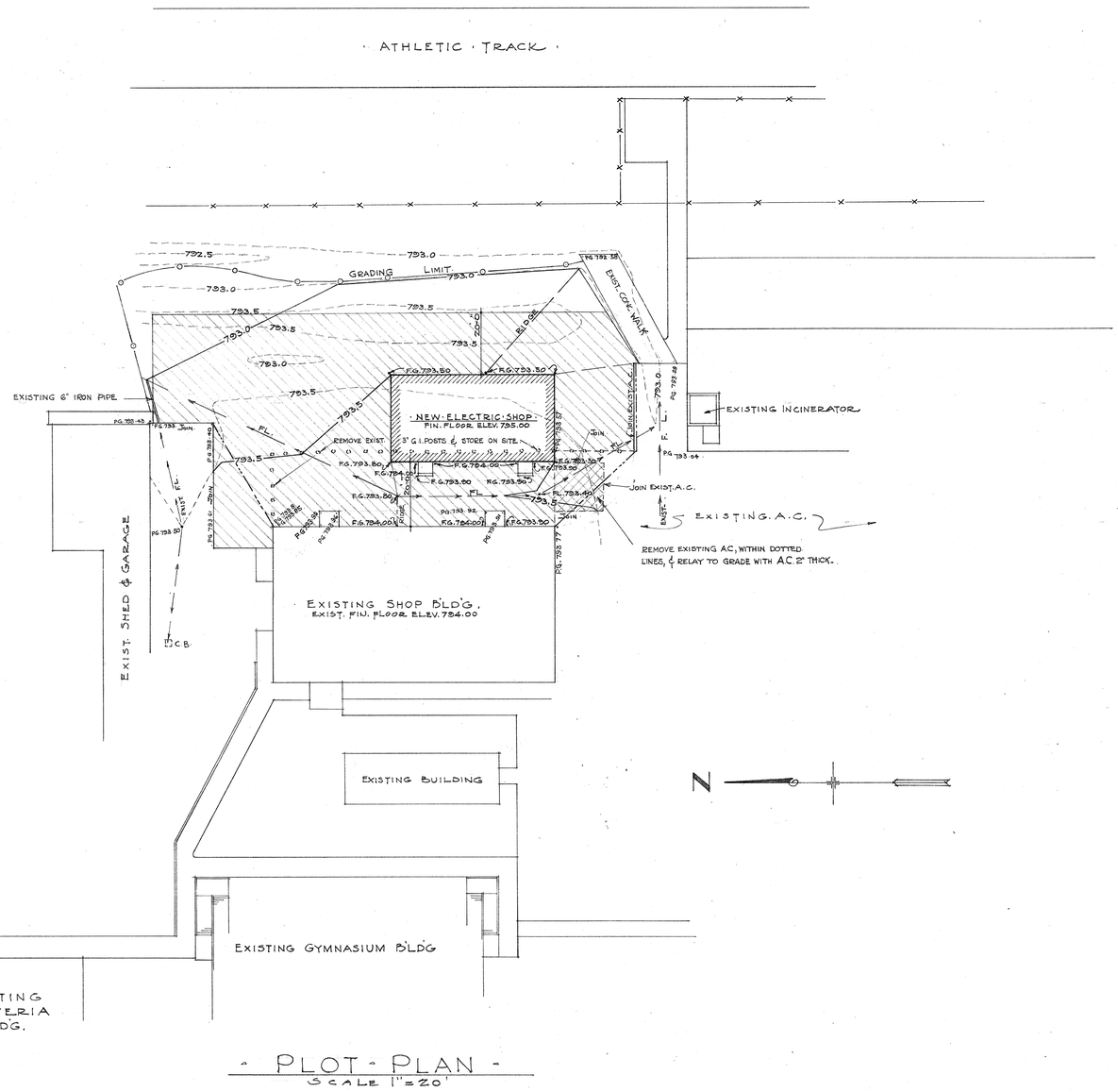
DY-146



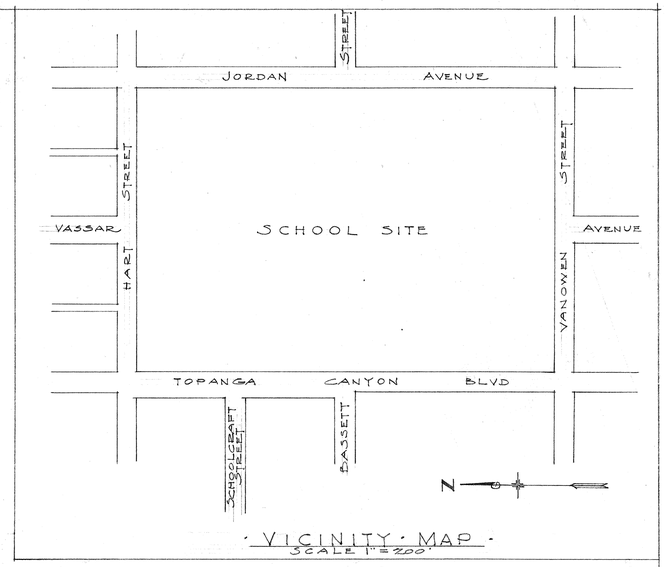
· ELEVATION · · SECTION ·

· DETAIL · HOSE · CABINET ·
SCALE ¾"=1'-0"

NOTE:
FOR LOCATION SEE FLOOR PLAN.



· PLOT · PLAN ·
SCALE 1"=20'



· VICINITY · MAP ·
SCALE 1"=200'

LEGEND

PRESENT GRADE CONTOURS SHOWN ——— 793.0 ———
FINISH GRADE CONTOURS SHOWN ——— 793.0 ———
DRAINAGE DEPRESSION OR FLOW LINE SHOWN ——→——
NEW ASPHALTIC CONCRETE SURFACE 2" THICK SHOWN
EXISTING ASPHALTIC CONCRETE TO BE REMOVED SHOWN
GRADING LIMIT SHOWN ——o——o——o——
BARRICADE LINE SHOWN ——— --- ———
F.G. DENOTES FINISH GRADE.
A.C. " ASPHALTIC CONCRETE.
P.G. " PRESENT GRADE.

2571.07

ELECTRICAL SHOP

STATE OF CALIFORNIA · DEPARTMENT OF PUBLIC WORKS
DIVISION OF ARCHITECTURE

APPLICATION No. 6118 — APPROVED 8-18-48 — Per Harry W Parkin, SUPERVISING STRUCTURAL ENGINEER

CHIEF STRUCTURAL ENGINEER

V. KERSEY, SUPT.

ROY J. BECKER, CH. BLDG. DOM.

A. S. NIBECKER, JR., BLDG. INSPR. & ARCHITECT

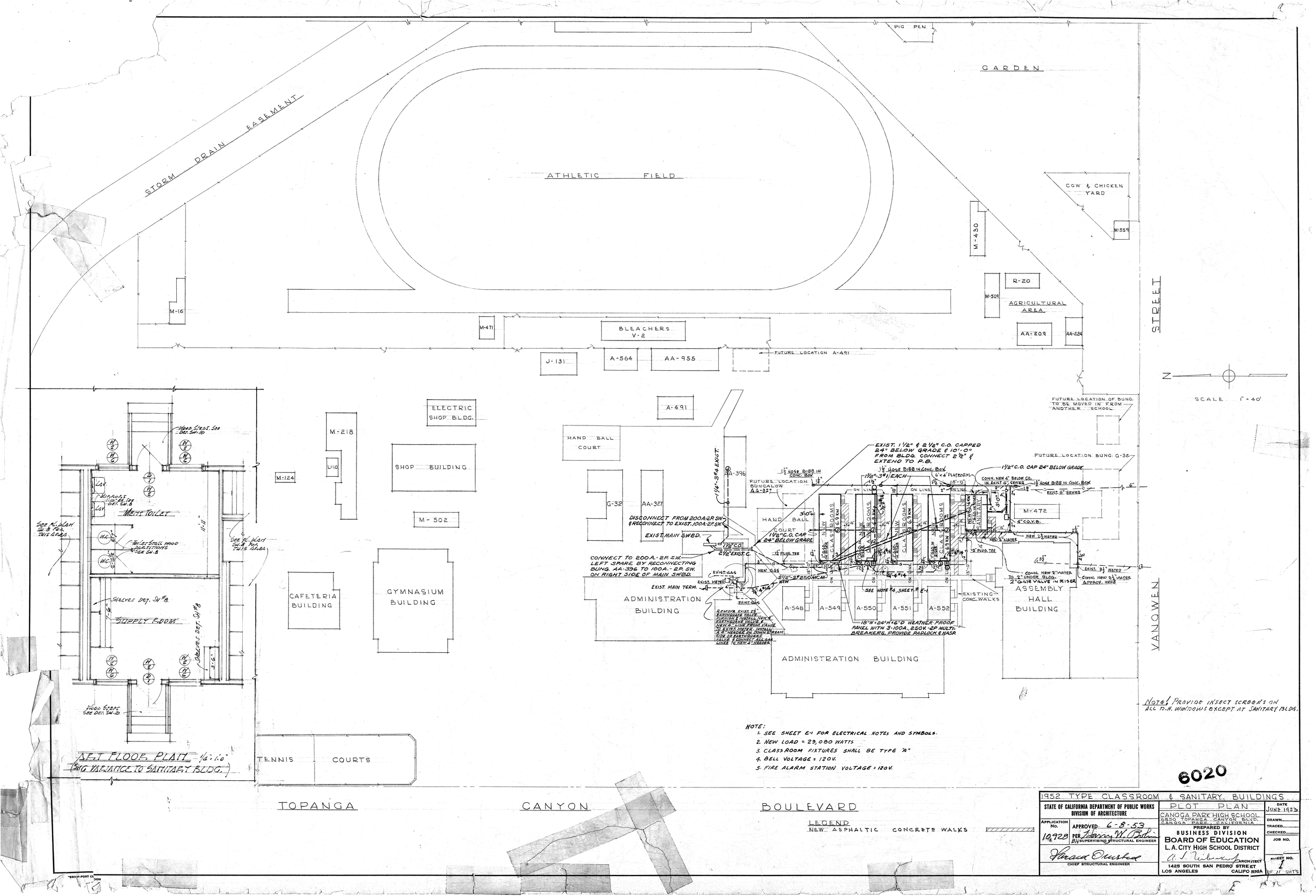
· PLOT · PLAN ·

CANOGA PARK HIGH SCHOOL
6300 TOPANGA CANYON BLVD.
CANOGA PARK, CALIF.

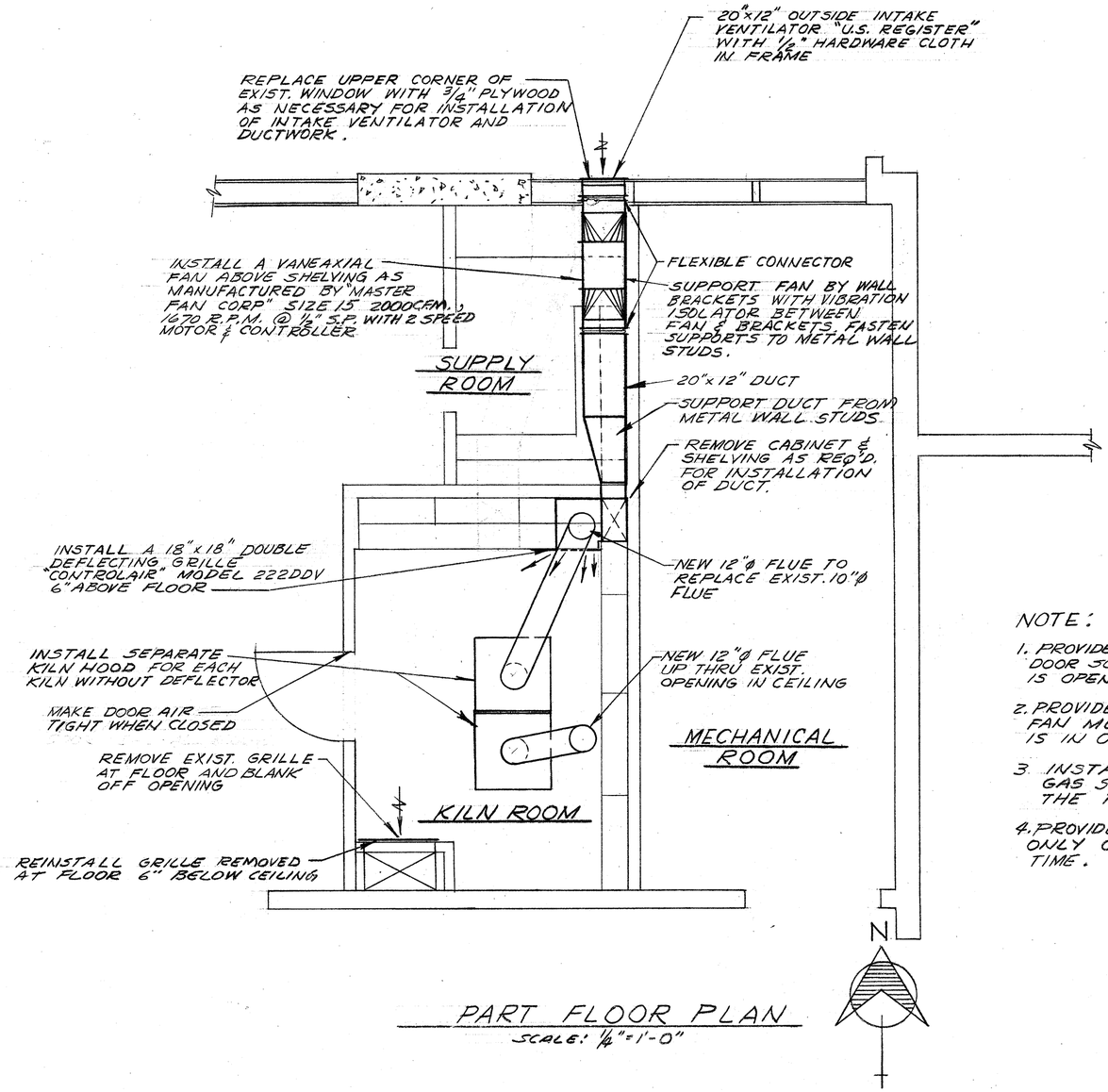
PLANS PREPARED BY
BUSINESS DIVISION
BOARD OF EDUCATION
L. A. CITY HIGH SCHOOL DISTRICT
E. R. Billesbeck ASSOCIATE ARCHITECT
1425 SOUTH SAN PEDRO STREET
LOS ANGELES CALIFORNIA

DATE: AUG. 1948
DRAWN: HB
TRACED
CHECKED
JOB No.
SHEET No. 1 OF 6 SHTS

2571.07 #33



STORM DRAIN EASEMENT
ATHLETIC FIELD
PIG PEN
GARDEN
COW & CHICKEN YARD
M-559
M-430
R-20
M-509
AGRICULTURAL AREA
AA-209
AA-224
STREET
M-16
M-471
BLEACHERS V-2
J-131
A-564
AA-955
FUTURE LOCATION A-491
SCALE 1" = 40'
FUTURE LOCATION OF BUNG. TO BE MOVED IN FROM ANOTHER SCHOOL
ELECTRIC SHOP BLDG.
A-491
M-218
L-10
M-124
SHOP BUILDING
HAND BALL COURT
M-502
G-32
AA-327
AA-396
FUTURE LOCATION BUNGALOW AA-327
EXIST. 1 1/2" & 2 1/2" C.O. CAPPED 24" BELOW GRADE & 10'-0" FROM BLDG. CONNECT 2 1/2" & EXTEND TO P.B.
FUTURE LOCATION BUNG. G-32
1 1/2" C.O. CAP 24" BELOW GRADE
M-472
DISCONNECT FROM 200A-2P. SW. & RECONNECT TO EXIST. 100A-2P. SW.
EXIST. MAIN SWBD.
CONNECT TO 200A.-2P. SW. LEFT SPARE BY RECONNECTING BUNG. AA-396 TO 100A.-2P. SW. ON RIGHT SIDE OF MAIN SWBD.
EXIST. MAIN TERM.
ADMINISTRATION BUILDING
A-548
A-549
A-550
A-551
A-552
SEE NOTE #4, SHEET # E-1
EXISTING CONC. WALKS
18"W x 24"H x 6"D WEATHER PROOF PANEL WITH 3-100A., 250V.-2P MULTI-BREAKERS, PROVIDE PADLOCK & HASP.
ASSEMBLY HALL BUILDING
VANOWEN
CAFETERIA BUILDING
GYMNASIUM BUILDING
TENNIS COURTS
TOPANGA CANYON BOULEVARD
MENS TOILET
SUPPLY ROOM
ART FLOOR PLAN 1/4" = 1'-0"
(SHG VARIANCE TO SANITARY BLDG.)
NOTE: PROVIDE INSECT SCREENS ON ALL D.H. WINDOWS EXCEPT AT SANITARY BLDG.
NOTE:
1. SEE SHEET E-1 FOR ELECTRICAL NOTES AND SYMBOLS.
2. NEW LOAD = 29,080 WATTS
3. CLASSROOM FIXTURES SHALL BE TYPE "A"
4. BELL VOLTAGE = 120V.
5. FIRE ALARM STATION VOLTAGE = 120V.
LEGEND
NEW ASPHALTIC CONCRETE WALKS
6020
1952 TYPE CLASSROOM & SANITARY BUILDINGS
STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS
DIVISION OF ARCHITECTURE
APPLICATION NO. 10,928
APPROVED 6-8-53
PER Harry W. Bolin
BY SUPERVISING STRUCTURAL ENGINEER
CHIEF STRUCTURAL ENGINEER
PLOT PLAN
CANOGA PARK HIGH SCHOOL
6850 TOPANGA CANYON BLVD.
CANOGA PARK, CALIFORNIA
PREPARED BY
BUSINESS DIVISION
BOARD OF EDUCATION
L. A. CITY HIGH SCHOOL DISTRICT
ARCHITECT
1425 SOUTH SAN PEDRO STREET
LOS ANGELES CALIFORNIA
DATE JUNE 1953
DRAWN
TRACED
CHECKED
JOB NO.
SHEET NO. 1 OF 11 SHTS



PART FLOOR PLAN

SCALE: 1/4"=1'-0"

NOTE:

1. PROVIDE AN ELECTRICAL SWITCH ON KILN ROOM DOOR SO AS TO SHUT OFF FAN WHEN THE DOOR IS OPENED.
2. PROVIDE A SIGN ON KILN STATING THAT THE FAN MUST BE OPERATING WHILE THE KILN IS IN OPERATION.
3. INSTALL A PRESSURE REGULATOR IN THE GAS SUPPLY LINE TO THE KILN TO LIMIT THE PRESSURE TO 6" W.C.
4. PROVIDE A SIGN IN KILN ROOM STATING THAT ONLY ONE KILN SHALL BE OPERATED AT ANY TIME.

8571.02.025

MAINTENANCE

KILN HOOD AND KILN ROOM AIR SUPPLY INSTALLATION

CANOGA PARK HIGH SCHOOL
6850 TOPANGA CANYON BLVD.
CANOGA PARK, CALIF.

DATE 10-12-60

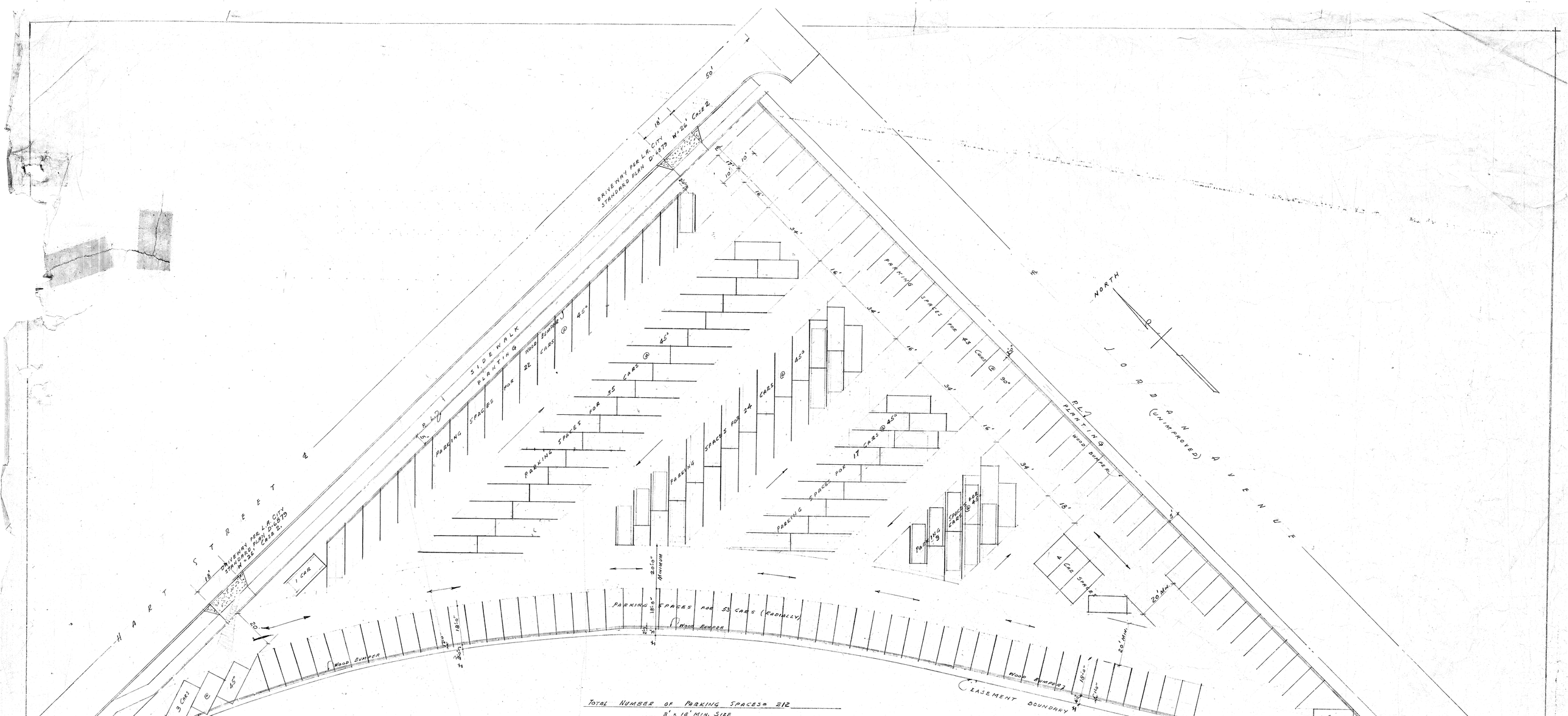
DRAWN R.R.B.
TRACED
CHECKED

PREPARED BY
BUSINESS DIVISION
BOARD OF EDUCATION
L. A. CITY HIGH SCHOOL DISTRICT
1425 SOUTH SAN PEDRO STREET
LOS ANGELES CALIFORNIA

ARCHITECT
STRUCTURAL ENGINEER
MECHANICAL ENGINEER
ELECTRICAL ENGINEER

INDEX NUMBER M-1

[redacted]



TOTAL NUMBER OF PARKING SPACES= 212
8' x 18' MIN. SIZE
PARKING AREA PAVED THROUGHOUT - 2" ASPH. CONCRETE-

PARKING LOT LAYOUT
CANOGA PARK HIGH SCHOOL
SCALE 1" = 20'-0"

M.J. BUSSARD
CIVIL ENGINEER
16301 - CHATSWORTH ST.
LOS ANGELES, CALIF.
M.J. Bussard R.E. 5352

8571.00
Canoga Park Hi
Ground Imp.
Pkg Lot.
11-8-54

CE-25

N-1700 N-1600 N-1500 N-1400 N-1300 N-1200 N-1100 N-1000

E-1400 E-1300 E-1200 E-1100

COVERED LUNCH AREA

CAFETERIA

TEXTBOOK STORAGE

AA-396

CLASSROOM BUILDING NO 2

SHOP NO 2

MUSIC BUILDING

ASSEMBLY HALL

S-32

MAINTAIN ACCESS TO BOILER ROOM

8' CHAINLINK BARRICADE

EXIST. A.C. PAVING

BOILER RM. SEE SH. DA-3

ARCADE

EXIST. WALK TO REMAIN

NEW 8' CHAINLINK BARRICADE

SAW CUT

SOLID WOOD BARRICADE

PROVIDE EARTH RAMP FOR EMERGENCY EXIT

REMOVE SEPTIC TANK

SOLID WOOD BARRICADE

ABC DA-4

ARCADE 2-STORY

ADMINISTRATION BUILDING
2-STORY CONC & MASONRY

REMOVE SEPTIC TANK

CLASSROOM BUILDING NO 3

ARCADE 1-STORY

CLASSROOM BUILDING NO 1
2-STORY CONC & MASONRY

MARBLE MEMORIAL 5'-6" H X 5'-0" W X 9" THK. & 8 MARBLE BENCHES. REMOVE & PROTECT AT SITE AS DIRECTED BY SCHOOL DISTRICT INSPECTOR. TO BE TURNED OVER TO SCHOOL DISTRICT. THESE ITEMS SHALL BE RELOCATED BY PHASE II CONTR.

D DA-4

ARCADE 1-STORY

SEE NOTE SHEET DC-1

SOLID WOOD BARRICADE

20'-0" WIDE CHAIN LINK GATE

SEE NOTE SHEET DC-1

2-0" WIDE GATE FOR FIRE DEPT USE SEE NOTE 4 & 6

EXIST. STL. PLATE

NEW 8' CHAINLINK BARRICADE

OPTIONAL GATE

WATER VAULT

CONTRACTORS ACCESS

WATER VAULT

PROPERTY LINE

SIDEWALK

VANOWEN STREET

TOPANGA CANYON BOULEVARD

20 15 10 5 0 20 40 60 80 100

GRAPHICAL SCALE
SCALE 1" = 20'

LEGEND

- EXISTING STRUCTURE BUILDING TO REMAIN
- REMOVE EXISTING STRUCTURE BUILDING, CEMENT CONCRETE WALKS
- REMOVE EXIST. A.C. PAVING
- NEW SOLID WOOD BARRICADE 8'-0" HIGH (SOLID PLYWD. NO OPENINGS) TO REMAIN
- —×—×— NEW CHAIN LINK BARRICADE (TO REMAIN)
- —·—·— EXISTING CHAIN LINK FENCE TO REMAIN
- —⊙—⊙— EXISTING CHAIN LINK FENCE TO BE REMOVED

NOTE: 1 THE LOCATION OF THE NEW CHAIN LINK FENCES AND BARRICADES INDICATE THE MAJOR AREA OF THE WORK BUT DOES NOT DESCRIBE ALL ITS LIMITS. SEE OTHER CONTRACT DOCUMENTS FOR RELATED WORK TO THE AREA.

2 BARRICADE SHALL ENCLOSE ALL EXCAVATION & COMPACTION AREAS SHOWN ON CIVIL DRAWINGS

3 TREES TO BE REMOVED ARE SHOWN ON SHEET DC-1

NOTES (CONT)

4 CONTRACTOR SHALL PROVIDE A SIGN WITH RED LETTERS 3" HIGH ON A PERMENANT, WHITE BACKGROUND TO READ "FIRE DEPARTMENT CONNECTION." POST SIGN AT GATE TO EXIST. FIRE DEPT. CONNECTION AND WHEN NEW CONNECTION IS OPERATIVE RELOCATE SIGN TO 12'-0" WIDE GATE.

5 CONTRACTOR SHALL MAINTAIN A CLEAR PATH FROM GATE TO FIRE DEPT. CONNECTION.

6 CONTRACTOR SHALL SCHEDULE WORK SO THAT ELEC., WATER, GAS, HEAT & TELEPHONE SERVICE IS MAINTAINED W/ A MIN. OF INTERRUPTION. EXIST. SERVICES SHALL REMAIN UNTIL NEW SERVICES ARE INSTALLED & ARE READY TO BE CONNECTED INTO EXIST. LINES.

AS-BUILT

N E S W

KEY PLAN

AS-BUILT

8571.25

REVISIONS

NO.	DATE	DESCRIPTION	BY	NO.	DATE	DESCRIPTION	BY

H. WENDELL MOUNCE A.I.A. & ASSOCIATES
ARCHITECTURE INTERIORS PLANNING
3300 TEMPLE STREET, LOS ANGELES CALIFORNIA 90026 (213) 385-7371

DATE 4-7-75
COMM. NO. 73-45A
DRAWN VILLE
CHECKED BY CHAREY

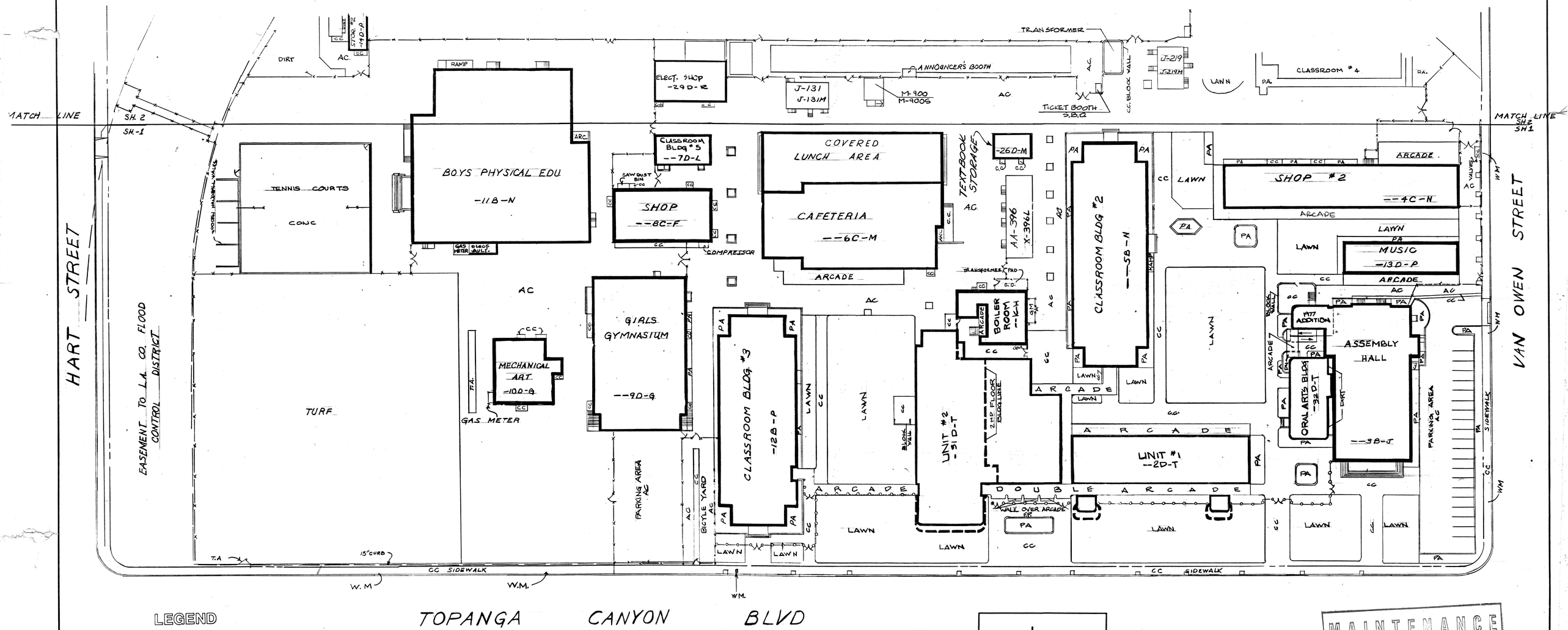
PREPARED FOR
THE BOARD OF EDUCATION
LOS ANGELES UNIFIED SCHOOL DISTRICT

CHAMBELL HIGH SCHOOL
CHAMBELL ATHLETIC FIELD - CLASSROOM BLDG
4750 E. CHAMBELL AVENUE
CANOGA PARK HIGH SCHOOL
6300 TOPANGA CANYON BOULEVARD CANOGA PARK (WOODLAND HILLS) 91303

DEMOLITION SITE PLAN

SHEET NUMBER DA-1

CANOGA PARK HIGH



LEGEND

CENTER LINE	
PROPERTY LINE	
FENCE LINE	
RAILING OR SCREEN	
CHANGE IN GRADE	
ASPHALT CONCRETE	A. C.
CEMENT CONCRETE	C. C.
PLANTING AREA	P. A.
TREE AREA	□ OR T. A.
DECOMPOSED GRANITE	D. G.
GAS METER	G. M.
WATER METER	W. M.
FLAGPOLE	F. P.
AREAWAY	A. W.
STUDENT BODY OWNED	S. B. O.
FIELD LIGHT STANDARD	⊕
SANDBOX	S. B.

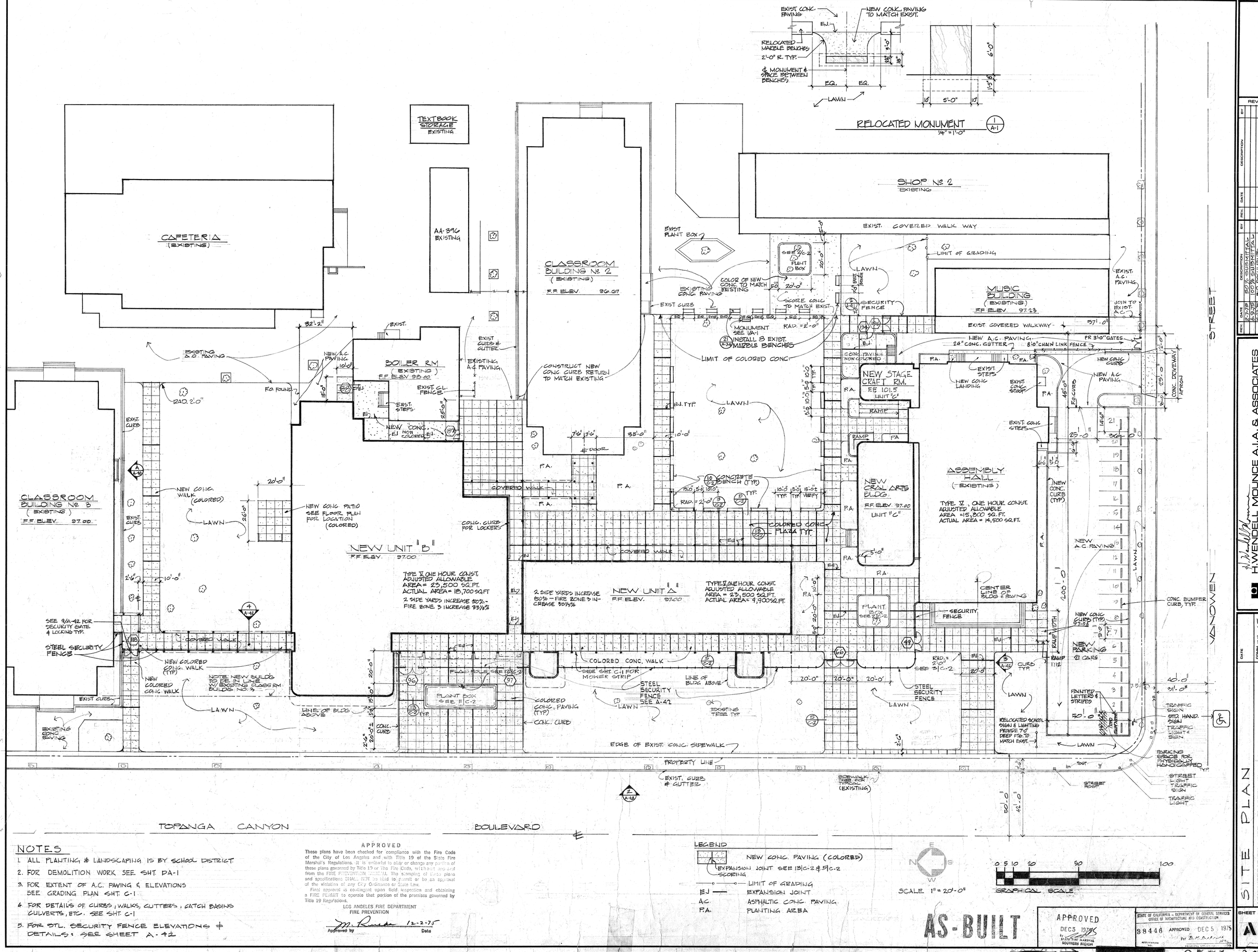
MAINTENANCE

SCALE 1" = 40'

0 10 20 30 40 50 60 70 80 90 100

REVISIONS			PLOT PLAN	
NO.	DATE	DR.	CANOGA PARK HIGH SCH. 6850 TOPANGA CYN BLVD CANOGA PARK CALIF.	DATE 5-16-86
				DRAWN JR.
				CHECKED JR.
			PREPARED BY BUSINESS DIVISION BOARD OF EDUCATION 1425 SOUTH SAN PEDRO STREET LOS ANGELES CALIFORNIA	SCHOOL CODE 8571
			ADMINISTRATIVE AREA L MAINTENANCE AREA # 1	SHEET NO. 1 of 2

8571.00



NOTES

1. ALL PLANTING & LANDSCAPING IS BY SCHOOL DISTRICT.
2. FOR DEMOLITION WORK SEE SHT. DA-1
3. FOR EXTENT OF A.C. PAVING & ELEVATIONS SEE GRADING PLAN SHT. C-1
4. FOR DETAILS OF CURBS, WALKS, GUTTERS, CATCH BASINS CULVERTS, ETC. SEE SHT. C-1
5. FOR STL. SECURITY FENCE ELEVATIONS & DETAILS: SEE SHEET A-42

APPROVED

These plans have been checked for compliance with the Fire Code of the City of Los Angeles and with Title 19 of the State Fire Marshal's Regulations. It is unlawful to alter or change any portion of these plans governed by Title 19 or The Fire Code, without approval from the FIRE PREVENTION BUREAU. The stamping of these plans and specifications SHALL NOT be held to permit or be an approval of the violation of any City Ordinance or State Law.

Final approval is contingent upon field inspection and obtaining a FIRE PERMIT to operate that portion of the premises governed by Title 19 Regulations.

LOS ANGELES FIRE DEPARTMENT
FIRE PREVENTION

Approved by _____ Date 12-2-75

LEGEND

- NEW CONC. PAVING (COLORED)
- EXPANSION JOINT SEE 13/C-2 & 9/C-2 SCORING
- LIMIT OF GRADING
- E.J. EXPANSION JOINT
- A.C. ASPHALTIC CONC. PAVING
- P.A. PLANTING AREA

SCALE 1" = 20'-0"

GRAPHICAL SCALE 0 5 10 20 50 100

AS-BUILT

APPROVED
DEC 5 1975
By DISTRICT MARSHAL SOUTHERN DIVISION

STATE OF CALIFORNIA — DEPARTMENT OF GENERAL SERVICES
OFFICE OF ARCHITECTURE AND CONSTRUCTION
38446 APPROVED DEC 5 1975
APPLICATION No. 1
PRELIMINARY APPROVAL
FINAL APPROVAL

8571.00

REVISIONS

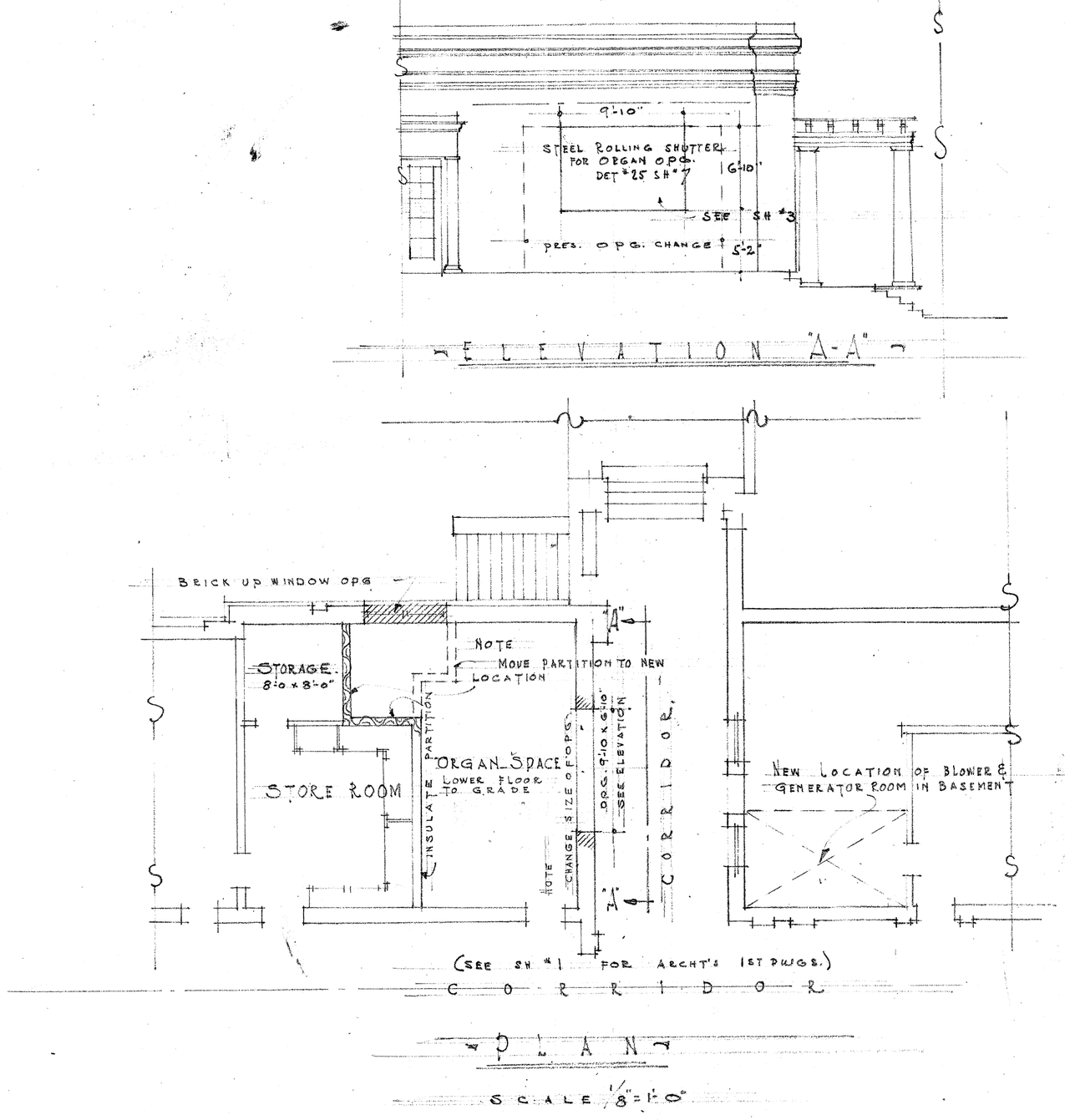
REV.	DATE	DESCRIPTION	BY
	2-7-75	50% SUBMITTAL	
	6-9-75	100% SUBMITTAL	
	10-22-75	BID DOCUMENTS	

H. WENDELL MOUNCE A.I.A. & ASSOCIATES
ARCHITECTURE PLANNING INTERIORS
3300 TEMPLE STREET, LOS ANGELES, CALIFORNIA 90026
(213) 385-7371

Date
JOB NO. 73-45
DRAWN STEVE
CHECKED BY CHARLY

SITE PLAN

SHEET NUMBER A1



8571.02.011

[redacted]

Canoga Park High

ALTERATIONS	DATE AUG. 6, 30
REMODELING OF OLD BUILDING OWENSMOUTH HIGH SCHOOL 21900 HART ST OWENSMOUTH CAL.	DRAWN HBS TRACED CHECKED
PLANS PREPARED BY BUSINESS DEPARTMENT BOARD OF EDUCATION L.A. CITY HIGH SCHOOL DISTRICT W. E. RECORD BUSINESS MGR. ARCHITECT 1445 SOUTH SAN PEDRO STREET LOS ANGELES CALIFORNIA	JOB No. 66228 SHEET No.

AB-113 #33

AB-113

CANOGA PARK HIGH (8571)
OWENSMOUTH HIGH (8573)

JORDAN ST.
DIRT
PA
A.C.
OWENSMOUTH HIGH 8573
DG.
AC
BLEACHERS # 4
OSA #: A-21872 021GOP (1961)
J-120 J120L
OSA #: A-7200 (1947)
CALABASAS CREEK FLOOD CONTROL CHANNEL
WM
HART STREET
SIDEWALK
AA-1757 X1757N
OSA #: A-16341 (1952)
J-112 J012L
OSA #: A-7890 (1949)
AA-1515-4 (1972) AA-2128 X2128S
OSA #: A-8093 (1950)
A-564 A0564N
LATH HOUSE R018WW
GARDEN
HYDRONIC UNIT R018ZW
NO OSA
FLAMMABLE STORAGE #2 017BOP
FLAMMABLE STORAGE #1 016BWN
SHED #1 0228P
TURF
LAWN
SHOT PUT D.G.
CC
DITCH
AA-293 X0293L
TOOL STORAGE 0150H
STOR UNIT 014DOP
AC DRAINAGE
BELL CREEK FLOOD CONTROL CHANNEL
FOOT BRIDGE
MATCH LINE
OSA #: A-28462 (1967)
ELEC. SHOP 029DAR
OSA #: A-8430 (1951)
BLEACHERS # 1 019GOM
BLEACHERS # 2 018GOP
BLEACHERS # 3 020GOM
TRANSFORMER
TICKET BOOTH T0019W
J-131 J0131M
OSA #: A-7657 (1949)
M-900 M0900S
ANNOUNCERS BOOTH 025DOP
OSA #: A-21072 (1961)
TICKET BOOTH S.B.O. T0024W
J-219 J219M
OSA #: A-21698 (1962)
LATH HOUSE 023DOP
AGR. UNIT 022DOP
ARCADE
GREEN HOUSE 0024SOP
OSA #: A-21698 (1961)
LIVESTOCK SHED R028W
LIVESTOCK SHED R029W
LIVESTOCK SHED R030W
GARDEN AREA
DIRT
STOR. UNIT M-1019
CC
COMP BINS
AA-324 X0324L
AA-290 X0290L
OSA #: A-6191 (1948)
C.C. BRIDGE
CLASSROOM # 4 030DCR
OSA #: A-10928 (1953)
SIDEWALK

LEGEND

CENTER LINE	
PROPERTY LINE	
FENCE LINE	
RAILING OR SCREEN	
CHANGE IN GRADE	
ASPHALT CONCRETE	A. C.
CEMENT CONCRETE	P. C. C.
PLANTING AREA	P. A.
TREE AREA	T. A.
DECOMPOSED GRANITE	D. G.
GAS METER	G. M.
WATER METER	W. M.
FLAGPOLE	F. P.
AREAWAY	A. W.
STUDENT BODY OWNED	S. B. O.
FIELD LIGHT STANDARD	
SANDBOX	S. B.

SCALE: 1" = 40'
0 20 40 60 80 100

8571.00

SITE CHECK		
NO	DATE	BY
1	3-21-88	AJD
2	4.29.92	VTD

REVISIONS		
NO.	DATE	DR.
1	7-20-87	BDD
2	4-29-88	AJD
3	5.11.92	VTD

PLOT PLAN
CANOGA PARK HI
6850 TOPANGA CYN. BL.
CANOGA PARK CALIF.

PREPARED BY
BUSINESS DIVISION
BOARD OF EDUCATION
1425 SOUTH SAN PEDRO STREET
LOS ANGELES CALIFORNIA

ADMINISTRATIVE AREA E
MAINTENANCE AREA 4.0

DATE 4-21-87
DRAWN ASH
CHECKED
SCHOOL CODE 8571
SHEET NO. 2 OF 2

RUNDLE 1119

℄ TOPANGA CANYON DRIVE

℄ VASSAR AVENUE

ST VACATED

FOR ADDITIONAL PROPERTY SEE VICINITY MAP

VANOWEN ST

DASSIT ST

HART STREET

BASKET BALL GOALS

BASKET BALL GOALS

CONC. PILLAR

TRACK 220 YDS

FRAME GRD

TENNIS COURT

TENNIS COURT

IRON RODS SET IN CONCRETE WITH HEAVY WIRE FENCE

BASE BALL BACK STOP

BLEACHERS

GYMNASIUM

BASKET BALL GOALS

CAFETERIA

OPEN AIR GYMNASIUM GRAVEL FLOOR

MAIN BUILDING MAY, 1915

DRINKING FOUNTAIN

FOOT BRIDGE

DRAINAGE DITCH

MECHANICAL BLDG

SHED

SHED

PLANTS

TRAVEL BUILDING

PEANUT HOUSE

GARDEN

VICINITY MAP

SCALE 1" = 200'

TOPANGA CANYON DRIVE

2" C.O.C. Gas pipe 2" Pipe line

8" Water Main

WATER PRESSURE 40#

Lot 101

Lot 96

HOOKED IN THIS LINE

DASSIT ST.

HART ST.

I ST VACATED

VASSAR AVENUE

2" City Water

All of Lots 96 & 101, Owensmouth Sheet 2, M.B. 19-36
Also I St by vacation

ADDITIONAL PROPERTY

JORDAN AVE

12-60-89

TEST BORINGS.
APRIL 1916

No 1, 2, 3, 4

LOAM 1'6"

ADOBE

55'

OWENSMOUTH HIGH SCHOOL SITE

Scale: 1 inch = 50'

B.M. - 2"x2" Stake at ℄ intersection of Hart St & Vassar Ave. Set by City = 785.88'

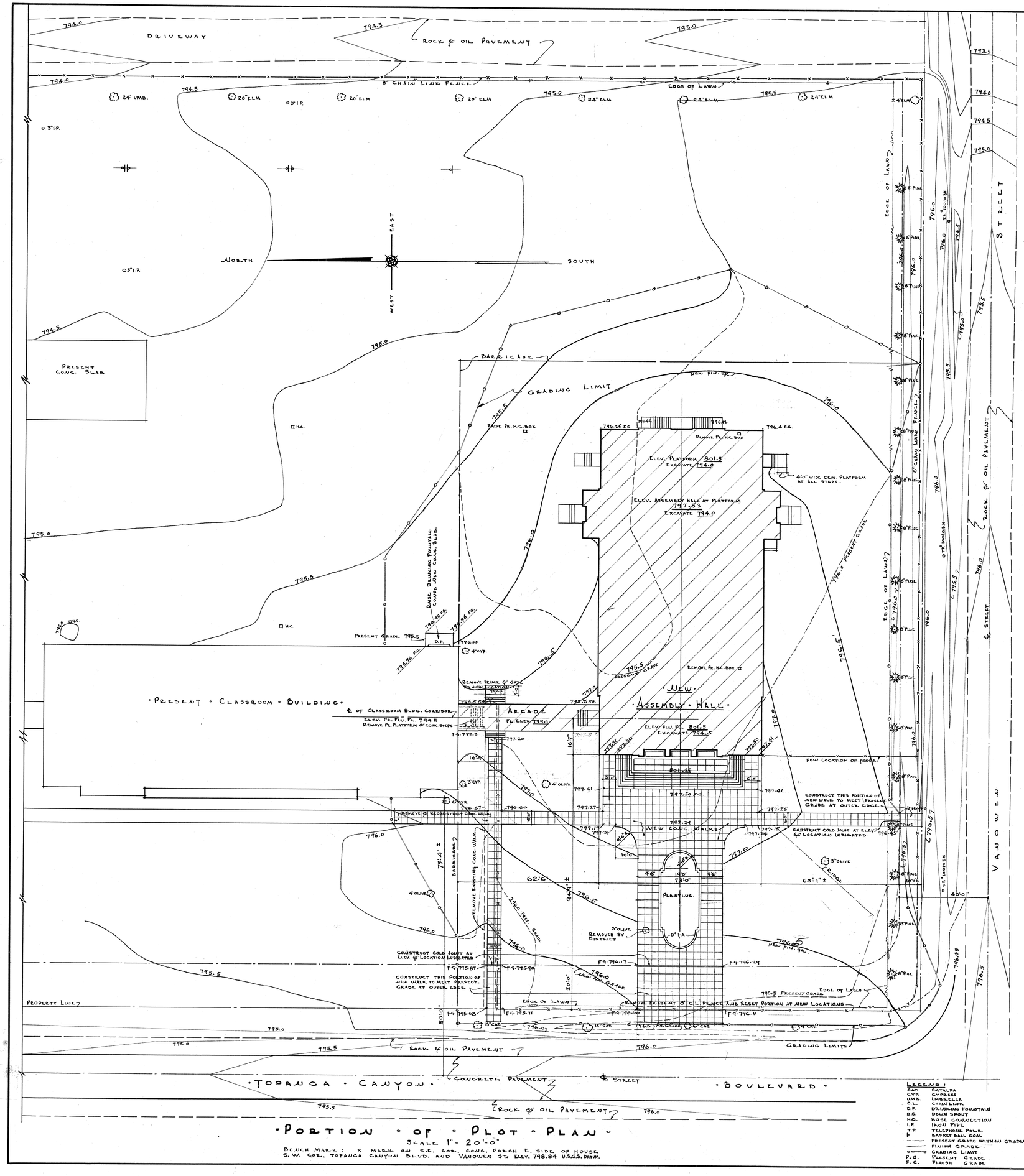
CANOGA PARK

PLOT PLAN
OWENSMOUTH HIGH SCHOOL
TOPANGA CANYON DR. OWENSMOUTH CAL.

PLANS PREPARED BY BUSINESS DEPARTMENT
BOARD OF EDUCATION
L. A. CITY HIGH SCHOOL DIST.
W. E. RECORD, BUSINESS MGR.
J. F. NELSON, SURVEYOR
1445 SOUTH SAN PEDRO STREET
LOS ANGELES CALIFORNIA

DATE SEPT. 4, 1914
DRAWN J.F.C.
TRACED C.L.E.
CHECKED J.F.N.
JOB NO.
SHEET NO.

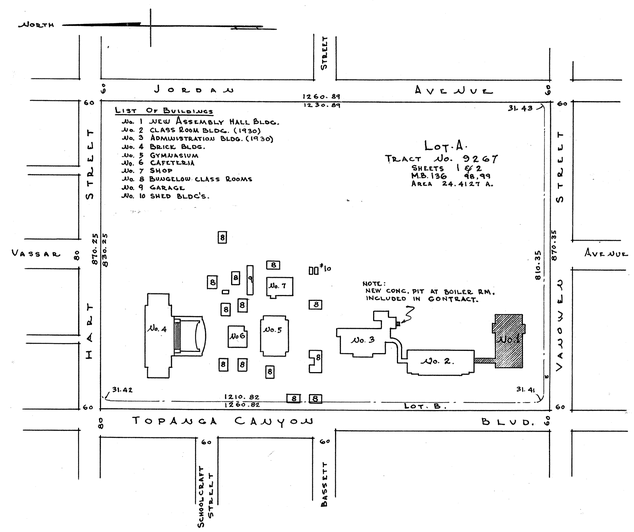
8571.00 CT-56



·PORTION · OF · PLOT · PLAN·

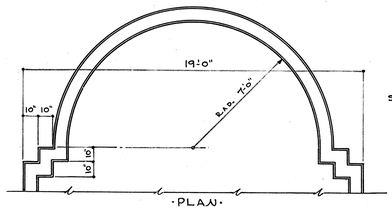
SCALE 1"= 20'-0"

BENCH MARK: X MARK ON S.E. COR. CONC. PORCH E. SIDE OF HOUSE S.W. COR. TOPANGA CANYON BLVD. AND VANOWEN ST. ELEV. 798.84 U.S.G.S. DATUM.

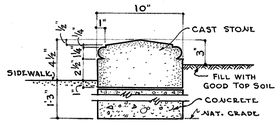


·VICINITY · MAP · AND · PLOT · PLAN·

SCALE 1"=200'



·PLAN·



·SECTION·THRU·CURB·

SCALE 1½"=1'-0"

·DETAIL · OF · CURB · AROUND · PLANTING · SPACE·

SCALE ½"=1'-0"

1-A

NOTE:
APPROVAL OF THE STATE DIVISION OF ARCHITECTURE INCLUDES THE NEW ASSEMBLY HALL AND CONNECTING ARCADE ONLY. THE CONTRACT IN ADDITION INCLUDES THE REMOVAL OF STEPS OF THE CLASS ROOM BLDG., THE CONNECTION OF THE ARCADE TO SAID BUILDING, THE CLASS ROOM BLDG. EXTERIOR DRINKING FOUNTAIN ALTERATION, THE NEW CONCRETE PIT AND COVER AT THE BOILER ROOM, THE SIDEWALKS AND GRADING AND ALL ITEMS INDICATED OR SPECIFIED.

ASSEMBLY HALL FLOOR ELEVATIONS HAVE BEEN RAISED 6" SINCE DRAWINGS WERE COMPLETED. ELEVATIONS UNDERLINED THUS, 801-6, HAVE BEEN CORRECTED. ELEVATIONS NOT UNDERLINED SHALL BE RAISED 6". THIS DOES NOT APPLY TO YARD GRADES, BUT TO BUILDING ELEVATIONS ONLY.

INDEX TO DRAWINGS

ARCHITECTURAL		STRUCTURAL	
A-1	PLOT PLAN	S-12	FOUNDATION PLAN
A-2	1ST. FLOOR PLAN	S-13	1ST. & 2ND. FLOOR FRAMING PLAN
A-3	2ND. FLOOR PLAN & ROOF PLAN	S-14	ROOF
A-4	ELEVATIONS	S-15	WALL SECTIONS
A-5	SECTIONS & ARCADE	S-16	PROSCENIUM ARCH & PIER DETAIL
A-6	EXTERIOR DETAILS	S-17	STAIR DETAIL
A-7	INTERIOR DETAILS	S-18	BEAM SCHEDULE
A-8	INTERIOR DETAILS	S-19	BEAM SCHEDULE
A-9	INTERIOR DETAILS	S-20	ROOF TRUSS Nº 1 & Nº 2
A-10	INTERIOR DETAILS	S-21	ROOF TRUSS Nº 3 & Nº 4
A-11	FRAME DETAILS		

MECHANICAL

SEGREGATED CONTRACTS — LISTED FOR REFERENCE ONLY

M-1	HEATING, VENTILATING & PLUMBING	PLOT PLAN & SECTION
M-2	HEATING, VENTILATING & PLUMBING	FOUNDATION & PART PLOT PLAN
M-3	HEATING, VENTILATING & PLUMBING	1ST. & 2ND. FLOOR PLANS
M-4	ELECTRIC	SWITCHBOARD & SCHEDULES — PLOT PLAN
M-5	ELECTRIC	1ST. & 2ND. FLOOR PLANS

STATE OF CALIFORNIA, DEPARTMENT OF PUBLIC WORKS, DIVISION OF ARCHITECTURE
APPROVED 3-24-38
SEE R. & W. LETTER DATED March 22nd
C. H. Kromer
CHIEF DEPUTY AND ASSISTANT STATE ARCHITECT
2315 H.W.B.

Hibbard, Gerity & Kerton
By Earle A. Hibbard
ARCHITECTS

PLOT PLAN

V. KERSEY
SUPT.

C. W. PEARCE
CH. BLDG. CONST.

L. S. STRICKEN, JR.
BUSINESS MGR. AND ARCHITECT.

NEW ASSEMBLY HALL

CANOGA PARK HIGH SCHOOL
6850 TOPANGA CANYON BOULEVARD
CANOGA PARK, CALIFORNIA.

DATE: MARCH: 1938
JOB NO.

HIBBARD, GERITY & KERTON
ARCHITECTS
816 WEST FIFTH STREET, LOS ANGELES.

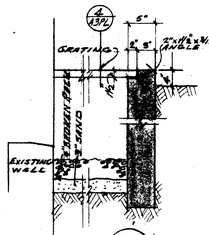
DRAWN F.
TRACED F.
CHECKED H.

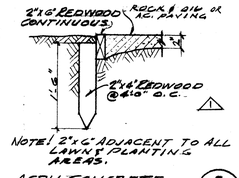
PREPARED FOR THE
LOS ANGELES CITY
HIGH SCHOOL DISTRICT.

SHEET NO. A-1

8571.04

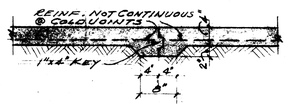
AREAWAY (2)
Scale 3/4"=1'-0"



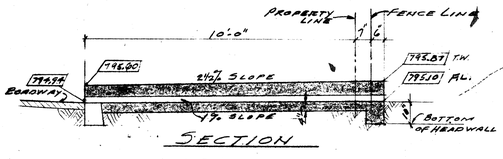


NOTE! 2"x6" ADJACENT TO ALL LAWNS, PLANTING AREAS.

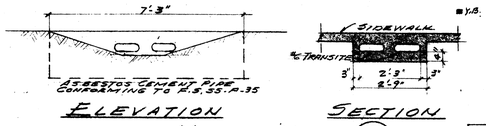
ASPH. CONCRETE PAVEMENT EDGING (1)
Scale 3/4"=1'-0"



TYPICAL CONST. JOINT (3)
SCALE 3/4"=1'-0"

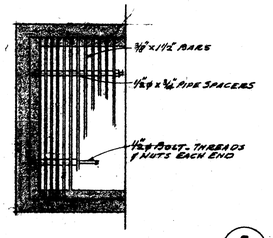


SECTION

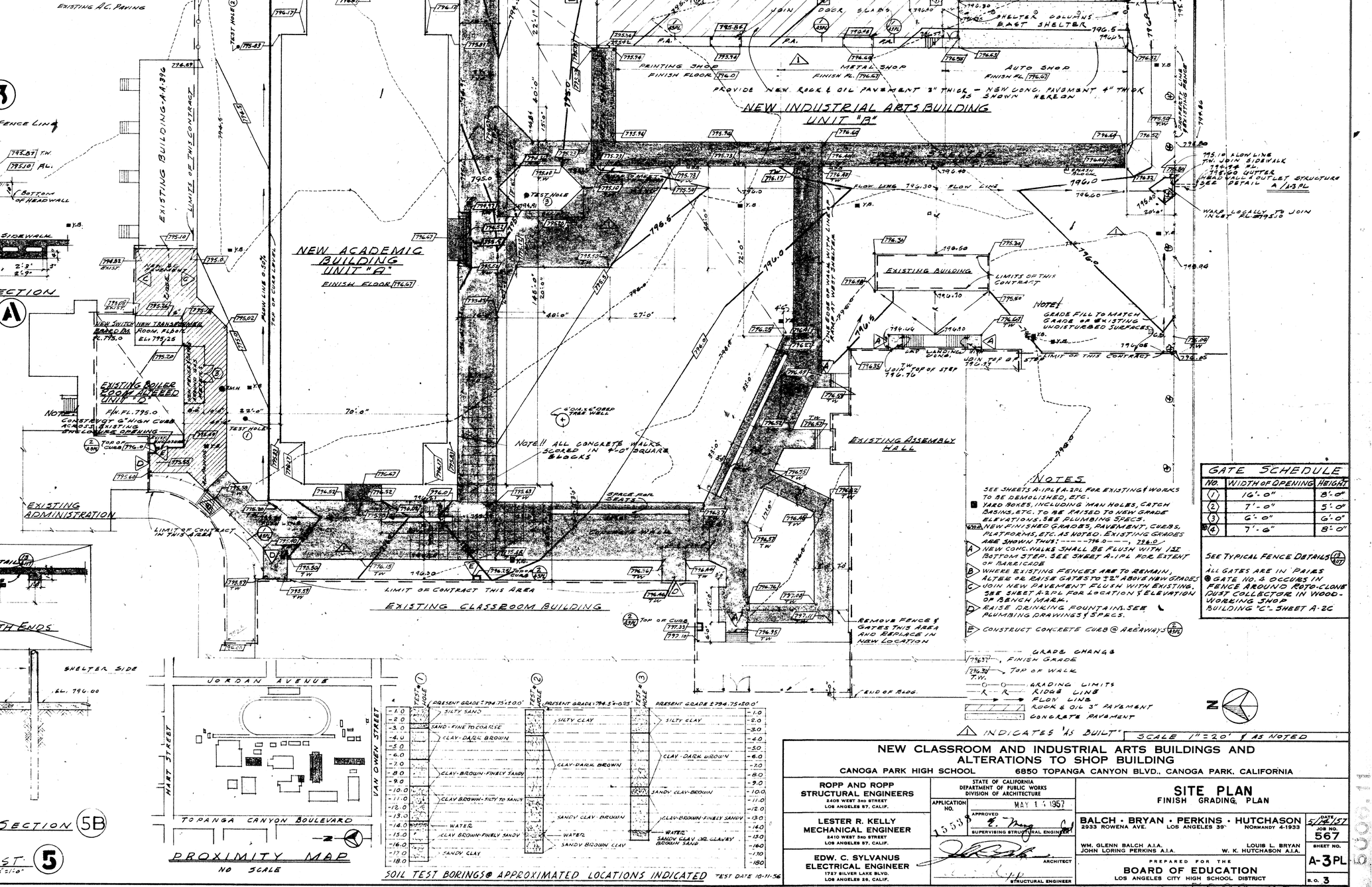


ELEVATION SECTION

HEAD WALL (A)



GRATING DETAIL (4)
No Scale


EXISTING A.C. PAVING
ROCK & OIL PAVEMENT
2:1 BANK TO JOIN PRESENT GRADE
LIMIT OF THIS CONTRACT
GRADE ONLY
EXISTING GATES & DRIVEWAY
EXISTING DRIVE
796.59
CUT CURB FOR NEW DRIVEWAY & REPAVE WITH A.C. PAVING
TREE WELL
MAIN DOOR SLABS
SHELTER COLUMNS
EAST SHELTER
796.5
796.0
PRINTING SHOP FINISH FLOOR 796.0
METAL SHOP FINISH FL. 796.67
AUTO SHOP FINISH FL. 796.67
PROVIDE NEW ROCK & OIL PAVEMENT 3" THICK - NEW CONC. PAVEMENT 4" THICK AS SHOWN HEREON
NEW INDUSTRIAL ARTS BUILDING UNIT "B"
EXISTING BUILDING A-A-396
LIMITS OF THIS CONTRACT
TEST HOLE
NEW ACADEMIC BUILDING UNIT "A"
FINISH FLOOR 796.67
FLOW LINE 796.30
795.10 FLOW LINE TW. JOIN SIDEWALK
795.10 FL
795.10 GUTTER
HEADWALL & OUTLET STRUCTURE SEE DETAIL A/A-3 PL
WARP LOCALLY TO JOIN IN GUT. EL. 795.10
EXISTING BUILDING
LIMITS OF THIS CONTRACT
796.30
796.50
796.10
795.80
NOTE! GRADE FILL TO MATCH GRADE OF EXISTING UNDISTURBED SURFACES
796.06
796.08
796.05
796.00
796.46
796.30
796.35
JOIN TW OF STEP 796.70
LAT LANDING GRADE, JOIN TOP OF STEP 796.70
LIMIT OF THIS CONTRACT
796.67
796.65
796.59
796.52
796.37
796.0
EXISTING ASSEMBLY HALL
EXISTING ADMINISTRATION
LIMIT OF CONTRACT IN THIS AREA
EXISTING CLASSROOM BUILDING
LIMIT OF CONTRACT THIS AREA
NEW SWITCH BOARD IN ROOM EL. 795.0
NEW TRANSFORMER ROOM, FLOOR EL. 795.25
EXISTING BOILER ROOM ALTERED UNIT "D"
F/W. FL. 795.0
795.02
795.0
795.30
795.63
795.59
795.50
795.59
795.57
796.0
796.15
796.30
796.46
796.44
796.57
796.76
797.11
797.33
797.10
796.95
796.10
796.47
796.52
796.20
796.37
796.40
796.57
796.63
796.59
796.55
796.52
796.37
796.57
796.63
796.59
796.55
796.52
796.37
796.57
796.63
796.59
796.55
796.52
796.37

Barricade

Grading Limit

795

795.5

796

796.0

796.5

Raise H.C. Box

Remove H.C. Box

795.75 F.G.

796.4 F.G.

796.5 F.G.

796.40

796.36 F.G.

796.38 F.G.

795.80 F.G.

795.85

796.41

796.43

796.88

796.53

796.00

796.8 F.G.

796.7 F.G.

796.5

796.8 A.G.

797.00 F.G.

796.34

796.30

796.20

796.80

796.85

796.91

796.6

796.13

796.89 profile

796.9

796.0

796.1

796.3

796.4

796.2

796.0

795.5

795.6

795.4

795.3

795.2

795.1

795.0

794.9

794.8

794.7

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792.5

792.4

792.3

792.2

792.1

792.0

791.9

791.8

791.7

791.6

791.5

CONC. GUTTER & C.I.P. SCALE: 1"=1" (3/C-1)

CURB WALL DETAIL SCALE: 1"=1" (2/C-1)

SHALLOW CATCH BASIN & C.A.P. SCALE: 1"=1" (1/C-1)

CAFETERIA (EXIST.)

TEXTBOOK STORAGE EXIST.

EXIST AA-396

CL. RM. BLDG. NO. 2 (EXIST.) (FF = 796.63)

BOILER RM. (EXIST.) (796.80)

SHOP NO. 2 (EXIST.)

MUSIC BLDG. (F.F. 797.23) (EXIST.)

ASSEMBLY HALL (EXIST.) (FF = 801.89)

CL. RM. BLDG. NO. 3 (EXIST.) (F.F. = 796.96)

NEW UNIT "B" F.F. 797.00

NEW UNIT "A" F.F. = 797.00

NEW STAGE CRAFT F.F. 801.50

NEW ORAL ARTS F.F. 798.50

UNIT "C" F.F. 797.00

UNIT "C" F.F. = 800.85

TOPANGA CANYON BLVD.

VANOWEN ST.

EXIST. CURB & GUTTER

EDGE OF EXIST. CONC. WALK

EXIST. 4" S.D. TO CURB

EXIST. CULVERT

EXIST. COVERED WALK

EXIST. PLATFORM & STEPS

EXIST. PLANTER

EXIST. CONC.

EXIST. COMP. PAD

EXIST. A.C. PAVING

EXIST. C.B.

EXIST. WATER VAULT) REMAINS

NEW PLANT BOX

NEW C.B. SEE NOTE #17 THIS SHT.

NEW 4" C.I.P.

NEW 6" C.I.P. S.D.

NEW C.C. LANDING (D.S.)

NEW MOW STRIP

NEW 4" C.I.P. CURB

NEW 6" C.I.P. CURB

NEW 4" C.I.P. CURB & GUTTER

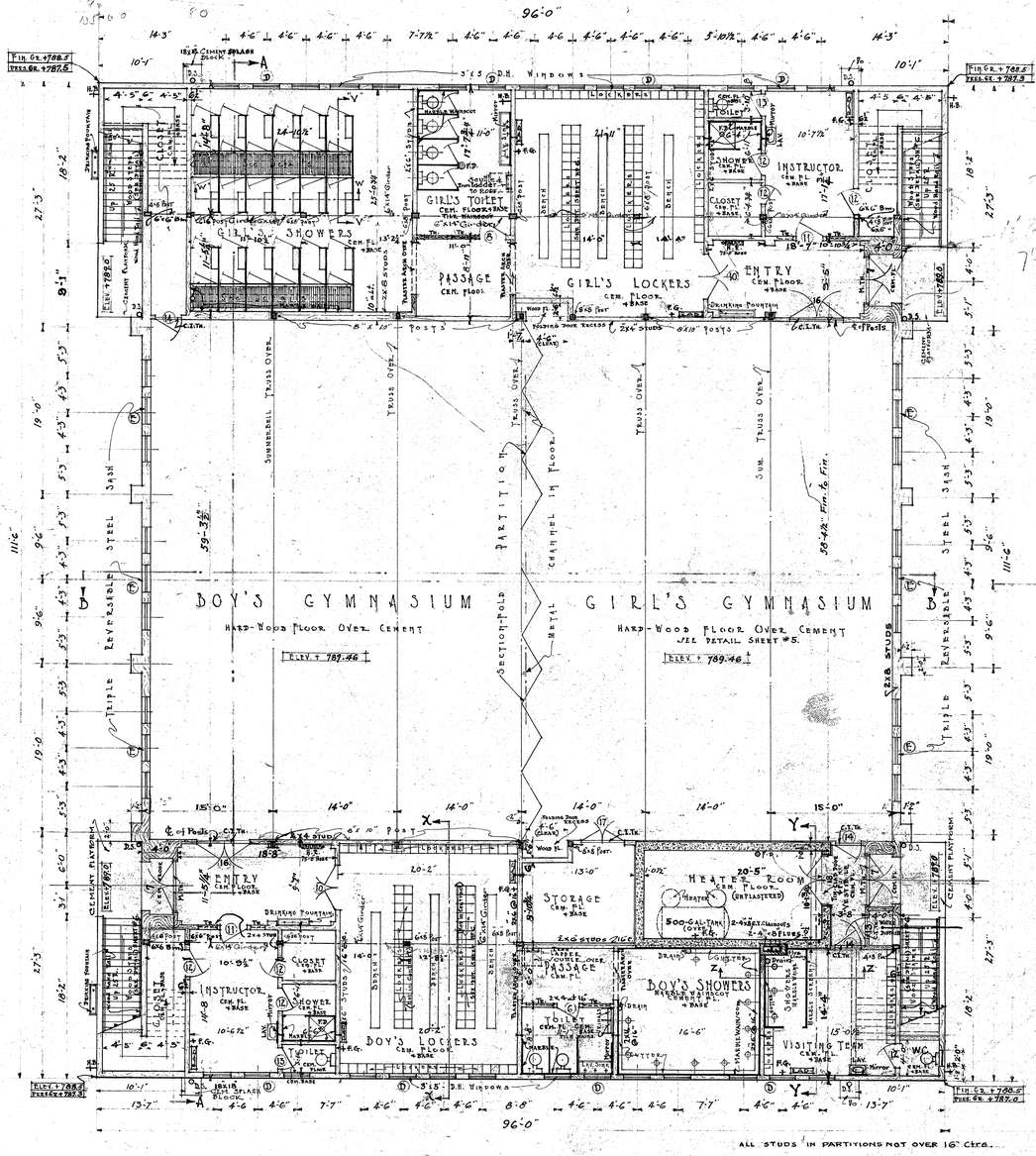
NEW 6" C.I.P. CURB & GUTTER

NEW 4" C.I.P. CURB WALL

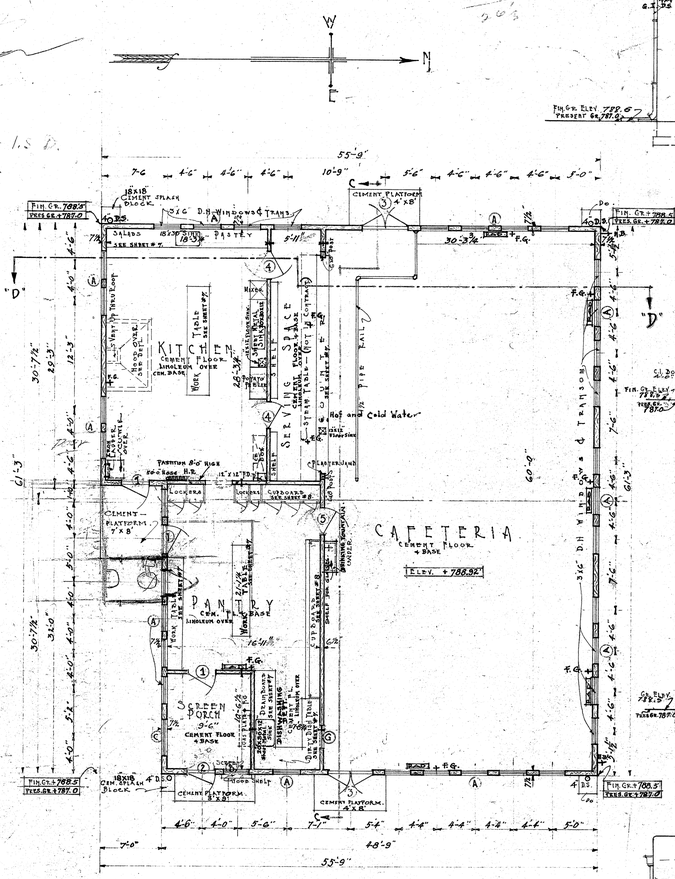
NEW 6" C.I.P. CURB WALL

NEW 4" C.I.P. CURB WALL & GUTTER

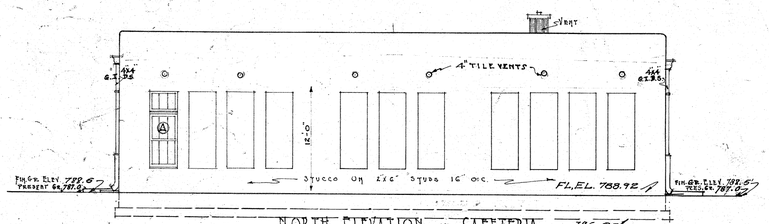
NEW 6" C.I.P. CURB WALL & GUTTER



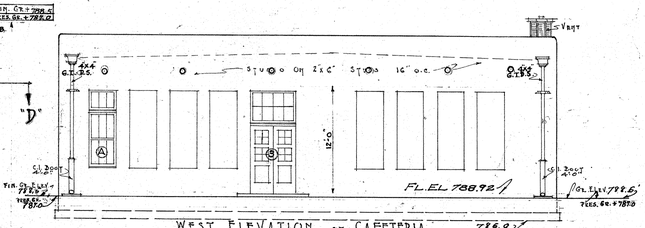
FLOOR PLAN OF GYMNASIUM
SCALE 1/8" = 1'-0"



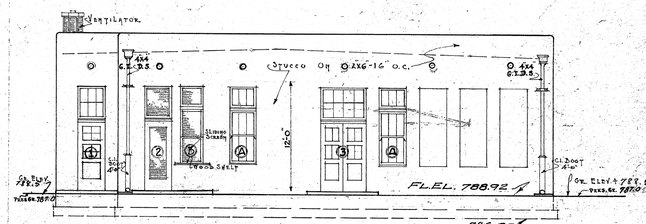
FLOOR PLAN OF CAFETERIA BLDG.
SCALE 1/8" = 1'-0"



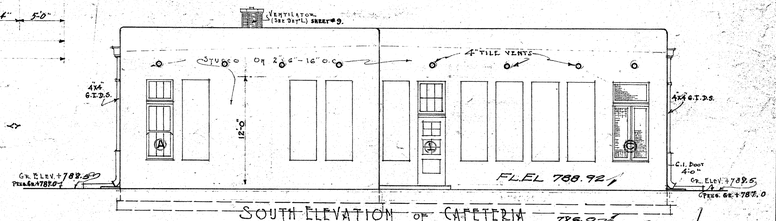
NORTH ELEVATION OF CAFETERIA
SCALE 1/8" = 1'-0"



WEST ELEVATION OF CAFETERIA
SCALE 1/8" = 1'-0"



EAST ELEVATION OF CAFETERIA
SCALE 1/8" = 1'-0"

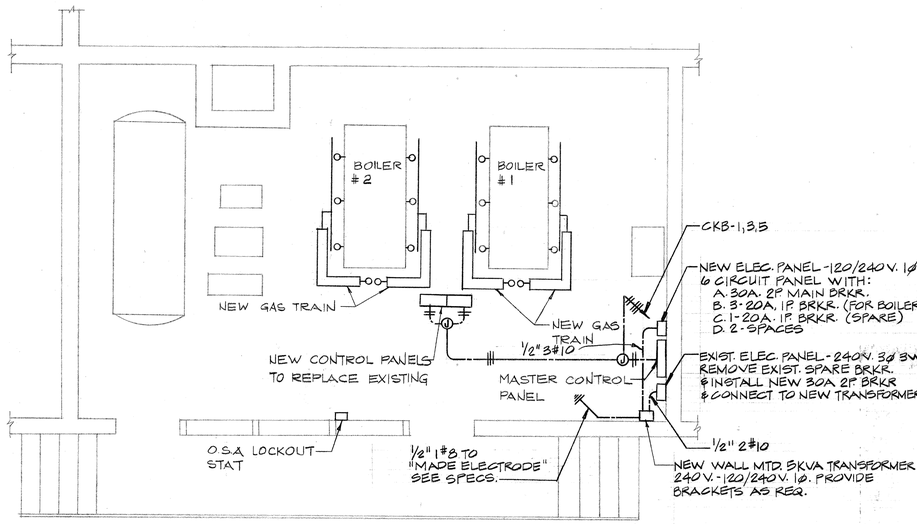


SOUTH ELEVATION OF CAFETERIA
SCALE 1/8" = 1'-0"

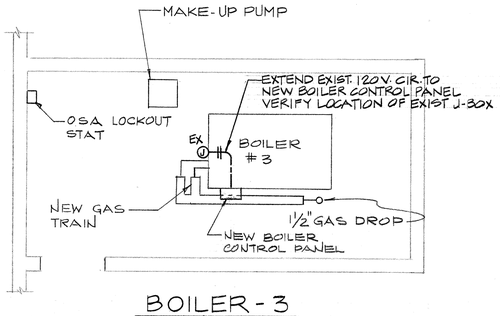
Canoga Park Sc.

APPROVED Susan M. Dorsey SUPT. CH. BLDG. COM. W. E. Record BUSINESS MGR.	PLANS & ELEVATIONS GYMNASIUM & CAFETERIA OWENSMOUTH HIGH SCHOOL OWENSMOUTH CAL. PLANS PREPARED BY BUSINESS DEPARTMENT BOARD OF EDUCATION L.A. CITY HIGH SCHOOL DIST. W. E. RECORD, BUSINESS MGR. ARCHITECT 1445 SOUTH SAN PEDRO STREET LOS ANGELES CALIFORNIA
DATE 3-27-25 DRAWN D.R.S. CHECKED J.E.L. JOB NO. 30317 SHEET NO. 2	

8571.03 #33



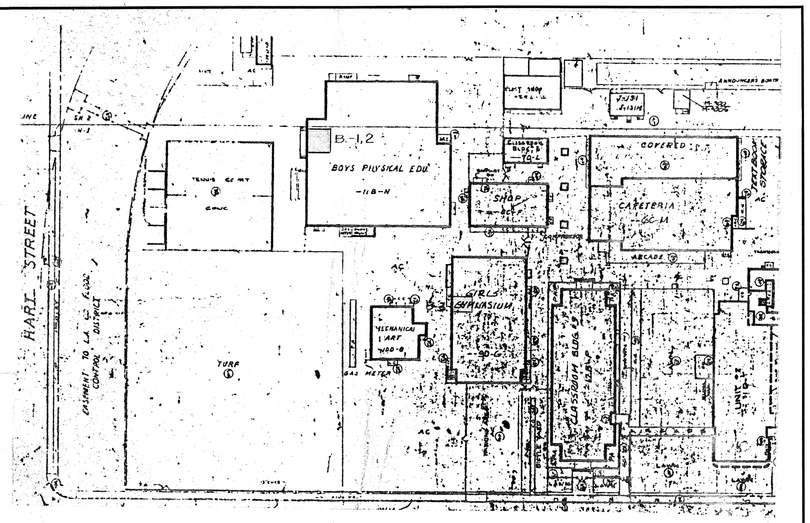
BOILER 1 & 2
BOYS PHISICAL EDUCATION BLDG. 11B-N
1/4"=1'-0"



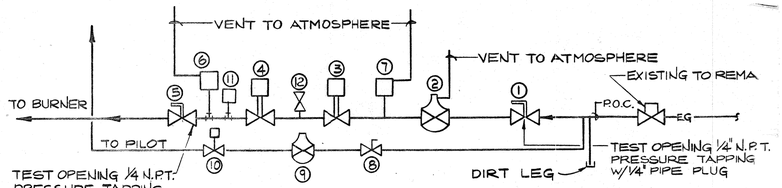
BOILER-3
GIRLS GYMNASIUM BLDG. 9D-G
1/4"=1'-0"

EQUIPMENT LIST

1. MAIN GAS SHUT OFF
2. GAS PRESSURE REGULATOR
3. SAFETY GAS VALVE MOTORED
4. SAFETY GAS VALVE MOTORED
5. GAS COCK
6. HIGH GAS PRESSURE SWITCH
7. LOW GAS PRESSURE SWITCH
8. PILOT SHUT-OFF VALVE
9. PILOT GAS REGULATOR
10. PILOT SOLENOID VALVE
11. GAS PRESSURE GAUGE
12. 1/2" TEST COCK



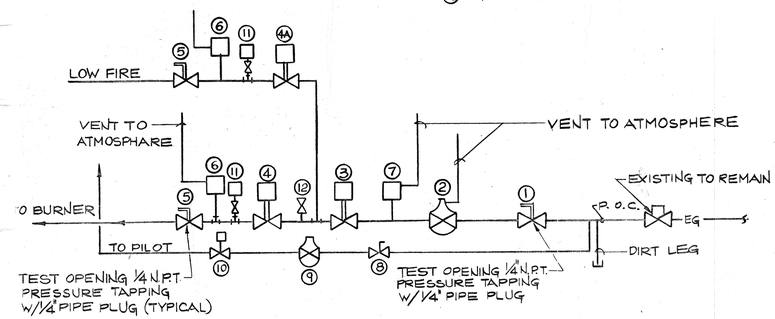
PLOT PLAN



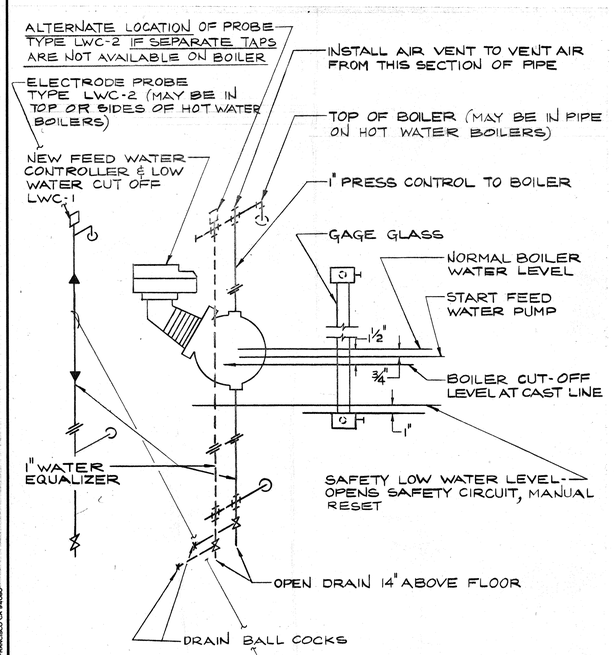
TYPICAL GAS TRAIN DETAIL FOR BOILER
SCALE: NONE

EQUIPMENT LIST

1. MAIN GAS SHUT OFF
2. GAS PRESSURE REGULATOR
3. SAFETY GAS VALVE MOTORIZED
4. SAFETY GAS VALVE MOTORIZED HI FIRE
4A. SAFETY GAS VALVE MOTORIZED LOW FIRE
5. GAS COCK
6. HIGH PRESSURE SWITCH
7. LOW GAS PRESSURE SWITCH
8. PILOT SHUT-OFF VALVE
9. PILOT GAS REGULATOR
10. PILOT SOLENOID VALVE
11. GAS PRESSURE GAUGE
12. 1/2" TEST COCK



2 M-1 TYPICAL GAS TRAIN DETAIL FOR HI-LOW FIRE BOILER
SCALE: NONE



1 M-1 LOW WATER CUT-OFF DETAIL
SCALE: NONE

BOILER GAS TRAINS AND CONTROLS			
BOILER	1 BOYS P.E. 11B-N	2 BOYS P.E. 11B-N	3 GIRLS GYM. 9D-G
MAKE	AMER STD	AMER STD.	RITE
MODEL	4G-21	4G-21	105X
TYPE (C.I. WATER TUBE OR FIRE TUBE)	C.I.	C.I. WATERTUBE	WATER TUBE
STEAM OR HOT WATER	HW	HW	HW
OUTPUT MBTUH			
OPERATING PSIG	30	30	30
FUEL	GAS	GAS	GAS
INPUT MBTUH	2400	2400	1050
BURNER (ATM/POWER)	ATM	ATM	ATM
GAS TRAINS (NO)	2	2	1
PILOT (SINGLE, MULTI RIBBON)	MULTI	MULTI	SINGLE
PILOT S.V. & REG. SIZE	2-3/8"	2-3/8"	3/8"
PILOTS, AMPLIFIERS & IGN. TRANSFORMERS	6	6	1
GAS REGULATOR SIZE	1 1/2"	1 1/2"	1 1/4"
MOTORIZED SAFETY VALVE	1 1/2" V-34	1 1/2" V-34	1 1/4" V-34
MOTORIZED SAFETY VALVE	1 1/2" V-60	1 1/2" V-60	1 1/4" V-60
MOTORIZED SAFETY VALVE (LO FIRE)	—	—	1" V-34
FLAME SAFEGUARD	FLS-4	FLS-4	FLS-5
FLAME DETECTOR	FR-2	FR-2	FR-2
HIGH LIMIT CONTROLLER	HLC-1	HLC-1	HLC-3
LOW WATER CUT OFF 1	LWC-3	LWC-3	LWC-3
LOW WATER CUT OFF 2	LWC-2	LWC-2	LWC-2
OPERATING CONTROLLER	OTC-1	OTC-1	OTC-1
MAKE-UP PUMP CONTROL			OPC-1
LOW FIRE CONTROLLER			OTC-1
MASTER CONTROLLER (2)	← OTC-1 →		

VARIOUS SCHOOLS GROUP - 1458

INDEX NO. 9

RILEY AND ASSOCIATES
CONSULTING MECHANICAL ENGINEERS
1432 W. COLORADO BLVD.
~~10030 SANTA MONICA BLVD.~~
SUITE 208
PASADENA, CA. 91105
~~LOS ANGELES, CA. 90067~~
(213) 879-6734, 681-2227
James M. Riley 11-11221
MECHANICAL ENGINEER
Virgin D. Vadecha E10763
ELECTRICAL ENGINEER

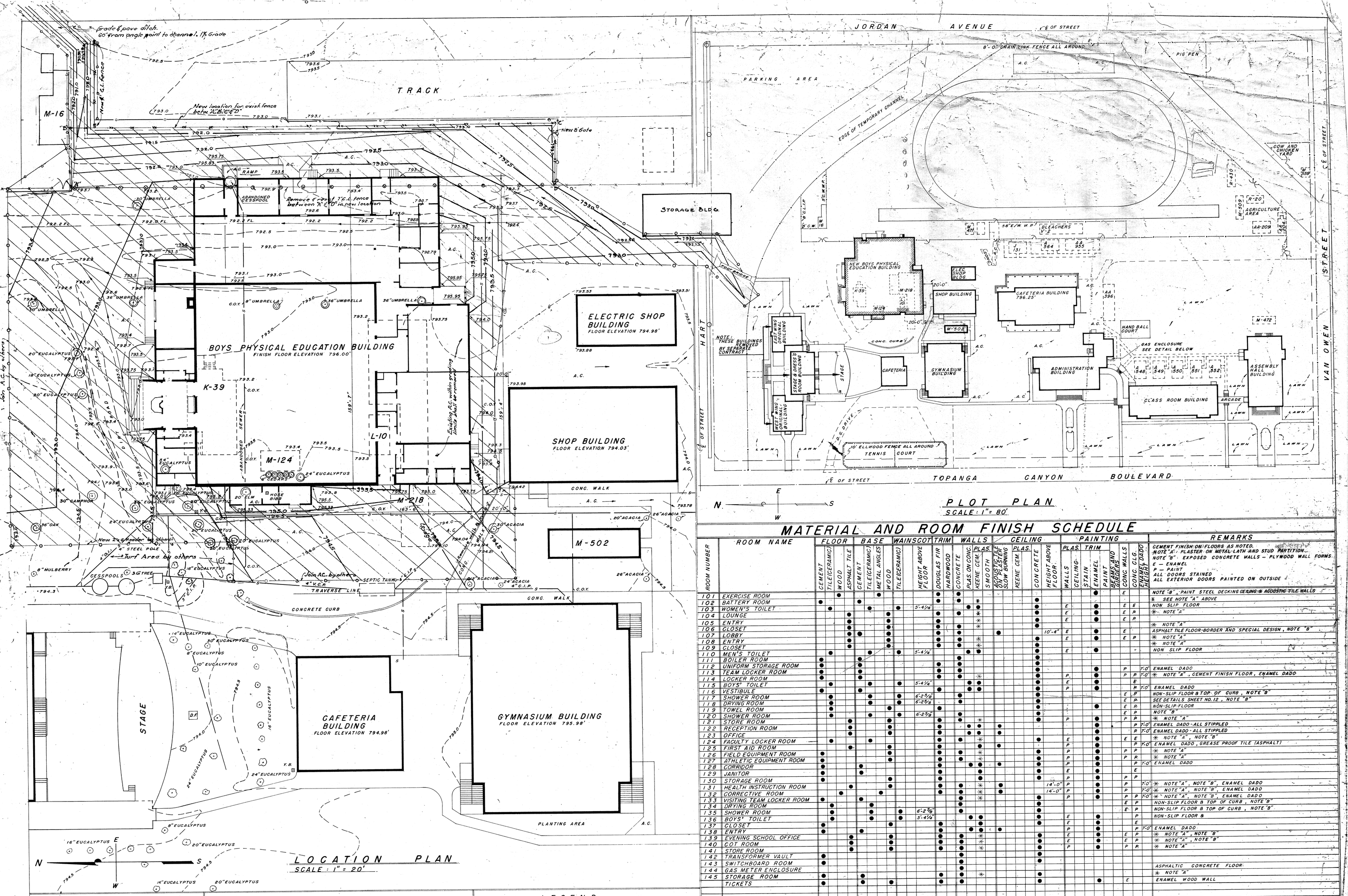
BOILER MODERNIZATION PROGRAM
CANOGA PARK HIGH SCHOOL
6850 TOPANGA CANYON BLVD.
CANOGA PARK, CALIFORNIA

PREPARED FOR
THE BOARD OF EDUCATION
LOS ANGELES UNIFIED SCHOOL DISTRICT

DATE MAY-1984
JOB NO.
DRAWN BY M.G.
CHECKED BY J.N.R.
SHEET NO. 40M-1
OF 1 SHEETS

DOCUMENT CORP. AND LITTLEFIELD AVE. SAN FRANCISCO, CA. 94080
STOCKDRAFTING FORM NO. 101-84

6253 C5353 .9

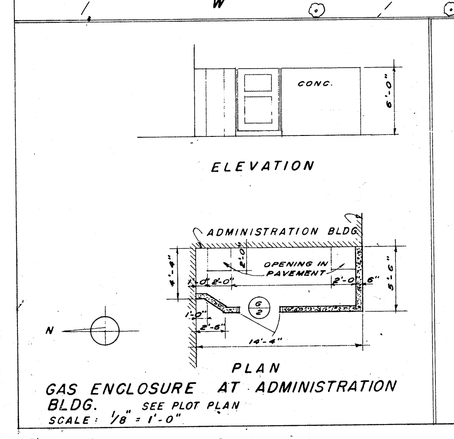


PLOT PLAN
SCALE: 1" = 80'

LOCATION PLAN
SCALE: 1" = 20'

MATERIAL AND ROOM FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	FLOOR: CEMENT	FLOOR: TILE(CERAMIC)	FLOOR: WOOD	FLOOR: ASPHALT TILE	BASE: CEMENT	BASE: TILE(CERAMIC)	BASE: METAL ANGLES	BASE: WOOD	WAINSCOT: TILE(CERAMIC)	WAINSCOT: HEIGHT ABOVE FLOOR	TRIM: DOUGLAS FIR	TRIM: HARDWOOD	WALLS: CONCRETE	WALLS: PLAS. ON CONC	WALLS: KEENE CEM	WALLS: SMOOTH FINISH NON-STATIC SLOW BURNING	CEILING: PLAS. KEENE CEM	CEILING: CONCRETE	CEILING: HEIGHT ABOVE FLOOR	PAINTING: PLAS. WALLS	PAINTING: PLAS. CEILING	PAINTING: TRIM STAIN	PAINTING: TRIM ENAMEL	PAINTING: PAINT BEAMS AND GIRDERS	PAINTING: CONC. WALLS	PAINTING: CONC. CLG.	PAINTING: ENAMEL DADO HEIGHT	REMARKS
																													CEMENT FINISH ON FLOORS AS NOTED. NOTE "A": PLASTER ON METAL LATH AND STUD PARTITION. NOTE "B": EXPOSED CONCRETE WALLS – PLYWOOD WALL FORMS. E – ENAMEL P – PAINT ALL DOORS STAINED ALL EXTERIOR DOORS PAINTED ON OUTSIDE
101	EXERCISE ROOM		●					●				●		●					●						E			NOTE "B", PAINT STEEL DECKING CEILING & ACOUSTIC TILE WALLS
102	BATTERY ROOM	●				●						●		●	✳				●						E			✳ SEE NOTE "A" ABOVE
103	WOMEN'S TOILET		●					●			5'-4¼"		●		●				●		E				E	E		NON SLIP FLOOR
104	LOUNGE			●					●			●			✳				●		E				E	P		✳ NOTE "A"
105	ENTRY			●					●			●			✳				●		E				E	P		
106	CLOSET			●					●			●			✳				●									✳ NOTE "A"
107	LOBBY			●	●				●			●			●		●			10'-4"	E			E			✳ NOTE "A"	ASPHALT TILE FLOOR-BORDER AND SPECIAL DESIGN, NOTE "B"
108	ENTRY			●					●			●			✳				●		E				E	P		✳ NOTE "A"
109	CLOSET			●					●			●			✳				●									✳ NOTE "A"
110	MEN'S TOILET		●					●			5'-4¼"		●		●				●		E				E	P		NON SLIP FLOOR
111	BOILER ROOM	●				●							●		●				●										
112	UNIFORM STORAGE ROOM	●				●						●			●				●									7'-0"	ENAMEL DADO
113	TEAM LOCKER ROOM	●				●						●			●				●		P			●			P	7'-0"	✳ NOTE "A", CEMENT FINISH FLOOR, ENAMEL DADO
114	LOCKER ROOM	●				●						●			●				●								E		
115	BOYS' TOILET		●					●			5'-4¼"		●		●	●			●		E						P	7'-0"	ENAMEL DADO
116	VESTIBULE	●				●						●			●	●			●		P			●			P	7'-0"	✳ NOTE "A"
117	SHOWER ROOM		●				●			●	6'-2⅝"		●						●						E	P			NON-SLIP FLOOR & TOP OF CURB, NOTE "B"
118	DRYING ROOM		●				●			●	6'-2⅝"		●						●						E	P			SEE DETAILS SHEET NO. 12, NOTE "B"
119	TOWEL ROOM		●				●					●							●					●	E	P			NON-SLIP FLOOR
120	SHOWER ROOM		●				●			●	6'-2⅝"		●						●						E	P			NOTE "B"
121	STORE ROOM			●					●			●			●	✳					P			●			P		✳ NOTE "A"
122	RECEPTION ROOM			●					●			●			●	●		●						●			P	7'-0"	ENAMEL DADO - ALL STIPPLED
123	OFFICE			●					●			●			●	●		●						●			R	7'-0"	ENAMEL DADO - ALL STIPPLED
124	FACULTY LOCKER ROOM		●					●				●			●	✳					E			●			E		✳ NOTE "A", NOTE "B"
125	FIRST AID ROOM			●					●			●			●	●		●			P			●			P	7'-0"	ENAMEL DADO, GREASE PROOF TILE (ASPHALT)
126	FIELD EQUIPMENT ROOM	●							●			●			●	✳					P			●			P		✳ NOTE "A"
127	ATHLETIC EQUIPMENT ROOM	●							●			●			●	✳					P			●			P		✳ NOTE "A"
128	CORRIDOR	●				●						●			●	●		●			P			●			P	7'-0"	ENAMEL DADO
129	JANITOR	●				●						●			●				●		E						E		
130	STORAGE ROOM	●							●			●			●				●		P			●			P	P	
131	HEALTH INSTRUCTION ROOM			●					●			●			●	✳		●		14'-0"	P			●			P	7'-0"	✳ NOTE "A", NOTE "B", ENAMEL DADO
132	CORRECTIVE ROOM		●					●				●			●	✳		●		14'-0"	P			●			P	7'-0"	✳ NOTE "A", NOTE "B", ENAMEL DADO
133	VISITING TEAM LOCKER ROOM	●				●						●			●	✳				●	P			●			P	7'-0"	✳ NOTE "A", NOTE "B", ENAMEL DADO
134	DRYING ROOM		●				●			●	6'-2⅝"		●							●	E	P					E	P	NON-SLIP FLOOR & TOP OF CURB, NOTE "B"
135	SHOWER ROOM		●				●			●	6'-2⅝"		●							●							E	P	NON-SLIP FLOOR & TOP OF CURB, NOTE "B"
136	BOYS' TOILET		●				●			●	5'-4¼"		●		●	●				●	E						E		NON-SLIP FLOOR &
137	CLOSET	●							●			●			●	●				●	E						E		
138	ENTRY	●				●						●			●	●		●			P						P	7'-0"	ENAMEL DADO
139	EVENING SCHOOL OFFICE			●					●			●			●	✳				●	E				E	P		✳ NOTE "A", NOTE "B"	
140	GOT ROOM			●					●			●			●	✳				●	E				E	P		✳ NOTE "A", NOTE "B"	
141	STORE ROOM			●					●			●			●	✳				●	P					P		✳ NOTE "A"	
142	TRANSFORMER VAULT	●											●		●					●									
143	SWITCHBOARD ROOM	●											●		●					●									ASPHALTIC CONCRETE FLOOR
144	GAS METER ENCLOSURE												●		●	✳				●									✳ NOTE "A"
145	STORAGE ROOM	●				●						●			●					●									ENAMEL WOOD WALL
	TICKETS	●				●			●			●			●					●					●		E		
	FAN ROOM NO 1	●											●		●					●									
	FAN ROOM NO 2	●											●		●					●									
	FAN ROOM NO 3	●							●				●		●	✳			●										✳ NOTE "A", CEILINGS - FIRE RESISTIVE PLASTER



GAS ENCLOSURE AT ADMINISTRATION BLDG. SEE PLOT PLAN
SCALE: 1" = 1'-0"

LEGEND

- PRESENT GRADE CONTOURS 793.0
- FINISH GRADE CONTOURS 793.0
- PRESENT FLOW LINE
- FINISH FLOW LINE
- GRADING LIMIT
- EXISTING GRADES ·793.1
- FINISH GRADES 794.0
- ASPHALTIC CONCRETE A.C.
- TREES
- TREES MARKED THUS TO BE REMOVED
- NEW ASPHALTIC CONCRETE 2" THICK
- EXIST. FENCE
- EXIST. FENCE TO BE REMOVED
- NEW OR RESET FENCE

BENCH MARK
L & T W. END BOTTOM STEP N. END ADMINISTRATION BLDG.
ELEVATION 795.87

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ARCHITECTURE
APPLICATION NO.
APPROVED
SUPERVISING STRUCTURAL ENGINEER

H.C. CHAMBERS AND LESTER HIBBARD
ARCHITECTS
124 WEST 4TH STREET
LOS ANGELES, CALIF.

ARCHITECT

WM. D. COFFEY
STRUCTURAL ENGINEER
649 SO. OLIVE ST.
LOS ANGELES
ENGINEER

E.L.E. CO.
MECHANICAL ENGINEERS
4121 SANTA MONICA BL.
LOS ANGELES

E.L.E. CO.
ELECTRICAL ENGINEERS
4121 SANTA MONICA BL.
LOS ANGELES

PLOT PLAN, LOCATION PLAN & ROOM SCHEDULE

BOYS PHYSICAL EDUCATION BUILDING
CANOGA PARK HIGH SCHOOL
6850 TOPANGA CANYON BOULEVARD
CANOGA PARK CALIFORNIA

PREPARED FOR THE
BOARD OF EDUCATION
LOS ANGELES CITY HIGH SCHOOL DISTRICT

JOB NO. D-1120

NOTED
APPR. 3
G.B. W.
L.H.
1

"AS BUILT"

8571.00

DRAWING NO. G-7	
REVISED	PLOT PLAN
REVISIONS	CANOGA PARK HIGH SCH
DATE / DEV'D. CK'D	DRAWING MADE BY BUSINESS DEPARTMENT BOARD OF EDUCATION L.A. CITY DISTRICT -BUSINESS MANAGER SUPERVISOR
Added Fence Mark. R.H.S.	1448 S. SAN PEDRO ST. - LOS ANGELES CAL.
Revised Electric Shop R.H.S.	
Revised Gym Addition R.H.S.	
Revised Fence Mark. R.H.S.	

DATE Nov 1946 | TRACED | CHECKED | JOB NO. | SHEET NO.

8571.00 G-7 CM-9 Sh-1

SCALE 1IN = 40FT

NOTE

GREEN HOUSE PAPER FROM FOUR HOUSES PAPER FROM

VANOWEN ST.

AVENUE

AVENUE

HART STREET

CANTU

TOPANGO

Bears Bridge Easmt Reserved 5-1-44

CORBETT CIR.

45'

S 89°-57'-25" W 300.74'

.13

.19

GYMNASIUM

CAFETERIA BUILDING

SHOP BLDG

SHED & GARAGE

ELECTRIC SHOP

CONC. WALK

ROOT BEER

Tennis Court (Type)

Foot Bank

G.C.V.

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N 42°-26'-18" W 410.46'

S 47°-33'-42" E 484.84'

N 42°-23'-16" W 142.13'

60' Channel Easmt L.A.Co. F.C.Dist. 7-18-1948

75' Channel Easmt L.A.Co. F.C. Dist. 1-18-1948

500' Radius Curve

N 32°-24'-32" W 296.51'

S 89°-57'-25" E 59.26'

S 0°-02'-35" W 79.5'

S 89°-57'-25" E 59.26'

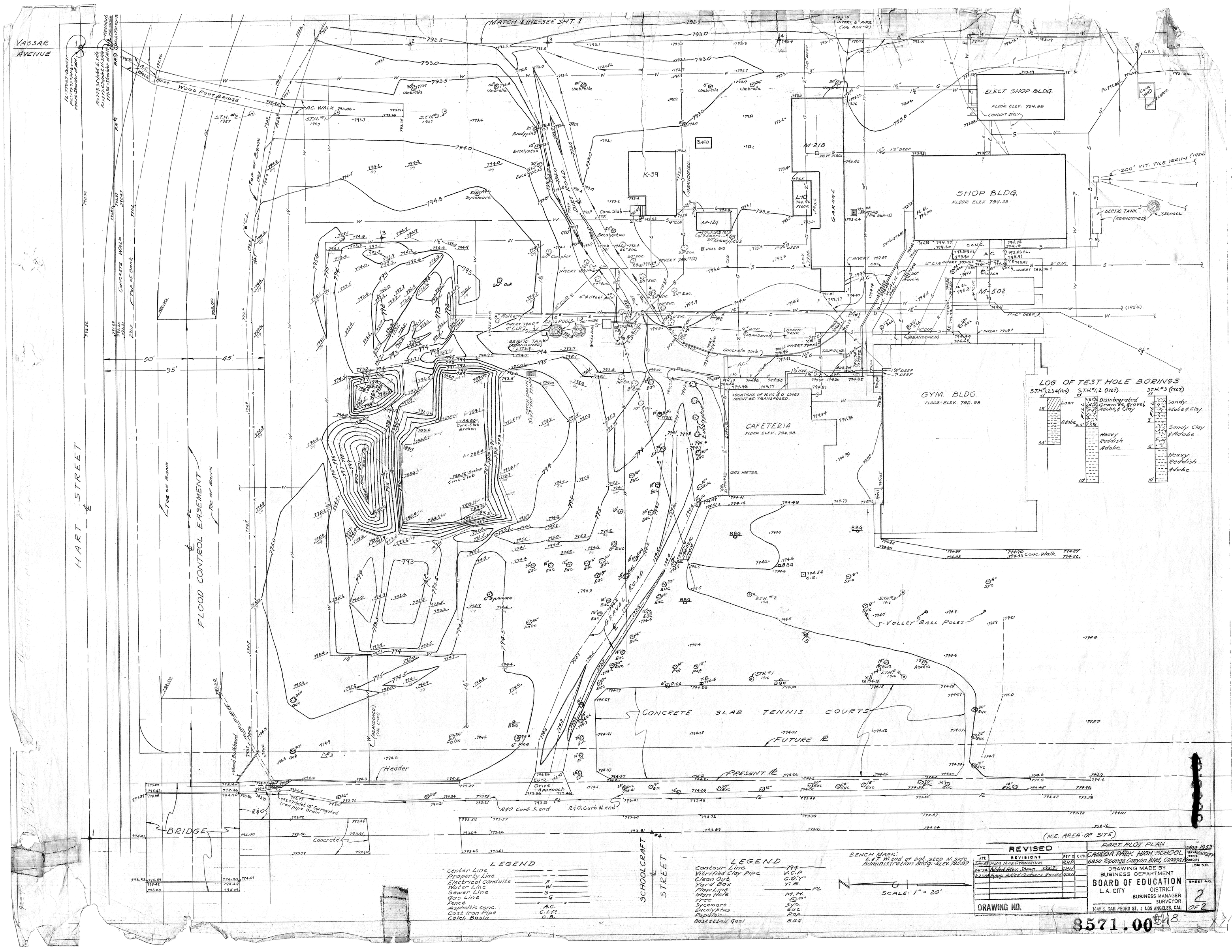
410.46'

AVENUE

La Jornada

Fence Line

SCALE 1INCH = 50FEET



MATCH LINE-SEE SHT. 1
VASSAR AVENUE
WOOD FOOT BRIDGE
A.C. WALK
HART STREET
FLOOD CONTROL EASEMENT
TOE OF BANK
CONCRETE WALK
ELECT. SHOP BLDG.
FLOOR ELEV. 794.98
CONDUIT ONLY
SHOP BLDG.
FLOOR ELEV. 794.03
300' VIT. TILE DRAIN (1924)
SEPTIC TANK (ABANDONED)
CESSPOOL
K-39
M-218
L-10
M-124
M-502
GARAGE
SHED
GYM. BLDG.
FLOOR ELEV. 795.98
CAFETERIA
FLOOR ELEV. 794.98
LOCATIONS OF H.W. & G. LINES MIGHT BE TRANSPOSED.
GAS METER
LOG OF TEST HOLE BORINGS
S.T.H. #1, 2, 3, 4 (1916)
S.T.H. #1, 2 (1927)
S.T.H. #3 (1927)
Loan
Adobe
Disintegrated Granite, Gravel, Adobe, & Clay
Heavy Reddish Adobe
Sandy Adobe & Clay
Sandy Clay & Adobe
Heavy Reddish Adobe
GRAVEL ROAD
VOLLEY BALL POLES
CONCRETE SLAB TENNIS COURTS
FUTURE ℄
PRESENT ℄
Header
Wood Bulkhead
Conc. Drive Approach
R&O Curb S. end
R&O Curb N. end
BRIDGE
Concrete
SCHOOLCRAFT STREET
(N.E. AREA OF SITE)
LEGEND
Center Line
Property Line
Electrical Conduits E
Water Line W
Sewer Line S
Gas Line G
Fence
Asphaltic Conc. A.C.
Cast Iron Pipe C.I.P.
Catch Basin C.B.
LEGEND
Contour Line 794
Vitrified Clay Pipe V.C.P.
Clean Out C.O.Y.
Yard Box Y.B.
Flow Line FL
Man Hole M.H.
Tree 20"
Sycamore Syc.
Eucalyptus Euc
Popular Pop
Basketball Goal BBG
BENCH MARK:
L.&T. W. end of bot. step N. side Administration Bldg. - ELEV. 795.87
SCALE: 1" = 20'
REVISED
ATE | REVISIONS | REV'D | CK'D
June 53 | Topog. N. of GYMNASIUM | RHP
2-6-54 | Added Elev. Shown 795.0 | GMN
2-25-54 | Topog. Added-Contours Revised | GMN
DRAWING NO.
PART PLOT PLAN
CANOGA PARK HIGH SCHOOL
6850 Topanga Canyon Blvd, Canoga Pk.
DRAWING MADE BY
BUSINESS DEPARTMENT
BOARD OF EDUCATION
DISTRICT
L.A. CITY
BUSINESS MANAGER
SURVEYOR
1445 S. SAN PEDRO ST. : LOS ANGELES, CAL.
MAR 1953
JOB NO.
SHEET NO. 2 OF 2
8571.00

APPENDIX G

Phase II Environmental Site Assessment

PRELIMINARY ENVIRONMENTAL ASSESSMENT – EQUIVALENT REPORT DRAFT FINAL

CANOGA PARK SENIOR HIGH SCHOOL
LOS ANGELES UNIFIED SCHOOL DISTRICT
6850 TOPANGA CANYON BOULEVARD
CANOGA PARK (LOS ANGELES), CALIFORNIA 91303

Prepared for

Los Angeles Unified School District
Office of Environmental Health and Safety
333 South Beaudry Avenue, 21st Floor
Los Angeles, California 90017

August 18, 2023

Prepared by

PARSONS 100 WEST WALNUT STREET • PASADENA • CALIFORNIA 91124

TABLE OF CONTENTS

Executive Summary vi
1.0 Introduction 1
1.1 Objectives 2
1.1 Scope of Work 2
2.0 Summary of Site Background 3
2.1 Site History and Background 3
2.2 Phase 1 Environmental Site Assessment (2019) 3
2.3 PEA-E Workplan Technical Memorandum (2023) 5
3.0 Environmental Setting 6
3.1 Regional Physiographic Setting 6
3.2 Regional Geology 6
3.3 Regional Hydrogeology 8
4.0 Sampling Activities and Results 9
4.1 Sampling Activities 9
4.1.1 Notifications and Permitting 9
4.1.2 Utility Clearance 9
4.1.3 Soil Logging and Sample Collection 9
4.1.4 Equipment Decontamination and Investigation-Derived Waste 10
4.2 Preliminary Screening Levels (PSLs) 11
4.3 Soil Sampling Results 11
4.3.1 Metals 12
4.3.2 Organochlorine Pesticides 15
4.3.3 PCBs 15
4.3.4 Polycyclic Aromatic Hydrocarbons 16
4.3.5 TPH 16
4.3.6 VOCs 16
4.3.7 ACM 16
5.0 Delineation of Impacts in Soil 17

5.1 SB-1 17
5.2 SB-3 17
5.3 SB-5 18
5.4 SB-7 18
5.5 SB-20 18
5.6 SB-26 19
5.7 SB-28 19
5.8 SB-34 19
5.9 SB-38 20
5.10 SB-39 20
5.11 SB-44 20
5.12 SB-51 21
6.0 Survey of Impacted Areas 22
7.0 Deviations from Work Plan 23
8.0 Health and Safety 24
9.0 Public Participation 25
10.0 Findings, Conclusions and Recommendations 26
11.0 References 29

TABLES

TABLE 1 SAMPLING STRATEGY PLAN
TABLE 2 STEP-OUT SOIL SAMPLING
TABLE 3 ANALYTICAL RESULTS FOR ARSENIC, LEAD, MERCURY, NICKEL, AND HEXAVALENT CHROMIUM IN SOIL
TABLE 4 ANALYTICAL RESULTS FOR ORGANOCHLORINE PESTICIDES IN SOIL
TABLE 5 ANALYTICAL RESULTS FOR POLYCHLORINATED BIPHENYLS IN SOIL
TABLE 6 ANALYTICAL RESULTS FOR POLYCYCLIC AROMATIC HYDROCARBONS IN SOIL
TABLE 7 ANALYTICAL RESULTS FOR TOTAL PETROLEUM HYDROCARBONS IN SOIL
TABLE 8 ANALYTICAL RESULTS FOR VOLATILE ORGANIC COMPOUNDS IN SOIL
TABLE 9 ANALYTICAL RESULTS FOR ASBESTOS CONTAINING MATERIAL IN SOIL
TABLE 10 ESTIMATED VOLUMES OF IMPACTED SOIL

FIGURES

FIGURE 1 SITE LOCATION
FIGURE 2 CANOGA PARK SENIOR HIGH SCHOOL SITE MAP
FIGURE 2A SOIL SAMPLE RESULTS CENTRAL WESTERN PORTION OF SITE
FIGURE 2B SOIL SAMPLE RESULTS CENTRAL EASTERN PORTION OF SITE
FIGURE 2C SOIL SAMPLE RESULTS SOUTHERN PORTION OF SITE
FIGURE 3 KEY MAP SHOWING STEP-OUT SAMPLING AREAS
FIGURE 3A SAMPLE LOCATIONS AND IMPACTED AREA BOUNDARY SB-34
FIGURE 3B SAMPLE LOCATIONS AND IMPACTED AREA BOUNDARY SB-26 AND SB-28
FIGURE 3C SAMPLE LOCATIONS AND IMPACTED AREA BOUNDARY SB-5 AND SB-7
FIGURE 3D SAMPLE LOCATIONS AND IMPACTED AREA BOUNDARY SB-1 AND SB-3
FIGURE 3E SAMPLE LOCATIONS AND IMPACTED AREA BOUNDARY SB-20 AND SB-44
FIGURE 3F SAMPLE LOCATIONS AND IMPACTED AREA BOUNDARY SB-51
FIGURE 3G SAMPLE LOCATIONS AND IMPACTED AREA BOUNDARY SB-38 AND SB-39

APPENDICES

APPENDIX A PRELIMINARY SITE ASSESSMENT – EQUIVALENT WORK PLAN
APPENDIX B WORK NOTICE
APPENDIX C UTILITY LOCATOR REPORTS
APPENDIX D ASBESTOS WORKPLAN
APPENDIX E PANACEA CORING MONITORING REPORT
APPENDIX F FIELD BORING LOGS
APPENDIX G WASTE MANIFESTS
APPENDIX H LABORATORY ANALYTICAL REPORTS
APPENDIX I PROUCL OUTPUTS
APPENDIX J SURVEY

ACRONYMS

bgs	below ground surface
CalGEM	State of California Department of Conservation - Geologic Energy Management Division
CEQA	California Environmental Quality Act
CY	Cubic yards
DTSC	Department of Toxic Substances Control
ESA	Environmental Site Assessment
ft	feet
HASP	Health and Safety Plan
LAUSD	Los Angeles Unified School District
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
NAVD	North American Vertical Datum of 1988
OCP	Organochlorine Pesticides
OEHS	Office of Environmental Health and Safety
PAHs	Poly aromatic hydrocarbons
PCBs	Polychlorinated biphenyl's
PEA-E	Preliminary Environmental Assessment – Equivalent
PID	photoionization detector
p/L	picocuries per liter
PQL	Practical Quantitation Limit
PROUCL	USEPA ProUCL v5.2 software
PSL	Preliminary Screening Level
RAW	Removal Action Work Plan
RCRA	Resource Conservation and Recovery Act
RECs	Recognized Environmental Conditions
Report	Preliminary Environmental Assessment – Equivalent Report
Site	Canoga Park Senior High School
SCAQMD	South Coast Air Quality Management District
STLC	Soluble Threshold Limit Concentration
TCLP	Toxicity Characteristic Leaching Procedure
TPH	Total Petroleum Hydrocarbons
µg/kg	micrograms per kilogram
µg/L	micrograms per liter
UCL	upper confidence limit of the mean
USEPA	United State Environmental Protection Agency
VOCs	Volatile Organic Compounds
Work Plan	Preliminary Environmental Assessment – Equivalent Work Plan

EXECUTIVE SUMMARY

This *Preliminary Environmental Assessment – Equivalent Report* (Report) documents the results of soil sampling and laboratory analyses for the proposed Major Modernization project at Canoga Park Senior High School (Site) located at 6850 Topanga Canyon Boulevard in Canoga Park, California (**Figure 1**). This report has been prepared for the Los Angeles Unified School District (LAUSD) to present a summary of the sampling and analyses activities conducted for the proposed project area on the school campus.

The scope of work completed for this project was based on the Recognized Environmental Conditions (RECs) presented in the *Phase I Environmental Site Assessment Report* (Phase I ESA) [Eco & Associates, Inc. 2019], and to determine applicability of South Coast Air Quality Management District (SCAQMD) Rule 1466 at locations within the boundary of the proposed Major Modernization. The work was also conducted in general accordance with applicable regulatory guidance, including the *Preliminary Endangerment Assessment Guidance Manual* prepared by the California Department of Toxic Substances Control (DTSC), and direction from LAUSD.

A total of 52 initial boring locations were sampled at depths of 0 to 0.5-, 1.5 to 2.0-, and 2.5 to 3.0-ft bgs. The samples at 2.0- and 3.0-ft bgs were placed on hold with the analytical laboratory pending the results of the 0.5-ft sample. After review of the initial data generated from the 0.5-foot samples where concentrations exceeded preliminary screening levels, 24 samples from deeper depths were analyzed for constituents that exceeded their respective action levels. After LAUSD and Parsons' review of the soil analytical data from the initial 52 borings, 68 step-out borings were also completed.

Analytical results for the soil samples were compared with risk-based screening levels to determine if the analytes are present at concentrations that may represent a potential health risk. The screening levels are referred to here and after as preliminary screening levels (PSLs). For direct exposures to soils, the DTSC's (2015) *Preliminary Endangerment Assessment Guidance Manual* states that risk-based screening levels used should be "the USEPA Regional Screening Level (RSL) for residential land use, modified as necessary by the DTSC in HHRA Note 3." Thus, the screening levels used here are, in general, the USEPA RSLs (2023) unless DTSC (2022) has published a screening value of its own, termed the DTSC-SLs. PSLs for organochlorine pesticides (OCPs), polychlorinated biphenyls (PCBs), polycyclic aromatic hydrocarbons (PAHs), and volatile organic compounds (VOCs) were determined in this way. Constituents with special considerations are discussed in more detail in Section 4.2.

The following analytes were sampled for but were either not detected above their laboratory reporting limit, or if it detected, the result was below their respective PSL:

- Cadmium, nickel and mercury
- PAHs
- TPH
- VOCs
- Asbestos

Several analytes were detected above their respective PSLs, including hexavalent chromium, OCPs, and PCBs. PROUCL was used to support that those individual detections above PSLs for hexavalent chromium, OCPs, and PCBs can be left in place when considered from a site-wide perspective.

PROUCL was calculated for soil samples with an arsenic result less than 30 milligrams per kilogram (mg/kg). PROUCL was used to support that arsenic detections below 30 mg/kg can be left in place when considered from a site-wide perspective. Step-out sampling was conducted at boring locations with an arsenic result exceeding 30 mg/kg to delineate impacts that will be recommended for removal.

PROUCL was calculated for soil samples collected that did not exceed the Soluble Threshold Limit Concentration (STLC). PROUCL was used to support that lead detections that do not exceed the STLC threshold of 5.0/mg/L can be left in place when considered from a site-wide perspective. Step-out sampling was conducted at 4 sample locations with lead results that exceeded 5.0 mg/L for STLC to delineate impacts that will be recommended for removal.

An estimated 273 cubic yards (CY) of soil at 12 locations are impacted by arsenic and/or lead based on the results of the field investigation. Approximately 174 CY can be managed as non-hazardous waste (above PSL, but non-hazardous) and approximately 99 CY can be managed as non-Resource Conservation and Recovery Act (RCRA) [hazardous in California] hazardous waste.

Based on the findings in this Report, a *Soil Removal Plan* (SRP) should be developed for the Site to address areas with lead and/or arsenic-impacted shallow soil as identified in this PEA-E.

1.0 INTRODUCTION

This *Preliminary Environmental Assessment – Equivalent Report* (Report) documents the results of soil sampling and laboratory analyses for the proposed Major Modernization project at Canoga Park Senior High School (Site) located at 6850 Topanga Canyon Boulevard in Canoga Park, California (**Figure 1**). This report has been prepared for the Los Angeles Unified School District (LAUSD) to present a summary of the sampling and analyses activities conducted for the proposed project area on the school campus.

The Preliminary Environmental Assessment-Equivalent (PEA-E) was conducted as requested by the LAUSD's Office of Environmental Health and Safety (OEHS) based on their review of the *Preliminary Environmental Assessment – Equivalent Workplan* (Work Plan), dated March 30, 2023 (Parsons, 2023). It was also conducted in general accordance with applicable regulatory guidance, including the *Preliminary Endangerment Assessment Guidance Manual* prepared by the California Department of Toxic Substances Control (DTSC, 2015).

The goal of performing the scope of work described in the Work Plan was to determine if historical or recent activities or materials have adversely impacted the surface soil or shallow soil (0 to 3 feet below ground surface [bgs]), prior to grading and construction for the proposed Site modernization activities.

LAUSD is proposing to remove/improve the following areas at the Site (which are the subject of the Assessment):

- Demolition of Cafeteria Building and Lunch Shelter, 12 classrooms in portables and permanent buildings, Shop Building #1 and 3 J-Buildings.
- Construction of new Food Services/Classroom Building including 12 new classrooms with associated support spaces and covered walkways.
- Construction of new Home Restrooms/Concessions/Maintenance & Operations Building.
- Construction of new Visitors' Restrooms/Concessions Building.
- Exterior painting of all remaining buildings to provide a uniform appearance.
- Associated sitework, utilities, landscaping as required for new construction.
- Interim housing as required.
- Barrier removal to comply with Americans with Disability Act.
- Construction of new synthetic running track, new football field natural turf with irrigation, new long-jump, high-jump & shot put, and new scoreboard. Includes bleachers repairs/accessibility upgrades and miscellaneous site improvements as required.

The scope of work presented in the PEA-E Workplan, based on information provided in LAUSD's request for proposal, was designed to assess each of the areas of removal/improvement. The following subsections discuss the objectives and scope of work for this assessment.

1.1 OBJECTIVES

The objective of the sampling effort was to determine if environmental issues related to impacted soil will need to be mitigated either prior to or during the Site modernization activities described above. A determination will also be made as to whether or not the requirements of South Air Quality Management District (SCAQMD) Rule 1466 apply to soil handling activities.

Figure 2 depicts the initial soil boring locations. Soil samples were analyzed utilizing an off-site fixed laboratory. A brief description of the soil sampling strategy is provided in **Table 1**.

1.1 SCOPE OF WORK

The PEA-E scope of work consisted of the following:

- Preparation and distribution of an English and Spanish Assessment Work Notice (Notice) to parents of the school students, prior to commencing fieldwork. The Notice was also distributed to line-of-sight neighbors, faculty, parents of Canoga Park Senior High School students, properties within 500 feet of the school perimeter and laminated copies were posted at four locations around the perimeter of the school.
- Preparation of a Site-Specific Health and Safety Plan.
- Notification of the planned subsurface investigation to DigAlert. Boring locations were marked in the field using chalk-based paint and geophysical surveys were conducted prior to advancement of soil borings.
- Implementation of the Parsons Workplan (Parsons, 2023) as follows:
    - Completion of 52 initial soil borings (SB-1 through SB-8; SB-11 through SB-18; and SB-20 thru SB-55) to a maximum depth of three (3)-feet (ft) bgs to evaluate potential impacts in shallow soil from arsenic, lead, and organochlorine pesticides (OCPs) in the project area. At each of the boring locations, the 0.5-ft depth soil sample was analyzed and the step-down samples at 2.0-ft and 3.0-ft were placed on hold at the analytical laboratory pending review of analytical results from the 0.5-ft sample.
    - Soil in borings located near electrical transformers or switch gears (SB-24, SB-34, and SB-35) were analyzed for polychlorinated biphenyls (PCBs).
    - Soil in borings located near areas where volatile chemicals may have been stored in drums or other containers (SB-2, SB-3, SB-34, and SB-35), were analyzed for total petroleum hydrocarbons (TPH) and volatile organic compounds (VOCs).
    - A total of 20% of the shallow soil samples collected at 0.5-ft were analyzed to determine if results would require SCAQMD Rule 1466 monitoring during construction. In addition to arsenic, lead, and OCPs these soil samples were analyzed for cadmium, hexavalent chromium, mercury, nickel, polycyclic aromatic hydrocarbons (PAHs), PCBs, and asbestos.
    - Soil samples were screened using a photoionization detector (PID).
    - Preparation of this PEA-E Report.

2.0 SUMMARY OF SITE BACKGROUND

2.1 SITE HISTORY AND BACKGROUND

Canoga Park Senior High School had approximately 1,500 students in the grades 9-12, five (5) administrators, seventy-eight (78) teachers, and thirty-nine (39) support staff in the 2021-2022 school year. The campus initially opened in 1915 as Owensmouth High School and currently consists of 19 permanent buildings, 16 portable buildings, an athletic field, paved driveways and parking areas, and landscaping. The school campus is approximately 21.4 acres within Los Angeles County Assessor Parcel Number 2138-001-900 and located at 6850 Topanga Canyon Boulevard, Canoga Park, CA 91303.

The Site was undeveloped and vacant up to approximately 1914. In 1915, the Site was developed as Owensmouth High School with a single relatively large building (main classroom and administration building) located on the northwestern part of the property. Since 1931, the school has been referred to as Canoga Park High School (Eco, 2019).

In 1928, the school was comprised of a relatively large main building (main classroom and administration building) and three smaller buildings south of the main building located in the Site's northwestern portion including the Girls Gym building. The eastern half of the Site was primarily open land, with an agricultural grove in the southeast portion, and Bell Creek and Calabasas Creek, both creeks flowing toward the east. Between 1928 and 1938, two additional large school buildings, facing Topanga Canyon Boulevard and used as administration and for classrooms, were added in the southwest portion of the Site. Within that same period, the oval athletic track was moved to its current location in the central portion of the east half of the Site.

In 1939, the assembly hall was added on the Site's southwestern portion. Between 1952 and 1959, the original large school building and another small building, located in the northwest portion of the Site, were removed and converted to an athletic field. Between 1954 and 1958, the Cafeteria, the Boys Physical Education building, Class Room Building (Clrm Bldg) #2, Shop #2, and four storage buildings located south of the oval athletic track field were added. In 1960 and 1968, Clrm Bldg #3, the Music Building, Storage Unit Building #014DOP, and Clrm Bldg #4 were added.

During the period between 1974 and 1979, a major remodeling occurred that included removal of the two large main school buildings located on the southwest portion of the Site facing Topanga Canyon Boulevard as well as the cement concrete walks connecting the buildings. These were replaced by two other large buildings referred to as building Unit #1 and building Unit #2.

2.2 PHASE 1 ENVIRONMENTAL SITE ASSESSMENT (2019)

A Phase I Environmental Site Assessment (ESA) was prepared by Eco & Associates, Inc. (ECO) dated February 18, 2019, for the school Site. The Phase I ESA research indicated there were historical, potential, and other recognized environmental conditions (RECs) found in connection with the Site as indicated below:

1) An underground hydraulic lift was located in the southern portion of Shop #2.

2) The Vanowen Plaza Property located at 22017 Vanowen Street is currently being investigated under the oversight of the Los Angeles Regional Water Quality Control Board. Various dry cleaners occupied a unit in a building on this property from 1992 to 2009. Subsurface investigations showed that the soil, soil vapor, and groundwater are contaminated with perchloroethylene (PCE), trichloroethene (TCE) and other VOCs as a result of release(s) from the dry-cleaning operations. This case was still open as of July 2023.

Other RECS were also identified by ECO judged to have a relatively low probability of resulting in significant impact to the Site.

As a result of the primary and secondary RECs, ECO made the following recommendations:

Lead-Based Paint. Prior to disturbing soil at the Site, it is recommended that representative soil samples be collected within the associated area(s) and analyzed for lead. The results of the investigation should be used to determine if the lead concentrations in soil in these areas are a potential threat to human health.

Arsenic. Prior to disturbing any asphalt at the Site, it is recommended that representative soil samples be collected beneath the asphalt within the associated area(s) and analyzed for arsenic. The results of the investigation should be used to determine if the arsenic concentrations in soil in these areas are a potential threat to human health.

OCPs. Prior to their removal, it is recommended that representative soil samples be collected around wooden structures and analyzed for OCPs. The results of the investigation should be used to determine if the OCP concentrations in soil in these areas are a potential threat to human health.

Transformers. If future construction activities encroach into the immediate vicinity of pad-mounted transformers, it is recommended that the adjoining soil be assessed for the possible presence of PCBs prior to disturbing the soil around the transformers. The results of the investigation should be used to determine if there are detectable concentrations of PCBs in this soil and if the detectable PCBs are a potential threat to human health.

Hydrocarbons. Due to the previous use of the southern part of building Shop #2 as an auto shop, the presence of underground lifts, and an associated clarifier, this area was considered a potential REC. However, the extent of a potential leak is expected to be limited in the soils below the building due to the heavy nature of the hydraulic fluid. Assessment of the soils below the building and clarifier for the possible presence of hydrocarbons is recommended if future construction activity is planned that will disturb soil beneath the building.

Radon. Due to the high potential for indoor-radon levels above 4.0 microcuries per liter at the Site and its surroundings, it is recommended that radon mitigation measures be included in any future buildings or additions.

2.3 PEA-E WORKPLAN TECHNICAL MEMORANDUM (2023)

The PEA-E Technical Workplan Memorandum was prepared by Parsons in 2023 to characterize potential environmental impacts present in Site soils in the proposed project areas. Based on the former activities on the property, and age of the buildings, it is possible that lead based paint (lead), arsenic, OCPs, PCBs from transformers, TPH and VOCs from auto shop operations at the Site may be present in shallow soil (Parsons, 2023). The Workplan was approved by LAUSD and is presented in **Appendix A**.

3.0 ENVIRONMENTAL SETTING

The information presented in this section provide environmental setting information, including the topographic, geologic, and hydrogeologic characteristics of the subject property and surrounding area.

3.1 REGIONAL PHYSIOGRAPHIC SETTING

3.1.1 Location and Topographic Setting

The San Fernando Valley is a roughly triangular feature within the Transverse Ranges province, a region noted for its intense and relatively young deformation (Dibblee, et al., 1991). The Transverse Ranges province is a region of north-south shortening that extends east-west across the northwest-trending San Andreas fault system. Its topographic features and geologic structure trend east-west and are most strikingly developed in the Ventura Basin. The San Fernando Valley is south of the east end of the present Ventura Basin. The Santa Monica Mountains, part of the Transverse Ranges, form the southern margin of the San Fernando Valley. The northern margin of the San Fernando Valley is marked by a steep topographic front associated with the north-dipping Santa Susana thrust and Sierra Madre faults, part of a discontinuous, predominantly north-dipping thrust belt extending from the Santa Barbara Channel on the west to the San Bernardino Valley on the east (V.E. Langenheim, 2011).

The Site is approximately 27.4 acres. The Site elevation is 796 feet above sea level, and is bound by Hart Street to the north, Vanowen Street to the south, Jordan Avenue on the east and Topanga Canyon Boulevard to the west (ECO, 2019).

3.1.2 Nearest Surface Water Body

Two concrete lined channels cross the Site: Bell Creek that enters the Site at the northwest corner and Calabasas Creek that enters the Site at the central portion of the southern boundary. The confluence of both water bodies form the beginning of the Los Angeles River at the central portion of the eastern boundary of the Site (ECO, 2019). The Los Angeles River flows south toward the Pacific Ocean.

3.2 REGIONAL GEOLOGY

The Site is located in the western portion of the San Fernando Valley within the San Fernando Hydrologic Subarea. The western portion of this subarea contains sediments derived from the surrounding hills. The source material has high clay content, averaging 75 percent clay, 5 percent sand, and 20 percent gravel. The Valley fill extends to a depth of approximately 750 ft bgs. Underlying the Valley fill is the non-water bearing Modelo (Puente) Formation, which consists of marine arkose conglomerates, sandstones, and siliceous and diatomaceous shale (ECO, 2019).

3.2.1 Nearest Known Earthquake Faults

The nearest fault to the school site is the Chatsworth Fault, located approximately 2.88 miles northwest of the Site. This is a north-dipping reverse fault, approximately 20 kilometers in length, trending from the southwest to the northeast. The most recent surface rupture was in the Late Quaternary with an unknown rupture frequency and slip rate. There are no other known fault zones within 5 miles of the Site (ECO, 2019).

3.2.2 Potential for Liquefaction and Landslides

According to the California Geological Survey *Earthquake Zones of Required Investigation* Map containing earthquake fault and seismic hazard zones, the school property falls within "areas where historical occurrence of liquefaction, or local geological, geotechnical and groundwater conditions indicate a potential for permanent ground displacements such that mitigation as defined in Public Resources Code Section 2693(c) would be required." The school property does not fall within an identified earthquake-induced landslide zone (ECO, 2019).

According to the City of Los Angeles Planning Department's ZIMAS interactive mapping tool (http://zimas.lacity.org) accessed on June 28, 2023, the school property is not within a potential landslide area, Preliminary Fault Rupture Study Area, or an Alquist-Priolo Earthquake Fault Zone. This is based on soil type and historical depth to groundwater, not site-specific investigation.

3.2.3 Potential for Flooding

The school property is located in an "area of minimal flood hazard" (FEMA Flood Map, 2019) so the potential for flooding is considered low. In addition, the Site is well drained and is bound by two lined creeks, the Bell and Calabasas. Any flood water would be directed to the creeks and channeled east of the Site into the Los Angeles River (ECO, 2019).

3.2.4 Radon

The California Geologic Survey's Radon Potential Zone Map (prepared for the California Department of Health Services, Environmental Health Division, for Southern Los Angeles County dated January 2005) indicates the school property is within an area estimated to have a high potential for indoor radon levels above 4.0 Picocuries per liter (P/L) (ECO, 2019). Radon information for Los Angeles County indicates that the United States Environmental Protection Agency (USEPA) has categorized Los Angeles County as Zone 2 for radon; however, this school Site lies at the upper end of the Zone 2 scale (2 to 4 P/L). The USEPA radon recommended action level is 4 P/L.

3.2.5 Methane

According to the City of Los Angeles Planning Department's ZIMAS interactive mapping tool (http://zimas.lacity.org) accessed on June 28, 2023, the school property is not identified as or within a Methane Hazard Site.

3.2.6 Oil Fields and Wells

No known oil wells are located on-Site or adjacent to the school property per State of California Department of Conservation - Geologic Energy Management Division (CalGEM) Online Mapping

System (https://maps.conservation.ca.gov/doggr/wellfinder/#close). A review of the CalGEM oil well tracking maps (accessed June 28, 2023) did not identify any oil wells or natural gas fields located on the school property. The closest oil well is located more than one mile northwest of the school property, within the (former, now abandoned) Mission Oil Field.

Additionally, according to the Oil Wells, Oil Fields and Landfill Sites Map produced by the City of Los Angeles, Bureau of Engineering (2007), the school property is not located within or adjacent to a boundary of a productive oil field.

3.3 REGIONAL HYDROGEOLOGY

Based on records search conducted on the Los Angeles County, Department of Public works well database (http:dpw.lacounty.gov/general/wells/#), the groundwater beneath the Site is located at a depth range of between 763 and 786 feet above sea level. This range is based on data obtained from two wells located approximately 0.5 miles northeast and 0.5 miles west of the Site, respectively. Depth to groundwater has ranged historically from 15 to 20 feet bgs (ECO, 2019).

3.3.1 Groundwater Flow Direction

The groundwater flow direction beneath the Site is expected to flow toward the east, similar to the topographic gradient.

3.3.2 Groundwater Wells Within a 1-Mile Radius of the School Property

The nearest groundwater well identified in the County of Los Angeles Department of Public Works production well location database (accessed June 28, 2023) is active well #3580C, located near the intersection of Hart Street and Nita Avenue, approximately 0.45 miles west of the school property. The most recent depth to water measurement was 19.10 feet below grade (784.80 feet above sea level), on October 24, 2022. The next nearest well is active well #4708, which had a reported depth to water measurement of 31.44 feet below grade (760.16 feet above sea level), measured on April 13, 2021. This well is located approximately 0.6 miles northeast of the school property.

4.0 SAMPLING ACTIVITIES AND RESULTS

4.1 SAMPLING ACTIVITIES

The following subsections summarize the field activities conducted during the soil sampling and analyses. A total of 52 initial boring locations were sampled at depths of 0 to 0.5-, 1.5 to 2.0-, and 2.5 to 3.0-ft bgs. The samples at 2.0- and 3.0-ft bgs were placed on hold with the analytical laboratory pending the results of the 0.5-ft sample. After review of the initial data generated from the 0.5-foot samples where concentrations exceeded preliminary screening levels, 24 samples from deeper depths were analyzed for constituents that exceeded their respective action levels. After LAUSD and Parsons' review of the soil analytical data from the initial 52 borings, 68 step-out borings were also completed. The initial boring locations are depicted on **Figures 2a through 2c** and step out borings are depicted on **Figures 3a -through 3g**.

4.1.1 NOTIFICATIONS AND PERMITTING

Prior to intrusive fieldwork, pre-field noticed were prepared and distributed. Copies of the notices are included in **Appendix B.** Additional information on these notices can be found in section 9.0 of this PEA-E.

No regulatory permits were required to perform the work.

4.1.2 UTILITY CLEARANCE

Prior to the initial and step-out boring activities, the proposed boring locations were marked with white paint. Underground Service Alert of Southern California (DigAlert) was notified of the proposed work on March 28, June 6, and July 12, 2023, prior to initiating each sampling event. DigAlert contacted all utility owners of record within the Site vicinity and notified them of the planned subsurface investigation. All utility owners of record, or their designated agents, clearly marked the position of their utilities on the ground surface, the public right-of-way sidewalks, and street adjacent to the area designated for investigation, up to the school property line. LAUSD provided several available plans depicting locations of buildings, subsurface structures and utilities which were also reviewed prior to marking the boring locations.

The proposed borings were surveyed by Subsurface Surveys, Inc., a private utility locator on March 31, April 3, June 12, and July 14, 2023, for the presence of underground utilities using geophysical methods (including ground-penetrating radar, electromagnetic utility locating, and deep search metal detector). Copies of the utility locating reports are provided in **Appendix C**. Based on the presence of several identified subsurface utilities, several of the proposed soil boring locations were relocated several feet to avoid utilities during hand augering. Relocation of borings was done in consultation with LAUSD.

4.1.3 SOIL LOGGING AND SAMPLE COLLECTION

Soil samples from the initial 52 borings were collected April 4 - 6, 2023. Step-out soil samples were collected June 12 – 15 and July 17, 2023. Borings with an asphalt or concrete surface were cored before samples were collected. Borings in asphalt where asbestos may be present were cored by certified asbestos personnel in accordance with a workplan provided in **Appendix D** that was reviewed and approved by Panacea Environmental, a certified asbestos consulting firm. Soil samples were collected using a hand auger at each location. Air sampling was performed by Panacea at areas where asphalt coring was needed. The air sampling report generated by Panacea is provided in **Appendix E**. Each soil sample was collected in a manner that minimized disturbance and allowed the sample to retain as much of the original structure as possible. Soil samples were collected in new laboratory-provided glass jars, which were then placed in individual sealable plastic bags. Each sample jar was labeled individually, stored in an ice chest containing ice, and delivered to a certified laboratory with a chain-of-custody form. Soil characteristics were logged on field boring logs (**Appendix F**). Per LAUSD instruction, borings were backfilled with leftover soil cuttings and clean sand, and the top approximately four (4) inches was set to the existing surface with like materials (i.e., asphalt, concrete or soil). Per LAUSD direction, after hand augering and sampling at each boring location, the asphalt core was placed back in the top of the borehole and capped with concrete to match existing grade.

Field screening was conducted at all soil borings sampled during this assessment using a PID. The PID was calibrated with 100 parts per million isobutylene gas at the beginning of each fieldwork day. Soil was placed into a resealable bag and allowed to sit exposed to the sun for approximately five (5) minutes, at which time the VOC concentration in the headspace was measured by inserting the PID probe inside the bag. The PID readings were recorded on the boring logs prepared by the field geologist during soil sampling activities.

4.1.4 Equipment Decontamination and Investigation-Derived Waste

Down-hole equipment used during soil sampling activities was decontaminated prior to use at each sampling point to reduce the potential for cross-contamination. Between boreholes, the head of the hand auger was decontaminated to minimize the potential for cross-contamination between samples.

Used personal protective equipment and disposable equipment was double-bagged and placed in the on-site dumpster. These wastes are not considered hazardous and were sent to a municipal landfill.

One (1) 55-gallon containing approximately 25 gallons of wash water from coring, was generated at areas where potential asbestos containing asphalt was located. The wash water drum was labeled and temporarily stored onsite pending disposal profiling. The drum was removed by Belshire Environmental Services, Inc. (BESI) on April 28, 2023. The investigative derived waste was disposed of at World Oil Recycling in Compton, California. Drum disposal documentation is provided in **Appendix G.**

4.2 PRELIMINARY SCREENING LEVELS (PSLS)

Analytical results for the soil samples were compared with risk-based screening levels to determine if the analytes are present at concentrations that may represent a potential health risk. The screening levels are referred to here and after as PSLs. For direct exposures to soils, the DTSC's (2015) *Preliminary Endangerment Assessment Guidance Manual* states that risk-based screening levels used should be "the USEPA Regional Screening Level (RSL) for residential land use, modified as necessary by the DTSC in HHRA Note 3." Thus, the screening levels used here are, in general, the USEPA RSLs (2023) unless DTSC (2022) has published a screening value of its own, termed the DTSC-SLs. PSLs for OCPs, PCBs, PAHs, and VOCs were determined in this way. Chemicals with special considerations are discussed in more detail below.

Arsenic: The residential risk-based screening levels from USEPA (2023) and DTSC (2022) of 0.68 and 0.11 milligrams per kilogram (mg/kg), respectively, are well below background concentrations. DTSC (2020) conducted a statistical evaluation of background data for arsenic in soils from Los Angeles, Orange, Riverside, San Bernardino, and San Diego Counties to derive an upper bound background threshold value for arsenic. Based on an evaluation of 1,086 data points, the DTSC (2020) derived a background threshold value for arsenic of 12 mg/kg, which is used here as the arsenic screening level.

Lead: Adverse health effects associated with exposure to lead have been correlated with concentrations of lead in whole blood. Although USEPA uses 10 micrograms per deciliter (µg/dl) as the threshold level of concern, California (OEHHA 2007) uses 1 µg/dl. A screening level of 80 mg/kg is protective of a 90th percentile estimate of 1 µg/dl blood lead concentration in children was calculated by Cal EPA (OEHHA 2009), which is used by DTSC (2022). This standard represents the concentration of lead in soil that will result in a 90th percentile estimate of a 1 µg/dl increase in blood lead in the most sensitive receptor (i.e., child or fetus). DTSC (2022) states that individual samples may exceed 80 mg/kg, as long as the 95% UCL is below 80 mg/kg and hot spots are not present.

Petroleum hydrocarbons: Neither DTSC (2022) nor USEPA (2023) provide risk-based screening levels for petroleum hydrocarbons as measured by USEPA Method 8015. Instead, DTSC (2015) recommends that the risk-based screening levels derived by the San Francisco Regional Board (2019) for direct contact be used. These values equate to 430 mg/kg for TPH as gasoline, 260 mg/kg for TPH as diesel, and 12,000 mg/kg for TPH as motor oil.

4.3 SOIL SAMPLING RESULTS

The soil samples were analyzed by American Environmental Testing Laboratory (AETL) in Burbank, California. Copies of the analytical laboratory reports are provided in **Appendix H**.

4.3.1 METALS

Shallow soil samples (0.5-ft bgs) at the 52 initial boring locations (SB-1 through SB-8; SB-11 through SB-18; and SB-20 thru SB-55) along with five (5) duplicates were collected and analyzed for lead and arsenic, using Environmental Protection Agency (EPA) Method 6010B for lead and EPA Method 6020 for arsenic. A total of 20% of the 0.5-ft samples were analyzed for cadmium, hexavalent chromium, nickel and mercury to determine if results would trigger SCAQMD Rule 1466 monitoring during construction. The results of the analyses for the metals tested are presented in **Table 3** and copies of the analytical laboratory reports are provided in **Appendix H**.

4.3.1.1 Arsenic

Detected arsenic concentrations ranged from 1.8J mg/kg (SB-46-D0.5) to 200 mg/kg (SB-34-D0.5) at 0.5-ft bgs in the initial sample locations. Based on a review of the sample results at 0.5-ft bgs there were 21 PSL exceedances for arsenic. To bound the vertical extent of arsenic, step-down samples at 2.0-ft bgs were analyzed for arsenic and 3.0-ft bgs if there was an exceedance at 2.0-ft bgs. The arsenic concentrations at 2.0-ft bgs ranged from 1.9 mg/kg (SB-16-D2.0) to 110 mg/kg (SB-34-D2.0) in the vertical step-down samples. There were PSL exceedances at nine of the twenty-one 2-ft locations (SB-01, SB-02, SB-03, SB-20, SB-34, SB-35, SB-38, SB-44 and SB-47) which required analysis of the 3.0-ft bgs samples. The arsenic concentrations at 3.0-ft bgs ranged from 4.5 mg/kg (SB-20-D3.0) to 47 mg/kg (SB-44-D3.0). The samples result at SB-44-D3.0 (47 mg/kg) exceeded the PSL for arsenic.

The site-wide 95% upper confidence limit of the mean (UCL) for arsenic was calculated using USEPA's ProUCL software (PROUCL)(USEPA, 2022) for soil samples collected by Parsons with a result less than 30 mg/kg. The UCLs calculated by PROUCL are provided in **Appendix I**. The recommended UCL for arsenic was 11.9 mg/kg. Step-out sampling was conducted at 9 initial boring locations with arsenic results that exceeded 30 mg/kg to delineate impacts that will be recommended for removal.

A total of 55 step-out samples and 9 duplicate samples were collected at 0.5-ft bgs to delineate arsenic at the 9 initial locations with an arsenic exceedance greater than 30 mg/kg. Detected arsenic concentrations ranged from 3.5 mg/kg (SB-7-S20-D0.5) to 630 mg/kg (SB-51-SW10-D0.5). A total of 46 step-out samples exceeded the PSL for arsenic at 0.5-ft bgs. A total of 45 step-down samples were analyzed at the step-out locations. Detected arsenic concentrations ranged from 3.5 mg/kg (SB-26-NW5-D2.0) to 350 mg/kg (SB-51-SW10-D2.0) in the step-down samples. The maximum depth that soil samples were collected and analyzed for arsenic was 3.0-ft bgs. **Table 2** presents the step-out samples collected in each direction from the initial sample, distance from the initial sample location, maximum depth of a step-out sample exceedance in each direction from the initial sample location, and the step-out restrictions (if any) at each location. **Figures 3a – 3g** show the step-out sampling locations for arsenic.

California Code of Regulations, Title 22, Chapter 11, Article 3, uses the Soluble Threshold Limit Concentration (STLC) to determine if various metals are California regulated hazardous waste.

The arsenic concentrations at multiple boring locations exceeded 50 mg/kg. These samples were analyzed for soluble arsenic and compared to the STLC threshold of 5 milligrams per liter (mg/L). The STLC limit was exceeded in the 0.5-ft samples at SB-5-20, SB-7-W10, SB-26-SW10, SB-26-E10, SB-26-SE10, SB-26-E25, SB-34-N10, SB-34-S10, SB-38-S10, SB-38-W5, SB-38-N10, SB-51-SW10, and SB-51-W5. The STLC result was exceeded in the 2.0-ft samples at SB-34, SB-51-W5, and SB-51-SW10. The STLC result was exceeded in the 3.0-ft sample at SB-51-SW10. The Resource Conservation and Recovery Act (RCRA) uses the Toxicity Characteristic Leaching Procedure (TCLP) analysis to determine if various metals are hazardous at a federal level. TCLP analyses were performed at all locations in which the STLC was exceeded. There were no exceedances of the TCLP for arsenic. Therefore, the soil associated with the STLC exceedance from samples SB-5-20, SB-7-W10, SB-26-SW10, SB-26-E10, SB-26-SE10, SB-26-E25, SB-34-N10, SB-34-S10, SB-38-S10, SB-38-W5, SB-38-N10, SB-51-SW10, and SB-51-W5 are non-RCRA hazardous.

4.3.1.2 Lead

Detected lead concentrations ranged from 0.625J[1] mg/kg (SB-46-D0.5) to 821DIL[2] mg/kg (SB-39-D0.5). The lead concentration at six shallow soil sample locations (including one duplicate) exceeded the PSL. To bound the vertical extent of lead, step-down samples at 2.0-ft bgs were analyzed for lead. The lead concentrations in all vertical step-down samples were below the PSL.

The site-wide 95% UCL for lead was calculated using PROUCL for soil samples collected by Parsons that did not exceed the STLC. The UCLs calculated by PROUCL are provided in **Appendix I**. The recommended UCL for lead was 18.75 mg/kg; well below the PSL of 80 mg/kg. Step-out sampling was conducted at 4 sample locations with lead results that exceeded 5.0 mg/L for STLC to delineate impacts that will be recommended for removal.

A total of 17 step-out samples and 5 duplicate samples were collected at 0.5-ft bgs to delineate arsenic at the 4 initial locations with a lead STLC exceedance greater than 5.0 mg/L. Detected lead concentrations ranged from 13.1 mg/kg (SB-39E-D0.5) to 252 mg/kg (SB-3-SE4-D0.5) at 0.5-ft bgs. A total of 7 step-out samples exceeded the PSL for lead. A total of 8 step-down samples were analyzed at the step-out locations. Detected lead concentrations ranged from 3.58 mg/kg (SB-SE15-D2.0) to 7.18 mg/kg (SB-3-SW5-D2.0). The maximum depth that soil samples were collected and analyzed for lead was 2.0-ft bgs. **Table 2** presents the step-out samples collected in each direction from the initial sample, distance from the initial sample location, maximum depth of a step-out sample exceedance in each direction from the initial sample location, and the step-out restrictions (if any) at each location. **Figures 3b, Figure 3d and Figure 3g** show the step-out sampling locations for lead.

The lead concentrations at multiple boring locations exceeded 50 mg/kg. These samples were analyzed for soluble lead to determine their STLC for waste characterization purposes and

[1] J indicates Analyte was detected. However, the analyte concentration is an estimated value.
[2] DIL indicates Result for the compound was reported from diluted analysis.

compared to the STLC threshold of 5 mg/L. The STLC result was exceeded in ten locations (SB-1, SB-1-SW5, SB-3, SB-3-SW5, SB-3-SE5, SB-3-S10, SB-28, SB-28-E10, SB-39, and SB-39-N5). Due to these exceedances, TCLP analyses were performed. There were no exceedances of the TCLP for lead. Therefore, the soil associated with STLC exceedances from locations SB-1, SB-1-SW5, SB-3, SB-3-SW5, SB-3-SE5, SB-3-S10, SB-28, SB-28-E10, SB-39, and SB-39-N5 are non-RCRA hazardous.

4.3.1.3 Hexavalent Chromium

A total of 17 shallow soil samples (0.5 ft bgs) including two (2) duplicate samples were collected and analyzed for hexavalent chromium by EPA Method 7199. Detected hexavalent chromium concentrations ranged from non-detect (multiple boring locations) to 0.53 mg/kg (SB-22-D0.5). The concentration at SB-22-D0.5 exceeded the PSL (0.3 mg/kg). To bound the vertical extent of hexavalent chromium, the step-down sample at 2.0-ft bgs was analyzed for hexavalent chromium. The hexavalent chromium concentration in the vertical step-down sample was below the PSL.

To bound the lateral extent of hexavalent chromium soil collected at 0.5 ft bgs from nearby borings (SB-21, SB-23, SB-24, and SB-25) was analyzed for hexavalent chromium. All concentrations were non-detect except for SB-21-D0.5 (0.58). The concentration at SB-21-D05 exceeded the PSL.

The site-wide 95% UCL for hexavalent chromium was calculated using PROUCL. The UCLs calculated by PROUCL are provided in **Appendix I**. The recommended UCL for hexavalent chromium was 0.285 mg/kg; below the PSL of 0.3 mg/kg.

4.3.1.4 Cadmium

A total of 17 shallow soil samples (0.5 ft bgs) including two (2) duplicate samples were collected and analyzed for cadmium by EPA Method 6010B. Detected cadmium concentrations ranged from non-detect (multiple boring locations) to 1.81J mg/kg (SB-53-D0.5). All sample results were below the PSL for cadmium (7.1 mg/kg).

4.3.1.5 Nickel

A total of 17 shallow soil samples (0.5 ft bgs) including two (2) duplicate samples were collected and analyzed for nickel by EPA Method 6010B. Detected nickel concentrations ranged from 12.5 mg/kg (SB-31-D0.5) to 25.5 mg/kg (SB-11-D0.5). All sample results were below the PSL for nickel (820 mg/kg).

4.3.1.6 Mercury

A total 17 shallow soil samples (0.5 ft bgs) including two (2) duplicate samples were collected and analyzed for mercury by EPA Method 7471A. Detected mercury concentrations ranged from non-detect (multiple boring locations) to 0.697 mg/kg (SB-26-D0.5Dup). All sample results were below the PSL for mercury (13 mg/kg).

4.3.2 ORGANOCHLORINE PESTICIDES

Shallow soil samples (0.5-ft bgs) at the 52 initial boring locations (SB-1 through SB-8; SB-11 through SB-18; and SB-20 thru SB-55) along with five (5) duplicates were collected and analyzed for OCPs by EPA Method 8081A. The OCP results are presented in **Table 4** and copies of the analytical laboratory reports are provided in **Appendix H**.

The laboratory results indicate that the only OCPs detected above the method detection limit in soil samples were for the following:

- Alpha-chlordane
- Gamma-chlordane
- Total chlordane
- 4,4'-DDD
- 4,4'-DDE
- 4,4'-DDT
- Dieldrin
- Endrin
- Heptachlor epoxide
- Toxaphene

The dieldrin detection at SB-32-D0.5 of 82.8 micrograms/kilogram (µg/kg) was the only OCP detection above PSLs. To bound the vertical extent of the dieldrin detection at SB-32-D0.5, a step-down sample at 2.0-ft bgs was analyzed for OCPs. The dieldrin concentration in the vertical sample at SB-32 was below the PSL.

The site-wide 95% UCL for dieldrin was calculated using PROUCL. The UCLs calculated by PROUCL are provided in **Appendix I**. The recommended UCL for dieldrin was 1.3 mg/kg; well below the PSL of 34 µg/kg.

4.3.3 PCBS

A total of 20 shallow soil samples (0.5 ft bgs) including two (2) duplicate samples were collected and analyzed for PCBs using EPA Method 8082. The PCB results are presented in **Table 5** and copies of the analytical laboratory reports are provided in **Appendix H**.

PCBs were detected above the method detection limit at only one (1) of the soil sample locations (SB-22-D0.5). The PCB detection (Aroclor-1254) at SB-22-D0.5 (293 ug/kg) was greater than the PCB-1254 PSL of 240 ug/kg. For this reason, the 2.0-ft bgs sample was analyzed and the result was below the PSL.

The site-wide 95% UCL for Aroclor 1254 was calculated using PROUCL. The UCLs calculated by PROUCL are provided in **Appendix I**. The recommended UCL for Aroclor 1254 was 42.46 µg/kg; well below the PSL of 240.

4.3.4 POLYCYCLIC AROMATIC HYDROCARBONS

A total of 17 shallow soil samples (0.5 ft bgs) including two (2) duplicate samples were collected and analyzed for PAHs using EPA Method 8270 SIM. PAHs were not detected above the PSL in any soil samples; therefore, no samples were analyzed from samples collected at 2.0-ft bgs and/or 3.0-ftbgs. The PAHs results are presented in **Table 6** and copies of the analytical laboratory reports are provided in **Appendix H**.

4.3.5 TPH

A total of five (5) shallow soil samples (0.5 ft bgs) including one (1) duplicate sample were collected and analyzed for TPH as gasoline (C4-C12), TPH as Diesel (C13-C22), and TPH as Heavy Hydrocarbons (C23-C40) by EPA Method 8015. TPH as gasoline was detected in two (2) samples (SB-36-D0.5 and SB-3-D0.5 DUP) at concentrations of 0.21 mg/kg and 0.228 mg/kg, respectively. TPH as diesel was detected in one (1) sample (SB-37-D0.5) at a concentration of 27.5 mg/kg. TPH as motor oil was not detected in any of the samples analyzed. None of the detected concentrations of TPH were greater than their respective PSLs. The analytical results are presented in **Table 7** and copies of the analytical laboratory reports are provided in **Appendix H**.

4.3.6 VOCs

A total of five (5) shallow soil samples (0.5 ft bgs) including one (1) duplicate sample were collected and analyzed for VOCs by EPA Method 8260. Three (3) VOCs were detected in the samples analyzed: acetone, benzene and toluene. Acetone was detected only in the samples collected from boring SB-3 (SB-3-D0.5 and SB-3-D0.5 DUP) at concentrations of 151 µg/kg and 132 µg/kg, respectively. Benzene was detected in three (3) samples: SB-2-D0.5 (0.587 J µg/kg); SB-36-D0.5 (0.933 J µg/kg); and SB-37-D0.5 (0.510 J µg/kg). Toluene was detected in all five (5) samples: SB-2-D0.5 (2.04 ug/kg); SB-3-D0.5 (2.73 µg/kg); SB-3-D0.5 DUP (2.50 µg/kg); SB-36-D0.5 (2.20 µg/kg); and SB-37-D0.5 (2.26 ug/kg). None of the detected concentrations of VOCs were greater than their respective PSLs. The analytical results are presented in **Table 8** and copies of the analytical laboratory reports are provided in **Appendix H**.

4.3.7 ACM

A total of 15 shallow soil samples (0.5 ft bgs) plus two duplicate samples were collected and analyzed for ACM by Method EPA 600/r-93-116 & EPA 600/M4-82-020. ACM was not detected in any of the 17 samples analyzed. The analytical results are presented in **Table 9** and copies of the analytical laboratory reports are provided in **Appendix H**.

5.0 DELINEATION OF IMPACTS IN SOIL

The lateral and vertical impacts in soil were attempted to be reached by establishing clean (i.e., < PSL) step-out sample locations or a sample restriction (i.e.: building, utility, fence, etc.) were encountered. **Table 2** identifies step-out distances and restrictions. **Table 10** includes an estimate of the volumes of impacted soil and their waste classifications. **Figures 3a to 3g** illustrate the locations of impacted soil. Below is a discussion on the delineation of impacts at each initial boring location.

5.1 SB-1

At boring SB-1**,** the lead concentration at the initial boring location exceeded the PSL of 80 mg/kg only in the shallow (0.5-ft bgs) sample. The arsenic concentration exceeded the PSL of 12 mg/kg in the 0.5-ft and 2.0-ft bgs samples but did not exceed the PSL in the 3.0-ft bgs sample. The lead and arsenic-impacted soil depth and areas are shown on **Figure 3d**. Step-out borings were conducted either 5 or 10 feet to the northwest, southwest, south or southeast directions of the initial SB-1 boring (existing building is immediately adjacent to the northeast). Four step-out borings were sampled for lead; one of which exceeded the lead PSL of 80 mg/kg in the 0.5-ft bgs samples (none exceeded in the step-out samples collected at 2.0-ft bgs). The step-out samples to the northeast and northwest of the initial location reported lead results that did not exceed the PSL. Seven step-out borings were sampled for arsenic; all of which exceeded the arsenic PSL of 12 mg/kg.

The vertical extent of lead-impacted soil exceedances was defined by conducting step-down sampling at the one initial and one step-out 2.0-ft bgs sample. Vertical impacts do not extend below 2-ft bgs in boring SB-1 initial or step-out location for lead. Vertical extent of arsenic-impacted soil exceedances was defined by conducting step-down sampling at one initial (2-ft and 3-ft bgs), six step-out 2.0-ft bgs, and two step-out 3-ft bgs samples. There are approximately 19 cubic yards (CY) of non-hazardous arsenic-impacted soil, and 7.5 CY of non-RCRA hazardous lead-impacted soil, associated with boring SB-1.

5.2 SB-3

At boring SB-3, the lead concentration at the initial boring location exceeded the PSL of 80 mg/kg only in the shallow (0.5-ft bgs) sample. The lead-impacted soil depth and area are shown on **Figure 3d**. Step-out borings were conducted either 5 or 10 feet to the northwest, southwest, south or southeast directions of the initial SB-3 boring (existing building is immediately adjacent to the northeast). Seven step-out borings were sampled; five of which exceeded the lead PSL in the 0.5-ft bgs samples (none exceeded in the step-out samples collected at 2.0-ft bgs). The step-out samples to the northwest and southwest of the initial location reported lead results that did not exceed the PSL.

The vertical extent of lead-impacted soil exceedances was defined by conducting step-down sampling at the one initial and four step-out 2.0-ft bgs samples. Vertical impacts do not extend below 2-ft bgs in boring SB-3 initial or the four step-out locations. There is approximately 13.6 CY of non-RCRA hazardous lead-impacted soil associated with boring SB-3.

5.3 SB-5

At boring SB-5, the arsenic concentration at the initial boring location exceeded the PSL of 12 mg/kg only in the shallow (0.5-ft bgs) sample. The arsenic-impacted soil depth and area are shown on **Figure 3c**. Step-out borings were conducted either 5, 10 or 15 feet to the northwest, northeast, west or east directions of the initial SB-5 boring (existing building is immediately adjacent to the south). Six step-out borings were sampled; four of which exceeded the arsenic PSL of 12 mg/kg in the 0.5-ft bgs samples (none exceeded in the step-out samples collected at 2.0-ft bgs). The step-out samples to the west and northeast of the initial location reported arsenic results that did not exceed the arsenic PSL.

The vertical extent of arsenic-impacted soil exceedances was defined by conducting step-down sampling at the one initial and four step-out 2.0-ft bgs samples. Vertical impacts do not extend below 2-ft bgs in boring SB-5 initial or 4 step-out locations. There are approximately 14 CY of non-hazardous arsenic-impacted soil, and 2.9 CY of non-RCRA hazardous arsenic-impacted soil, associated with boring SB-5.

5.4 SB-7

At boring **SB-7,** the arsenic concentration at the initial boring location exceeded the PSL of 12 mg/kg only in the shallow (0.5-ft bgs) sample. The arsenic-impacted soil depth and area are shown on **Figure 3c**. Step-out borings were conducted to the north, south and west directions of the initial SB-7 boring (existing building is immediately adjacent to the east). Nine step-out borings were sampled; six of which exceeded the arsenic PSL of 12 mg/kg in the 0.5-ft bgs samples (none exceeded in the step-out samples collected at 2.0-ft bgs). Three of the nine step-out samples (collected along the southern boundary of the SB-7 sample area) reported arsenic results that did not exceed the arsenic PSL.

The vertical extent of arsenic-impacted soil exceedances was defined by conducting step-down sampling at the one initial and nine step-out 2.0-ft bgs samples. Vertical impacts do not extend below 2-ft bgs in boring SB-7 initial or nine step-out locations. There are approximately 30 CY of non-hazardous arsenic-impacted soil, and 8 CY of non-RCRA hazardous arsenic-impacted soil, associated with boring SB-7.

5.5 SB-20

At boring SB-20, the arsenic concentration at the initial boring location exceeded the PSL in the shallow (0.5-ft bgs) and 2.0-ft bgs sample. The arsenic-impacted soil depth and area are shown on **Figure 3e**. Step-out borings were conducted five feet south of the initial SB-5 boring (storage shed

immediately east and utilities immediately north and west of the initial boring). The step-out boring did not exceed the PSL for arsenic.

The vertical extent of arsenic-impacted soil exceedances was defined by conducting step-down sampling at the one initial boring. Vertical impacts do not extend below 3-ft bgs in boring SB-20. There is approximately 10 CY of non-hazardous arsenic-impacted soil associated with boring SB-20.

5.6 SB-26

At boring SB-26**,** arsenic concentrations at the initial boring location exceeded the PSL only in the shallow (0.5-ft bgs) sample. The arsenic-impacted soil depth and area are shown on **Figure 3b**. Step-out borings were conducted in the four cardinal directions of the initial SB-26 boring. Twelve step-out borings were sampled; all of which exceeded the arsenic PSL at 0.5-ft bgs.

The vertical extent of arsenic-impacted soil exceedances was defined by conducting step-down sampling at the one initial and 12 step-out 2.0-ft bgs samples. Vertical impacts do not extend below 3.0-ft bgs in boring SB-26 initial or 12 step-out locations. There are approximately 39 CY of non-hazardous arsenic-impacted soil, and 20 CY of non-RCRA hazardous arsenic-impacted soil, associated with boring SB-26.

5.7 SB-28

At boring SB-28**,** lead concentrations at the initial boring location exceeded the PSL only in the shallow (0.5-ft bgs) sample. The lead-impacted soil depth and area are shown on **Figure 3b**. Step-out borings were conducted 10 feet to the east and west of the initial SB-28 boring (existing building north and utilities west of the initial boring). The lead PSL was not exceeded in the western step-out boring (SB-28-W10), and the eastern step-out boring exceeded the lead PSL in the 0.5-ft bgs sample, but not in the 2.0-ft bgs sample.

The vertical extent of lead-impacted soil was defined by the step-down sample results from the initial and eastern step-out 2.0-ft bgs samples. The lead result from the eastern step-out sample (SB-28-E10) at 2.0-ft bgs did not exceed the lead PSL. There is approximately 5.7 CY of non-RCRA hazardous lead-impacted soil associated with boring SB-28.

5.8 SB-34

At boring SB-34**,** arsenic concentrations at the initial boring location exceeded the PSL in shallow (0.5-ft bgs) soil and the 2.0-ft bgs samples, but was not exceeded in the 3.0-ft bgs sample. The arsenic-impacted soil depths and area are shown on **Figure 3a**. Step-out borings were conducted 10 feet to the north and 10 feet to the south of the initial SB-34 boring (building to west and utilities to east of initial boring). Step-out samples SB-34-N10-D0.5 and -D2.0 exceeded the PSL for arsenic. Step-out samples SB-34-S10-D0.5 exceeded the PSL of for arsenic; the sample at SB-34-S10-D2.0 did not exceed the PSL.

The vertical extent of arsenic-impacted soil exceedances was defined by conducting step-down sampling at all three SB-34 boring locations, with the exception of boring SB-34-S10, which had a reported arsenic PSL exceedance in the 3.0 ft bgs sample (and a deeper sample was not collected to determine vertical extent). Vertical impacts do not extend below 2.0-ft bgs at SB-34 or SB-34-N10. There are approximately 2.1 CY of non-hazardous arsenic-impacted soil, and 8.9 CYs of non-RCRA hazardous arsenic-impacted soil, associated with boring SB-34.

5.9 SB-38

At boring SB-38**,** arsenic concentrations at the initial boring location exceeded the PSL in the shallow (0.5-ft bgs) and 2.0-ft bgs sample. The arsenic-impacted soil depth and area are shown on **Figure 3g**. Step-out borings were conducted to the north, south, west, and southwest directions of the initial SB-38 boring (existing building is immediately adjacent to the east). Six step-out borings were sampled; four of which exceeded the arsenic PSL of 12 mg/kg in the 0.5-ft and 2.0-ft bgs samples.

The vertical extent of arsenic-impacted soil exceedances was defined by conducting step-down sampling at the initial and step-out borings. Vertical impacts do not extend below 3-ft bgs in boring at SB-38. There are approximately 10 CY of non-hazardous arsenic-impacted soil, and 20 cubic yards of non-RCRA hazardous arsenic-impacted soil, associated with boring SB-38.

5.10 SB-39

At boring SB-39**,** lead concentrations at the initial boring location exceeded the PSL only in the shallow (0.5-ft bgs) sample. The lead-impacted soil depth and area are shown on **Figure 3g**. Step-out borings were conducted to the north, south, and east directions of the initial SB-39 boring (existing building is immediately adjacent to the west). Four step-out borings were sampled; one of which exceeded the arsenic PSL.

The vertical extent of lead-impacted soil exceedances was defined by conducting step-down sampling at the initial and step-out boring. Vertical impacts do not extend below 2-ft bgs in boring at SB-39. There are approximately 6.3 CYs of non-RCRA hazardous arsenic-impacted soil associated with boring SB-38.

5.11 SB-44

At boring SB-44**,** arsenic concentrations at the initial boring location exceeded the PSL in the shallow (0.5-ft bgs) sample, 2-ft and 3-ft bgs samples. The arsenic-impacted soil depth and area are shown on **Figure 3e**. Step-out borings were conducted to the north, south, and west directions of the initial SB-44 boring (utility immediately adjacent to the east). Six step-out borings were sampled; five of which exceeded the arsenic PSL. The arsenic PSL was not exceeded in the western step-out boring (SB-44-W5).

The vertical extent of arsenic-impacted soil exceedances was not defined by conducting step-down sampling at the initial and step-out borings. Vertical impacts extend to 3-ft bgs at the initial and

step-out borings. There are approximately 34 CYs of non-hazardous arsenic-impacted soil associated with boring SB-44.

5.12 SB-51

At boring SB-51**,** arsenic concentrations at the initial boring location exceeded the PSL only in the shallow (0.5-ft bgs) sample. The arsenic-impacted soil depth and area are shown on **Figure 3f**. Step-out borings were conducted to the north, east, west and south directions of the initial SB-51 boring. Eight step-out borings were sampled; all of which exceeded the arsenic PSL.

The vertical extent of arsenic-impacted soil exceedances was not completely defined by conducting step-down sampling at the initial and step-out borings. Vertical impacts do not extend below 3-ft bgs at the initial and step-out borings except at boring SW-10. There are approximately 14 CY of non-hazardous arsenic-impacted soil, and 11 cubic yards of non-RCRA hazardous arsenic-impacted soil, associated with boring SB-51 (**Table 10**).

6.0 SURVEY OF IMPACTED AREAS

After soil boring activities were complete, the horizontal and vertical geographic positions of each boring associated with an impacted area was surveyed by Uniplan Engineering Inc.. Standard Survey Monuments found at the centerline intersections of Topanga Canyon Boulevard and Vanowen Street, and Topanga Canyon Boulevard and Hart Street were used for the assumed horizontal basis for this topographic map. The basis of bearings for this topographic map is the centerline of Topanga Canyon Boulevard (formerly Topanga Canyon Avenue) being "North," as shown on Tract No. 9267, MB. 136/98-99. The vertical datum shown hereon references North American Vertical Datum of 1988 (NAVD88) elevations and is based on the City of Los Angeles Benchmark No. 06-06688. The vertical accuracy for the sampling locations is ±0.01 foot. Copies of the survey information provided by Uniplan are included in **Appendix J**.

7.0 DEVIATIONS FROM WORK PLAN

Borings SB-9, SB-10, and SB-19 were not sampled due to utilities. Boring locations SB-54 and SB-55 were added during the Site walk with OEHS.

8.0 HEALTH AND SAFETY

Fieldwork was performed in accordance with the Parsons Health and Safety Plan (HASP) and the requirements of the LAUSD. A copy of the HASP was on-Site during the field activities. A tailgate safety meeting was conducted daily prior to the start of work. An Activity Hazard Analysis appropriate to each field task was reviewed and a daily toolbox meeting record was signed prior to the start of any work on-site. Subcontractor personnel were trained to meet all HASP requirements.

9.0 PUBLIC PARTICIPATION

The California Department of Education maintains various statistics. Among these statistics is that Spanish is the Learner Language for about eighty-four percent (84%) of the student body at the Site. For this reason, all notices should be in both English and Spanish.

Prior to commencing fieldwork, an English and Spanish Assessment Work Notice (Notice) was mailed to parents of the school students. The Notice (**Appendix B**) was also distributed to line-of-sight neighbors (residences and businesses), staff and faculty, and properties within 500 feet of the school perimeter. Laminated copies were also posted at four locations around the perimeter of the school.

Two versions of this PEA-E are being created: a draft and a final version. The difference between the two depends on if the public has had a chance to comment on the document as part of the California Environmental Quality Act (CEQA) approval process. The draft version is pre-public comment, and the final is post-public comment. The cover page of this document indicates which version of the document this is. The text of this section in this draft version will be revised in the final version to state:

- Where the draft PEA-E was posted online (likely to be https://www.lausd.org/siteassessment)
- When the public comment period occurred,
- Copies of all comments received, if any, and
- Responses to all comments in English and Spanish.

10.0 FINDINGS, CONCLUSIONS AND RECOMMENDATIONS

The following findings were derived from the soil sampling and analyses conducted at the Canoga Park Senior High School:

- **Arsenic** - The concentrations of arsenic in the samples analyzed from 21 of the 52 borings at 0.5-ft bgs were greater than the PSL of 12 mg/kg. In addition, six (6) of these samples had duplicates with concentrations that exceeded the arsenic PSL. Nine (9) stepdown samples from 2.0-ft bgs also had arsenic concentrations that exceeded the PSL. The site-wide 95% upper confidence limit of the UCL for arsenic was calculated using PROUCL for soil samples collected by Parsons with a result less than 30 mg/kg. The recommended UCL for arsenic for this subset of the data was 11.9 mg/kg. Step-out sampling was conducted at nine (9) initial boring locations with arsenic results that exceeded 30 mg/kg to delineate impacts that are recommended for removal. Step-down and lateral step-out sampling was conducted until the detected arsenic concentrations were below the PSL of 12 mg/kg, a building foundation was reached, access was limited, or multiple subsurface utilities were encountered. The arsenic concentrations at multiple boring locations exceeded 50 mg/kg requiring STLC analysis. The arsenic STLC result was exceeded in the 0.5-ft samples at SB-5-E20, SB-7-W10, SB-26-SW10, SB-26-SE10, SB-26-E10, SB-34-N10, SB-34-S10, SB-38-S10, SB-38-W5, SB-38-N10, SB-51-W5, and SB-51-SW10. The STLC result was exceeded in the 2.0-ft samples at SB-34, SB-51-W5, and SB-51-SW10. The STLC result was exceeded in the 3.0-ft sample at SB-51-SW10. TCLP analyses were performed at all locations in which the STLC was exceeded. There were no exceedances of the TCLP for arsenic. Therefore, the soil associated with the STLC exceedance from samples SB-7-W10, SB-26-E10, SB-34-N10, SB-34-S10, SB-38-S10, SB-38-W5, SB-38-N10, and SB-51W5 are non-RCRA hazardous, but hazardous in California.
- **Lead** - The concentrations of lead in the samples analyzed from the 0.5 ft bgs samples were greater than the PSL (80 mg/kg) in five (5) samples from the 52 initial boring locations. The step-down samples at 2.0-ft bgs vertically showed no detected concentrations greater than the PSL. The site-wide 95% UCL for lead was calculated using PROUCL for soil samples collected by Parsons that did not exceed the STLC. The recommended UCL for lead for this sub-set of data was 18.75 mg/kg. Step-out sampling was conducted at four (4) sample locations with lead results that exceeded 5.0 mg/L for STLC to delineate impacts that are recommended for removal. Step-down and lateral step-out sampling was conducted until the detected lead concentrations were below the PSL of 80 mg/kg, a building foundation was reached, access was limited, or multiple subsurface utilities were encountered. The lead concentrations at multiple boring locations exceeded 50 mg/kg requiring STLC analysis. The lead STLC result was exceeded in ten locations (SB-1, SB-1-SW5, SB-3, SB-3-SW5, SB-3-SE5, SB-3-S10, SB-28, SB-28-E10, SB-39, and SB-39-N5). Due to these exceedances, TCLP analyses were performed. There were no exceedances of the TCLP for lead. Therefore, the soil associated with STLC exceedances

from locations SB-1, SB-1-SW5, SB-3, SB-3-SW5, SB-3-SE5, SB-28, SB-28E10, SB-39, and SB-39N5 are non-RCRA hazardous, but hazardous in California.

- **Hexavalent Chromium** - A total 17 shallow soil samples (0.5 ft bgs) including two (2) duplicate samples were collected and analyzed for hexavalent chromium by EPA Method 7199. Detected hexavalent chromium concentrations ranged from non-detect (multiple boring locations) to 0.53 mg/kg (SB-22-D0.5). The concentration at SB-22-D0.5 exceeded the PSL (0.3 mg/kg). To bound the vertical extent of hexavalent chromium, the step-down sample at 2.0-ft bgs was analyzed for hexavalent chromium. The hexavalent chromium concentration in the vertical step-down sample was below the PSL. Several site-wide 95% UCLs for hexavalent chromium were calculated using PROUCL. The recommended UCL for hexavalent chromium was 0.285 mg/kg.

- **Cadmium, Nickel and Mercury** – A total of 17 shallow soil samples (0.5 ft bgs) including two (2) duplicate samples were collected and analyzed for cadmium, nickel, and mercury by EPA Method 6010B. Sample results for each metal were below their PSLs.

- **OCPs** - Shallow soil samples (0.5-ft bgs) at the 52 initial boring locations (SB-1 through SB-8; SB-11 through SB-18; and SB-20 thru SB-55) along with five (5) duplicates were collected and analyzed for OCPs by EPA Method 8081A. The dieldrin detection at SB-32-D0.5 at 82.8 µg/kg was the only OCP detection above PSLs. To bound the vertical extent of dieldrin detection at SB-32-D0.5, a step-down sample at 2.0-ft bgs was analyzed for OCPs. The dieldrin concentrations in the vertical sample at SB-32 was below the PSL. Several site-wide 95% UCLs for dieldrin were calculated using PROUCL. The recommended UCL for dieldrin was 1.3 mg/kg; which is below the PSL of 34 µg/kg.

- **PCBs** - A total of 20 shallow soil samples (0.5 ft bgs) including two (2) duplicate samples were collected and analyzed for PCBs using EPA Method 8082. The PCB detection (Aroclor-1254) at SB-22-D0.5 (293 ug/kg) was greater than the PSL. Given the detection of Aroclor-1254drin greater than the PSL in SB-22-D0.5, the 2.0-ft bgs sample was analyzed and the result was below the PSL. The site-wide 95% UCL for Aroclor-1245 was calculated using PROUCL. The recommended UCL for Aroclor-1254 was 42.46 µg/kg; which is below the Aroclor-1254 PSL of 240 ug/kg.

- **PAHs** - A total of 17 shallow soil samples (0.5 ft bgs) including two (2) duplicate samples were collected and analyzed for PAHs using EPA Method 8270 SIM. PAHs were not detected above the PSL in any soil samples; therefore, no samples were analyzed from samples collected at 2.0-ft bgs and/or 3.0-ft bgs.

- **TPH** - A total of five (5) shallow soil samples (0.5 ft bgs) including one (1) duplicate sample were collected and analyzed for TPH as gasoline (C4-C12), TPH as Diesel (C13-C22), and TPH as Heavy Hydrocarbons (C23-C40) by EPA Method 8015. None of the detected concentrations of TPH was greater than their respective PSLs.

- **VOCs** - A total of five (5) shallow soil samples (0.5 ft bgs) including one (1) duplicate sample were collected and analyzed for VOCs by EPA Method 8260. Three (3) VOCs were detected in the samples analyzed: acetone, benzene and toluene. None of the detected VOC concentrations was greater than their respective PSLs.
- **Asbestos** - A total of 15 shallow soil samples (0.5 ft bgs) plus two duplicate samples were collected and analyzed for ACM by Method EPA 600/r-93-116 & EPA 600/M4-82-020. ACM was not detected in any of the 17 samples analyzed.

The following conclusions were derived from the soil sampling and analyses conducted at the Canoga Park Senior High School:

- Detections, if any, of cadmium, nickel, mercury, PAHs, TPH, VOCs, and asbestos were all below levels of regulatory concern.
- PROUCL was used to support that individual detections above PSLs for hexavalent chromium, OCPs, and PCBs can be left in place when considered from a site-wide perspective.
- An estimated 273 CY of soil at twelve (12) locations are impacted by arsenic and/or lead based on the results of the field investigation. Approximately 174 CY can be managed as non-hazardous waste (above PSL, but non-hazardous) and approximately 99 CY can be managed as non-RCRA (hazardous in California) hazardous waste. The restrictions of SCAQMD Rule 1466 will apply to the excavation and offsite disposal of this soil.

The following recommendation is based on the above conclusions:

- A Soil Removal Plan (SRP) should be developed for the Site to address shallow soil impacted with lead and/or arsenic as identified in this PEA-E. The SRP should include the following:
  - Summary of this PEA-E,
  - Requirements for public participation,
  - Requirements/restrictions for excavation activities,
  - Requirements/restrictions for soil storage,
  - Requirements/restrictions for transportation,
  - Requirements/restrictions per Rule 1466,
  - Confirmation sampling program,
  - Requirements for a Soil Removal Completion Report.

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TABLES

Table 1
Sampling Strategy Plan
Preliminary Environmental Assessment - Equivalent
LAUSD - Canoga Park Senior High School

Boring Name	Sample Depth (feet bgs)	Analytes								Laboratory Analytical Method(s)	Comments
		Arsenic	Lead	OCPs	PCBs	Asbestos, PAHs	Title 22 Metals + CrVI	VOCs	TPH		
SB-01	0-0.5	X	X	X						EPA Methods 6010, 6020, 8081	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H						Archive	
	2.5-3	H	H	H						Archive	
SB-02	0-0.5	X	X	X				X	X	EPA Methods 6010, 6020, 8081, 8260, 8015	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H				H	H	Archive	
	2.5-3	H	H	H				H	H	Archive	
SB-03	0-0.5	X	X	X				X	X	EPA Methods 6010, 6020, 8081	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H				H	H	Archive	
	2.5-3	H	H	H				H	H	Archive	
SB-04	0-0.5	X	X	X						EPA Methods 6010, 6020, 8081	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H						Archive	
	2.5-3	H	H	H						Archive	
SB-05	0-0.5	X	X	X						EPA Methods 6010, 6020, 8081	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H						Archive	
	2.5-3	H	H	H						Archive	
SB-06	0-0.5	X	X	X	X	X	X			EPA Methods 6010, 6020, 8081, 7199, Asbetos PLM, 8082, 8270, 7470A	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H	H	H	H			Archive	
	2.5-3	H	H	H	H	H	H			Archive	
SB-07	0-0.5	X	X	X						EPA Methods 6010, 6020, 8081	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H						Archive	
	2.5-3	H	H	H						Archive	
SB-08	0-0.5	X	X	X						EPA Methods 6010, 6020, 8081	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H						Archive	
	2.5-3	H	H	H						Archive	
SB-09	0-0.5	X	X	X						EPA Methods 6010, 6020, 8081	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H						Archive	
	2.5-3	H	H	H						Archive	
SB-10	0-0.5	X	X	X						EPA Methods 6010, 6020, 8081	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H						Archive	
	2.5-3	H	H	H						Archive	
SB-11	0-0.5	X	X	X	X	X	X			EPA Methods 6010, 6020, 8081, 7199, Asbetos PLM, 8082, 8270, 7470A	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H	H	H	H			Archive	
	2.5-3	H	H	H	H	H	H			Archive	
SB-12	0-0.5	X	X	X						EPA Methods 6010, 6020, 8081	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H						Archive	
	2.5-3	H	H	H						Archive	
SB-13	0-0.5	X	X	X						EPA Methods 6010, 6020, 8081	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H						Archive	
	2.5-3	H	H	H						Archive	
SB-14	0-0.5	X	X	X						EPA Methods 6010, 6020, 8081	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H						Archive	
	2.5-3	H	H	H						Archive	
SB-15	0-0.5	X	X	X						EPA Methods 6010, 6020, 8081	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H						Archive	
	2.5-3	H	H	H						Archive	
SB-16	0-0.5	X	X	X						EPA Methods 6010, 6020, 8081	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H						Archive	
	2.5-3	H	H	H						Archive	
SB-17	0-0.5	X	X	X						EPA Methods 6010, 6020, 8081	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H						Archive	
	2.5-3	H	H	H						Archive	
SB-18	0-0.5	X	X	X						EPA Methods 6010, 6020, 8081	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H						Archive	
	2.5-3	H	H	H						Archive	
SB-19	0-0.5	X	X	X						EPA Methods 6010, 6020, 8081	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H						Archive	
	2.5-3	H	H	H						Archive	
SB-20	0-0.5	X	X	X	X	X	X			EPA Methods 6010, 6020, 8081, 7199, Asbetos PLM, 8082, 8270, 7470A	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H	H	H	H			Archive	
	2.5-3	H	H	H	H	H	H			Archive	
SB-21	0-0.5	X	X	X						EPA Methods 6010, 6020, 8081	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H						Archive	
	2.5-3	H	H	H						Archive	
SB-22	0-0.5	X	X	X	X	X	X			EPA Methods 6010, 6020, 8081, 7199, Asbetos PLM, 8082, 8270	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H	H	H	H			Archive	
	2.5-3	H	H	H	H	H	H			Archive	
SB-23	0-0.5	X	X	X						EPA Methods 6010, 6020, 8081	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H						Archive	
	2.5-3	H	H	H						Archive	
SB-24	0-0.5	X	X	X	X					EPA Methods 6010, 6020, 8081	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H	H					Archive	
	2.5-3	H	H	H	H					Archive	
SB-25	0-0.5	X	X	X						EPA Methods 6010, 6020, 8081	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H						Archive	
	2.5-3	H	H	H						Archive	
SB-26	0-0.5	X	X	X	X	X	X			EPA Methods 6010, 6020, 8081, 7199, Asbetos PLM, 8082, 8270, 7470A	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H	H	H	H			Archive	
	2.5-3	H	H	H	H	H	H			Archive	
SB-27	0-0.5	X	X	X						EPA Methods 6010B, 6020, 8081	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H						Archive	
	2.5-3	H	H	H						Archive	

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Boring Name	Sample Depth (feet bgs)	Analytes								Laboratory Analytical Method(s)	Comments
		Arsenic	Lead	OCPs	PCBs	Asbestos, PAHs	Title 22 Metals + CrVI	VOCs	TPH		
SB-28	0-0.5	X	X	X						EPA Methods 6010, 6020, 8081	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H						Archive	
	2.5-3	H	H	H						Archive	
SB-29	0-0.5	X	X	X						EPA Methods 6010, 6020, 8081	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H						Archive	
	2.5-3	H	H	H						Archive	
SB-30	0-0.5	X	X	X						EPA Methods 6010, 6020, 8081	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H						Archive	
	2.5-3	H	H	H						Archive	
SB-31	0-0.5	X	X	X	X	X	X			EPA Methods 6010, 6020, 8081, 7199, Asbetos PLM, 8082, 8270, 7470A	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H	H	H	H			Archive	
	2.5-3	H	H	H	H	H	H			Archive	
SB-32	0-0.5	X	X	X						EPA Methods 6010, 6020, 8081	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H						Archive	
	2.5-3	H	H	H						Archive	
SB-33	0-0.5	X	X	X	X	X	X			EPA Methods 6010, 6020, 8081, 7199, Asbetos PLM, 8082, 8270, 7470A	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H	H	H	H			Archive	
	2.5-3	H	H	H	H	H	H			Archive	
SB-34	0-0.5	X	X	X	X					EPA Methods 6010, 6020, 8081	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H	H					Archive	
	2.5-3	H	H	H	H					Archive	
SB-35	0-0.5	X	X	X	X					EPA Methods 6010, 6020, 8081	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H	H					Archive	
	2.5-3	H	H	H	H					Archive	
SB-36	0-0.5	X	X	X				X	X	EPA Methods 6010, 6020, 8081	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H				H	H	Archive	
	2.5-3	H	H	H				H	H	Archive	
SB-37	0-0.5	X	X	X				X	X	EPA Methods 6010, 6020, 8081	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H				H	H	Archive	
	2.5-3	H	H	H				H	H	Archive	
SB-38	0-0.5	X	X	X						EPA Methods 6010, 6020, 8081	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H						Archive	
	2.5-3	H	H	H						Archive	
SB-39	0-0.5	X	X	X	X	X	X			EPA Methods 6010, 6020, 8081, 7199, Asbetos PLM, 8082, 8270, 7470A	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H	H	H	H			Archive	
	2.5-3	H	H	H	H	H	H			Archive	
SB-40	0-0.5	X	X	X						EPA Methods 6010, 6020, 8081	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H						Archive	
	2.5-3	H	H	H						Archive	
SB-41	0-0.5	X	X	X						EPA Methods 6010, 6020, 8081	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H						Archive	
	2.5-3	H	H	H						Archive	
SB-42	0-0.5	X	X	X						EPA Methods 6010, 6020, 8081	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H						Archive	
	2.5-3	H	H	H						Archive	
SB-43	0-0.5	X	X	X						EPA Methods 6010, 6020, 8081	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H						Archive	
	2.5-3	H	H	H						Archive	
SB-44	0-0.5	X	X	X						EPA Methods 6010, 6020, 8081	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H						Archive	
	2.5-3	H	H	H						Archive	
SB-45	0-0.5	X	X	X	X	X	X			EPA Methods 6010, 6020, 8081, 7199, Asbetos PLM, 8082, 8270, 7470A	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H	H	H	H			Archive	
	2.5-3	H	H	H	H	H	H			Archive	
SB-46	0-0.5	X	X	X						EPA Methods 6010, 6020, 8081	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H						Archive	
	2.5-3	H	H	H						Archive	
SB-47	0-0.5	X	X	X	X	X	X			EPA Methods 6010, 6020, 8081, 7199, Asbetos PLM, 8082, 8270, 7470A	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H	H	H	H			Archive	
	2.5-3	H	H	H	H	H	H			Archive	
SB-48	0-0.5	X	X	X						EPA Methods 6010, 6020, 8081	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H						Archive	
	2.5-3	H	H	H						Archive	
SB-49	0-0.5	X	X	X						EPA Methods 6010, 6020, 8081	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H						Archive	
	2.5-3	H	H	H						Archive	
SB-50	0-0.5	X	X	X						EPA Methods 6010, 6020, 8081	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H						Archive	
	2.5-3	H	H	H						Archive	
SB-51	0-0.5	X	X	X						EPA Methods 6010, 6020, 8081	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H						Archive	
	2.5-3	H	H	H						Archive	
SB-52	0-0.5	X	X	X						EPA Methods 6010, 6020, 8081	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H						Archive	
	2.5-3	H	H	H						Archive	
SB-53	0-0.5	X	X	X	X	X	X			EPA Methods 6010, 6020, 8081, 7199, Asbetos PLM, 8082, 8270, 7470A	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H	H	H	H			Archive	
	2.5-3	H	H	H	H	H	H			Archive	
SB-54	0-0.5	X	X	X						EPA Methods 6010, 6020, 8081, 7199, Asbetos PLM, 8082, 8270, 7470A	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H						Archive	
	2.5-3	H	H	H						Archive	

OCPs = Organochlorine Pesticides (8081A)
Lead (6010)
Arsenic (6020)
PCBs = Polychlorinated biphenyls (8082)
VOCs = Volatile Organic Compounds (8260B)
TPH = Total petroleum hydrocarbons (full-carbon chain by 8015M)

Samples screened using a photo-ionization detector

TABLE 2
STEP-OUT SOIL SAMPLING
LAUSD - CANOGA PARK SENIOR HIGH SCHOOL

Initial Sample Location	COC Exceedance	Depth and Concentration of COC Exceedance at Intitial Sample Location	Stepouts				Step-out Sample Restriction
			Number of Step-outs	Direction	Distance (s) Feet	Max Depth of Step-out COC Exceedance	
SB-1	Arsenic	0.5 ft (12 mg/kg)	1	NE	5	No step out	Bell Creek Flood Control Channel
		2.0 ft (37 mg/kg)	2	NW	5, 10	2.0	
	Lead	0.5 ft (149 mg/kg)	3	SW	5, 10, 20	2.0	
			0	SE	NA	NA	Building
			1	W	10	0.5	
SB-3	Lead	0.5 ft (155 mg/kg)	1	NW	5	No exceedance	
			0	NE	NA	NA	Building
			2	SE	5, 10	0.5	
			1	SW	5, 10	0.5	
			2	S	10, 15	0.5	
SB-5	Arsenic	0.5 ft (34 mg/kg)	1	W	5	No exceedance	
			0	S	NA	NA	Building
			2	NW	5, 10	0.5	
			2	E	5, 20	0.5	
			1	NE	5	No exceedance	
SB-7	Arsenic	0.5 ft (42 mg/kg)	2	N	5, 10	0.5	
			2	W	5, 10	2.0	
			0	E	NA	NA	Building
			3	S	5, 10, 20	0.5	
			2	SW	20, 25	No exceedance	
SB-20	Arsenic	0.5 ft (45 mg/kg)	0	N	NA	NA	Utility
		2.0 (20 mg/kg)	0	W	NA	NA	Storage container
			1	S	5	No exceedance	
			0	E	NA	NA	Utility
			1	S	5	No exceedance	
			0	E	NA	NA	Utility
SB-26	Arsenic	0.5-ft (75 mg/kg)	1	NW	5	0.5	
			3	W	5, 10, 15	0.5	
			5	E	5, 10, 15, 25	0.5	
			2	S	5, 10	0.5	
			1	SE	10	0.5	
SB-28	Lead	0.5 ft (262 mg/kg)	1	E	10	0.5	
			0	N	NA	NA	Building
			0	S	NA	NA	Utility
			1	W	10	No exceedance	
SB-34	Arsenic	0.5 ft (200 mg/kg)	1	N	10	0.5	
			0	E	NA	NA	Utility
			0	W	NA	NA	Building
		2.0 ft (110 mg/kg)	1	S	10	2.0	
SB-38	Arsenic	0.5 ft (120 mg/kg)	2	N	5, 10	2.0	
		2.0 ft (12 mg/kg)	1	S	10	2.0	
			0	E	NA	NA	Building
			2	W	5, 10	2.0	
			1	SW	25	No exceedance	
SB-39	Arsenic	0.5 ft (16 mg/kg)	2	N	5, 10	0.5	
	Lead	0.5 ft (821 mg/kg)	1	S	5	No exceedance	
			0	W	NA	NA	Building
			1	E	5	No exceedance	
SB-44	Arsenic	0.5 ft (58 mg/kg)	3	N	5, 10, 20	2.0	
		2.0 ft (53 mg/kg)	2	S	10, 20	2.0	
			0	E	NA	NA	Utility
		3.0 ft (47 mg/kg)	1	W	5	No exceedance	
SB-51	Arsenic	0.5 ft (33 mg/kg)	1	N	5	0.5	
			3	S	5, 10, 15	0.5	
			1	SE	10	0.5	
			1	SW	10	2.0	
			1	W	5	2.0	
			1	E	5	0.5	

NA = Not Applicable
mg/kg = miligrams per kilogram
COC = Chemical of Concern

TABLE 3
ANALYTICAL RESULTS FOR ARSENIC, CADMIUM, LEAD, MERCURY, NICKEL AND HEXAVALENT CHROMIUM IN SOIL
LAUSD - CANOGA PARK SENIOR HIGH SCHOOL

		Sample Depth	Arsenic	Arsenic STLC	Arsenic TCLP	Cadmium	Lead	Lead STLC	Lead TCLP	Nickel	Hexavalent Chromium	Mercury[2]
Units		ft bgs	mg/kg	mg/L	mg/L	mg/kg	mg/kg	mg/L	mg/L	mg/kg	mg/Kg	mg/kg
Test Methods		--	EPA 6020	EPA 6010B	EPA 6010B	EPA 6010B	EPA 6010B	EPA 6010B	EPA 6010B	EPA 6010B	EPA 7199	EPA 7471A
Screening Levels[1]		--	12	5.0	5.0	7.1	80	5.0	5.0	820	0.3	13
Sample ID	Sample Date											
SB-1-D0.5	04/04/2023	0.5	12	-	-	-	149	5.28	0.00725J	-	-	-
SB-1-D2.0	04/04/2023	2.0	37	-	-	-	9.7	-	-	-	-	-
SB-1-D3.0	04/04/2023	3.0	4.8	-	-	-	-	-	-	-	-	-
SB-1-NE5-D0.5	06/12/2023	0.5	20	-	-	-	16.5	-	-	-	-	-
SB-1-NE5-D2.0	06/12/2023	2.0	5.8	-	-	-	-	-	-	-	-	-
SB-1-NW5-D0.5	06/12/2023	0.5	18	-	-	-	15.2	-	-	-	-	-
SB-1-NW5-D2.0	06/12/2023	2.0	18	-	-	-	-	-	-	-	-	-
SB-1-NW5-D3.0	06/12/2023	3.0	5.2	-	-	-	-	-	-	-	-	-
SB-1-NW10-D0.5	06/12/2023	0.5	11	-	-	-	-	-	-	-	-	-
SB-1-SW5-D0.5	06/12/2023	0.5	17	-	-	-	155	7.2	ND<0.5	-	-	-
SB-1-SW5-D0.5DUP	06/12/2023	0.5	14	-	-	-	129	6.3	ND<0.5	-	-	-
SB-1-SW5-D2.0	06/12/2023	2.0	18	-	-	-	6.06	-	-	-	-	-
SB-1-SW5-D3.0	06/12/2023	3.0	4.9	-	-	-	-	-	-	-	-	-
SB-1-SW10-D0.5	06/12/2023	0.5	12	-	-	-	30.3	-	-	-	-	-
SB-1-SW10-D2.0	06/12/2023	2.0	5.3	-	-	-	-	-	-	-	-	-
SB-1-SW20-D0.5	07/17/2023	0.5	27	-	-	-	-	-	-	-	-	-
SB-1-SW20-D2.0	07/17/2023	2.0	8.1									
SB-1-W10-D0.5	07/17/2023	0.5	12	-	-	-	-	-	-	-	-	-
SB-1-W10-D2.0	07/17/2023	2.0	8.0									
SB-2-D0.5	04/04/2023	0.5	13	-	-	-	45.3	-	-	-	-	-
SB-2-D2.0	04/04/2023	2.0	28	-	-	-	-	-	-	-	-	-
SB-2-D3.0	04/04/2023	3.0	5.0	-	-	-	-	-	-	-	-	-
SB-3-D0.5	04/04/2023	0.5	18	-	-	-	171	13.5	0.0663	-	-	-
SB-3-D0.5-DUP	04/04/2023	0.5	21	-	-	-	174	10.2	0.073	-	-	-
SB-3-D2.0	04/04/2023	2.0	15	-	-	-	8.39	-	-	-	-	-
SB-3-D3.0	04/04/2023	3.0	9.8	-	-	-	-	-	-	-	-	-
SB-3-NW5-D0.5	06/13/2023	0.5	-	-	-	-	77.9	1.7	-	-	-	-
SB-3-NW5-D0.5Dup	06/13/2023	0.5	-	-	-	-	59.3	-	-	-	-	-
SB-3-NW5-D2.0	06/13/2023	2.0	-	-	-	-	5.38	-	-	-	-	-
SB-3-SW5-D0.5	06/12/2023	0.5	-	-	-	-	158	7.1	ND<0.5	-	-	-
SB-3-SW5-D2.0	06/12/2023	2.0	-	-	-	-	7.18	-	-	-	-	-
SB-3-SW10-D0.5	06/12/2023	0.5					57.4	1.2	-	-	-	-
SB-3-SE5-D0.5	06/12/2023	0.5	-	-	-	-	252	8.2	ND<0.5	-	-	-
SB-3-SE5-D0.5DUP	06/12/2023	0.5	-	-	-	-	209	17	ND<0.5	-	-	-
SB-3-SE5-D2.0	06/12/2023	2.0	-	-	-	-	4.82J	-	-	-	-	-
SB-3-SE10-D0.5	06/12/2023	0.5	-	-	-	-	190	4.8	ND<0.5	-	-	-
SB-3-SE10-D2.0	06/12/2023	2.0	-	-	-	-	3.79 J	-	-	-	-	-
SB-3-S10-D0.5	07/17/2023	0.5	-	-	-	-	139	6.6	ND<0.5	-	-	-
SB-3-S10-D0.5DUP	07/17/2023	0.5	-	-	-	-	99.3	5.8		-	-	-
SB-3-S10-D2.0	07/17/2023	2.0	-	-	-	-	4.16J	-	-	-	-	-
SB-3-S15-D0.5	07/17/2023	0.5	-	-	-	-	108	1.8	ND<0.05	-	-	-
SB-3-S15-D2.0	07/17/2023	2.0	-	-	-	-	3.58J	-	-	-	-	-
SB-4-D0.5	04/04/2023	0.5	11	-	-	1.34 J	12.5	-	-	23.7	ND<0.2	0.0184 J
SB-5-D0.5	04/04/2023	0.5	34	-	-	-	13.2	-	-	-	-	-
SB-5-D2.0	04/04/2023	2.0	7.5	-	-	-	-	-	-	-	-	-
SB-5-E5-D0.5	06/12/2023	0.5	36	-	-	-	-	-	-	-	-	-
SB-5-E5-D2.0	06/12/2023	2.0	6.0	-	-	-	-	-	-	-	-	-
SB-5-E20-D0.5	07/17/2023	0.5	150	5.7	0.93	-	-	-	-	-	-	-
SB-5-E20-D0.5Dup	07/17/2023	0.5	160	7.6	1.2	-	-	-	-	-	-	-
SB-5-E20-D2.0	07/17/2023	2.0	9.7	-	-	-	-	-	-	-	-	-
SB-5-NE5-D0.5	06/12/2023	0.5	9.0	-	-	-	-	-	-	-	-	-
SB-5-NE5-D0.5Dup	06/12/2023	0.5	11	-	-	-	-	-	-	-	-	-
SB-5-NW5-D0.5	06/12/2023	0.5	40	-	-	-	-	-	-	-	-	-
SB-5-NW5-D2.0	06/12/2023	2.0	7.8	-	-	-	-	-	-	-	-	-
SB-5-W5-D0.5	06/12/2023	0.5	5.7	-	-	-	-	-	-	-	-	-
SB-5-W15-D0.5	07/17/2023	0.5	29	-	-	-	-	-	-	-	-	-
SB-5-W15-D2.0	07/17/2023	2.0	8.9									
SB-6-D0.5	04/05/2023	0.5	8.8	-	-	ND<1.24	5.19	-	-	19.5	ND<0.2	0.0232 J
SB-7-D0.5	04/05/2023	0.5	37	-	-	-	13.7	-	-	-	-	-
SB-7-D0.5-Dup	04/05/2023	0.5	42	-	-	-	15.7	-	-	-	-	-
SB-7-D2.0	04/05/2023	2.0	7.5	-	-	-	-	-	-	-	-	-
SB-7-N5-D0.5	06/14/2023	0.5	38	-	-	-	-	-	-	-	-	-
SB-7-N5-D2.0	06/14/2023	2.0	5.9	-	-	-	-	-	-	-	-	-
SB-7-N10-D0.5	06/14/2023	0.5	14	-	-	-	-	-	-	-	-	-
SB-7-N10-D2.0	06/14/2023	2.0	6.4	-	-	-	-	-	-	-	-	-
SB-7-W5-D0.5	06/14/2023	0.5	23	-	-	-	-	-	-	-	-	-
SB-7-W10-D0.5	06/14/2023	0.5	94	6.9	0.93	-	-	-	-	-	-	-
SB-7-W10-D2.0	06/14/2023	2.0	8.9	-	-	-	-	-	-	-	-	-
SB-7-S5-D0.5	06/14/2023	0.5	18	-	-	-	-	-	-	-	-	-
SB-7-S5-D0.5Dup	06/14/2023	0.5	18	-	-	-	-	-	-	-	-	-
SB-7-S5-D2.0	06/14/2023	2.0	6.3	-	-	-	-	-	-	-	-	-
SB-7-S10-D0.5	06/14/2023	0.5	25	-	-	-	-	-	-	-	-	-
SB-7-S10-D2.0	06/14/2023	2.0	9.9	-	-	-	-	-	-	-	-	-
SB-7-SW-25-D0.5	07/17/2023	0.5	6.5	-	-	-	-	-	-	-	-	-
SB-7-SW-20-D0.5	07/17/2023	0.5	7.3	-	-	-	-	-	-	-	-	-
SB-7-S20-D0.5	07/17/2023	0.5	3.5	-	-	-	-	-	-	-	-	-
SB-8-D0.5	04/04/2023	0.5	5.1	-	-	-	21.1	-	-	-	-	-
SB-11-D0.5	04/05/2023	0.5	5.0	-	-	ND<1.29	6.61	-	-	25.5	ND<0.2	0.0827 J
SB-12-D0.5	04/04/2023	0.5	8.7	-	-	-	7.97	-	-	-	-	-
SB-13-D0.5	04/05/2023	0.5	4.6	-	-	-	21	-	-	-	-	-
SB-14-D0.5	04/05/2023	0.5	4.7	-	-	-	16.4	-	-	-	-	-
SB-15-D0.5	04/03/2023	0.5	4.6	-	-	-	5.35	-	-	-	-	-
SB-16-D0.5	04/03/2023	0.5	6.6	-	-	-	3.93 J	-	-	-	-	-
SB-16-D0.5-Dup	04/03/2023	0.5	18	-	-	-	18.7	-	-	-	-	-
SB-16-D2.0	04/03/2023	2.0	1.9	-	-	-	-	-	-	-	-	-
SB-17-D0.5	04/06/2023	0.5	4.7 J	-	-	-	4.99 J	-	-	-	-	-
SB-18-D0.5	04/03/2023	0.5	4.0	-	-	-	6.39	-	-	-	-	-
SB-20-D0.5	04/06/2023	0.5	45	-	-	ND<1.26	9.47	-	-	17.6	ND<0.2	ND<0.018
SB-20-D2.0	04/06/2023	2.0	20	-	-	-	-	-	-	-	-	-
SB-20-D3.0	04/06/2023	3.0	4.5	-	-	-	-	-	-	-	-	-
SB-20-S5-D0.5	06/13/2023	0.5	5.0	-	-	-	-	-	-	-	-	-
SB-21-D0.5	04/03/2023	0.5	4.0	-	-	-	39.1	-	-	-	0.58	-
SB-22-D0.5	04/04/2023	0.5	9.7	-	-	ND<1.29	15.3	-	-	21.2	0.53	0.0777 J
SB-22-D2.0	04/04/2023	2.0	-	-	-	-	-	-	-	-	ND<0.2	-
SB-23-D0.5	04/03/2023	0.5	7.0	-	-	-	10.3	-	-	-	ND<0.2	-
SB-24-D0.5	04/03/2023	0.5	5.8	-	-	-	5.22	-	-	-	ND<0.2	-
SB-25-D0.5	04/03/2023	0.5	9.9	-	-	-	35	-	-	-	ND<0.2	-
SB-26-D0.5	04/03/2023	0.5	66	1.99	-	ND<1.29	11.5	-	-	18.9	ND<0.2	ND<0.0180
SB-26-D0.5-Dup	04/03/2023	0.5	75	3.23	-	ND<1.25	12.7	-	-	15.9	ND<0.2	0.697
SB-26-D2.0	04/03/2023	2.0	4.6	-	-	-	-	-	-	-	-	-
SB-26-W5-D0.5	06/12/2023	0.5	48	-	-	-	-	-	-	-	-	-
SB-26-W5-D2.0	06/12/2023	2.0	4.1	-	-	-	-	-	-	-	-	-
SB-26-W10-D0.5	06/12/2023	0.5	18	-	-	-	-	-	-	-	-	-
SB-26-W10-D2.0	06/12/2023	2.0	3.9	-	-	-	-	-	-	-	-	-
SB-26-W15-D0.5	07/17/2023	0.5	58	2.8								
SB-26-W-15D2.0	07/17/2023	2.0	7.5	-	-	-	-	-	-	-	-	-
SB-26-S5-D0.5	06/12/2023	0.5	35	-	-	-	-	-	-	-	-	-
SB-26-S5-D0.5Dup	06/12/2023	0.5	37	-	-	-	-	-	-	-	-	-
SB-26-S5-D2.0	06/12/2023	2.0	4.4	-	-	-	-	-	-	-	-	-
SB-26-S10-D0.5	06/12/2023	0.5	70	3.1	-	-	-	-	-	-	-	-
SB-26-S10-D2.0	06/12/2023	2.0	5.0	-	-	-	-	-	-	-	-	-
SB-26-SW10-D0.5	07/17/2023	0.5	200	9.6	1.6	-	-	-	-	-	-	-
SB-26-SW10-D2.0	07/17/2023	2.0	7.9			-	-	-	-	-	-	-
SB-26-E5-D0.5	06/12/2023	0.5	95	4.9	-	-	-	-	-	-	-	-
SB-26-E5-D2.0	06/12/2023	2.0	4.0	-	-	-	-	-	-	-	-	-
SB-26-E10-D0.5	06/12/2023	0.5	110	5.5	1.1	-	-	-	-	-	-	-
SB-26-E10-D2.0	06/12/2023	2.0	3.7	-	-	-	-	-	-	-	-	-
SB-26-E15-D0.5	07/17/2023	0.5	87	4.7	-	-	-	-	-	-	-	-
SB-26-E15-D0.5Dup	07/17/2023	0.5	85	3.8	-	-	-	-	-	-	-	-
SB-26-E15-D2.0	07/17/2023	2.0	7.5	-	-	-	-	-	-	-	-	-
SB-26-E25-D0.5	07/17/2023	0.5	95	5.0	0.78	-	-	-	-	-	-	-
SB-26-E25-D2.0	07/17/2023	2.0	18	-	-	-	-	-	-	-	-	-

TABLE 3
ANALYTICAL RESULTS FOR ARSENIC, CADMIUM, LEAD, MERCURY, NICKEL AND HEXAVALENT CHROMIUM IN SOIL
LAUSD - CANOGA PARK SENIOR HIGH SCHOOL

		Sample Depth	Arsenic	Arsenic STLC	Arsenic TCLP	Cadmium	Lead	Lead STLC	Lead TCLP	Nickel	Hexavalent Chromium	Mercury[2]
Units		ft bgs	mg/kg	mg/L	mg/L	mg/kg	mg/kg	mg/L	mg/L	mg/kg	mg/Kg	mg/kg
Test Methods		--	EPA 6020	EPA 6010B	EPA 6010B	EPA 6010B	EPA 6010B	EPA 6010B	EPA 6010B	EPA 6010B	EPA 7199	EPA 7471A
Screening Levels[1]		--	12	5.0	5.0	7.1	80	5.0	5.0	820	0.3	13
SB-26-E25-D3.0	07/17/2023	3.0	4.8	-	-	-	-	-	-	-	-	-
SB-26-SE10-D0.5	07/17/2023	0.5	110	6.0	0.86	-	-	-	-	-	-	-
SB-26-SE10-D2.0	07/17/2023	2.0	6.1	-	-	-	-	-	-	-	-	-
SB-26-NW5-D0.5	06/12/2023	0.5	14	-	-	-	-	-	-	-	-	-
SB-26-NW5-D2.0	06/12/2023	2.0	3.5	-	-	-	-	-	-	-	-	-
SB-27-D0.5	04/03/2023	0.5	10	-	-	-	8.47	-	-	-	-	-
SB-28-D0.5	04/06/2023	0.5	4.0	-	-	-	262	21.2	0.133	-	-	-
SB-28-D2.0	04/06/2023	2.0	-	-	-	-	10.7	-	-	-	-	-
SB-28-E10-D0.5	06/14/2023	0.5	-	-	-	-	111	8.7	0.071	-	-	-
SB-28-E10-D2.0	06/14/2023	2.0	-	-	-	-	5.88	-	-	-	-	-
SB-28-W10-D0.5	06/14/2023	0.5	-	-	-	-	25.7	-	-	-	-	-
SB-29-D0.5	04/03/2023	0.5	11	-	-	-	17.5	-	-	-	-	-
SB-30-D0.5	04/06/2023	0.5	5.3	-	-	-	25.4	-	-	-	-	-
SB-31-D0.5	04/06/2023	0.5	5.6	-	-	ND<1.29	5.87	-	-	12.5	ND<0.2	ND<0.018
SB-32-D0.5	04/06/2023	0.5	6.7	-	-	-	60.3	2.08	-	-	-	-
SB-33-D0.5	04/05/2023	0.5	8.7	-	-	ND<1.24	5.86	-	-	23.8	ND<0.2	0.0233 J
SB-34-D0.5	04/05/2023	0.5	200	9.25	2.28	-	11.6	-	-	-	-	-
SB-34-D2.0	04/05/2023	2.0	110	5.71	2.86	-	-	-	-	-	-	-
SB-34-D3.0	04/05/2023	3.0	10	-	-	-	-	-	-	-	-	-
SB-34-N10-D0.5	06/14/2023	0.5	240	16	3.3	-	-	-	-	-	-	-
SB-34-N10-D0.5Dup	06/14/2023	0.5	270	16	3.7	-	-	-	-	-	-	-
SB-34-N10-D2.0	06/14/2023	2.0	6.5	-	-	-	-	-	-	-	-	-
SB-34-S10-D0.5	06/14/2023	0.5	280	18	4.1	-	-	-	-	-	-	-
SB-34-S10-D2.0	06/14/2023	2.0	23	-	-	-	-	-	-	-	-	-
SB-34-S10-D3.0	06/14/2023	3.0	8.2									
SB-35-D0.5	04/05/2023	0.5	17	-	-	-	97.8	2.52	-	-	-	-
SB-35-D2.0	04/05/2023	2.0	14	-	-	-	6.85	-	-	-	-	-
SB-35-D3.0	04/05/2023	3.0	5.6	-	-	-	-	-	-	-	-	-
SB-36-D0.5	04/04/2023	0.5	5.2	-	-	-	5.37	-	-	-	-	-
SB-37-D0.5	04/04/2023	0.5	6.2	-	-	-	8.25	-	-	-	-	-
SB-38-D0.5	04/05/2023	0.5	83	4.12	-	-	6.7	-	-	-	-	-
SB-38-D0.5-Dup	04/05/2023	0.5	120	4.05	1.16	-	6.87	-	-	-	-	-
SB-38-D2.0	04/05/2023	2.0	12	-	-	-	-	-	-	-	-	-
SB-38-D3.0	04/05/2023	3.0	5.3	-	-	-	-	-	-	-	-	-
SB-38-S10-D0.5	06/13/2023	0.5	130	7.0	1.9	-	-	-	-	-	-	-
SB-38-S10-D2.0	06/13/2023	2.0	31	-	-	-	-	-	-	-	-	-
SB-38-S10-D3.0	06/13/2023	3.0	6.1	-	-	-	-	-	-	-	-	-
SB-38-N5-D0.5	06/13/2023	0.5	85	3.6	-	-	-	-	-	-	-	-
SB-38-N5-D2.0	06/13/2023	2.0	90	4.3	-	-	-	-	-	-	-	-
SB-38-N5-D3.0	06/13/2023	3.0	9.0	-	-	-	-	-	-	-	-	-
SB-38-N10-D0.5	06/13/2023	0.5	280	20	4.9	-	-	-	-	-	-	-
SB-38-N10-D2.0	06/13/2023	2.0	22	-	-	-	-	-	-	-	-	-
SB-38-N10-D3.0	06/13/2023	3.0	7.0	-	-	-	-	-	-	-	-	-
SB-38-W5-D0.5	06/13/2023	0.5	150	9.0	2.2	-	-	-	-	-	-	-
SB-38-W5-D0.5Dup	06/13/2023	0.5	170	9.4	2.5	-	-	-	-	-	-	-
SB-38-W5-D2.0	06/13/2023	2.0	88	4.0	-	-	-	-	-	-	-	-
SB-38-W5-D3.0	06/13/2023	3.0	6.3	-	-	-	-	-	-	-	-	-
SB-38-W10-D0.5	06/13/2023	0.5	8.3	-	-	-	-	-	-	-	-	-
SB-38-SW-25-D0.5	07/17/2023	0.5	8.8	-	-	-	-	-	-	-	-	-
SB-39-D0.5	04/05/2023	0.5	16 DIL	-	-	ND<1.3	821 DIL	6.82	0.129	20.8	ND<0.2	0.0327 J
SB-39-D2.0	04/05/2023	2.0	6.7	-	-	-	5.45	-	-	-	-	-
SB-39-N5-D0.5	06/13/2023	0.5	-	-	-	-	159	18	0.10	-	-	-
SB-39-N5-D2.0	06/13/2023	2.0	-	-	-	-	5.58	-	-	-	-	-
SB-39-N10-0.5	06/13/2023	0.5	-	-	-	-	13.5	-	-	-	-	-
SB-39-S5-D0.5	06/13/2023	0.5	-	-	-	-	24.2	-	-	-	-	-
SB-39-S5-D0.5Dup	06/13/2023	0.5	-	-	-	-	24.2	-	-	-	-	-
SB-39-E5-D0.5	06/13/2023	0.5	-	-	-	-	13.1	-	-	-	-	-
SB-40-D0.5	04/05/2023	0.5	7.0	-	-	-	10.1	-	-	-	-	-
SB-41-D0.5	04/05/2023	0.5	10	-	-	-	15.4	-	-	-	-	-
SB-42-D0.5	04/05/2023	0.5	4.4	-	-	ND<1.3	20.4	-	-	18.4	ND<0.2	0.0577 J
SB-43-D0.5	04/05/2023	0.5	24	-	-	-	20.7	-	-	-	-	-
SB-43-D2.0	04/05/2023	2.0	5.5	-	-	-	-	-	-	-	-	-
SB-44-D0.5	04/05/2023	0.5	58	2.37	-	-	16.9	-	-	-	-	-
SB-44-D2.0	04/05/2023	2.0	53	1.61	-	-	-	-	-	-	-	-
SB-44-D3.0	04/05/2023	3.0	47	-	-	-	-	-	-	-	-	-
SB-44-W5-D0.5	06/12/2023	0.5	7.8	-	-	-	-	-	-	-	-	-
SB-44-N5-D0.5	06/12/2023	0.5	36	-	-	-	-	-	-	-	-	-
SB-44-N5-D2.0	06/12/2023	2.0	11	-	-	-	-	-	-	-	-	-
SB-44-N10-D0.5	06/12/2023	0.5	31	-	-	-	-	-	-	-	-	-
SB-44-N10-D2.0	06/12/2023	2.0	22	-	-	-	-	-	-	-	-	-
SB-44-N10-D3.0	06/12/2023	3.0	9.9	-	-	-	-	-	-	-	-	-
SB-44-N20-D0.5	07/17/2023	0.5	45	-	-	-	-	-	-	-	-	-
SB-44-N20-D2.0	07/17/2023	2.0	59	2.4	-	-	-	-	-	-	-	-
SB-44-N20-3.0	07/17/2023	3.0	7.7	-	-	-	-	-	-	-	-	-
SB-44-S10-D0.5	06/12/2023	0.5	32	-	-	-	-	-	-	-	-	-
SB-44-S10-D2.0	06/12/2023	2.0	11	-	-	-	-	-	-	-	-	-
SB-44-S20-D0.5	07/17/2023	0.5	30	-	-	-	-	-	-	-	-	-
SB-44-S20-D2.0	07/17/2023	2.0	88	3.5	-	-	-	-	-	-	-	-
SB-44-S20-D3.0	07/17/2023	3.0	5.2	-	-	-	-	-	-	-	-	-
SB-45-D0.5	04/05/2023	0.5	4.2	-	-	ND<1.27	10.4	-	-	14.1	ND<0.2	0.0415 J
SB-46-D0.5	04/05/2023	0.5	1.8 J	-	-	-	0.625 J	-	-	-	-	-
SB-47-D0.5	04/05/2023	0.5	26	-	-	ND<1.3	13	-	-	25	ND<0.2	0.0286 J
SB-47-D2.0	04/05/2023	2.0	30	-	-	-	-	-	-	-	-	-
SB-47-D3.0	04/05/2023	3.0	7.9	-	-	-	-	-	-	-	-	-
SB-48-D0.5	04/06/2023	0.5	6.3	-	-	-	15.5	-	-	-	-	-
SB-49-D0.5	04/06/2023	0.5	11	-	-	-	9.32	-	-	-	-	-
SB-50-D0.5	04/04/2023	0.5	20	-	-	-	29.1	-	-	-	-	-
SB-50-D2.0	04/04/2023	2.0	7.5	-	-	-	-	-	-	-	-	-
SB-51-D0.5	04/04/2023	0.5	33	-	-	ND<1.29	3.93 J	-	-	16.1	ND<0.2	0.0211 J
SB-51-D2.0	04/04/2023	2.0	6.1	-	-	-	-	-	-	-	-	-
SB-51-N5-D0.5	06/13/2023	0.5	24	-	-	-	-	-	-	-	-	-
SB-51-N5-D2.0	06/13/2023	2.0	4.5	-	-	-	-	-	-	-	-	-
SB-51-S5-D0.5	06/13/2023	0.5	36	-	-	-	-	-	-	-	-	-
SB-51-S5-D2.0	06/13/2023	2.0	8.8	-	-	-	-	-	-	-	-	-
SB-51-S10-D0.5	07/17/2023	0.5	19	-	-	-	-	-	-	-	-	-
SB-51-S10-D2.0	07/17/2023	2.0	5.4	-	-	-	-	-	-	-	-	-
SB-51-SW10-D0.5	07/17/2023	0.5	630	37	4.1	-	-	-	-	-	-	-
SB-51-SW10-D2.0	07/17/2023	2.0	350	17	3.6	-	-	-	-	-	-	-
SB-51-SW10-D3.0	07/17/2023	3.0	210	9.3	1.9	-	-	-	-	-	-	-
SB-51-SE10-D0.5	07/17/2023	0.5	12	-	-	-	-	-	-	-	-	-
SB-51-SE10-D0.5DUP	07/17/2023	0.5	10	-	-	-	-	-	-	-	-	-
SB-51-SE10-D2.0	07/17/2023	2.0	6.3	-	-	-	-	-	-	-	-	-
SB-51-E5-D0.5	06/13/2023	0.5	33	-	-	-	-	-	-	-	-	-
SB-51-E5-D2.0	06/13/2023	2.0	4.3	-	-	-	-	-	-	-	-	-
SB-51-W5-D0.5	06/13/2023	0.5	94	5.7	1.0	-	-	-	-	-	-	-
SB-51-W5-D2.0	06/13/2023	2.0	110	7.0	1.5	-	-	-	-	-	-	-
SB-51-W5-D3.0	06/13/2023	3.0	11	-	-	-	-	-	-	-	-	-
SB-52-D0.5	04/04/2023	0.5	21	-	-	ND<1.30	2.65 J	-	-	16.4	ND<0.2	0.0217 J
SB-52-D2.0	04/04/2023	2.0	7.0	-	-	-	-	-	-	-	-	-
SB-53-D0.5	04/04/2023	0.5	13	-	-	1.81 J	31.3	-	-	24.4	ND<0.2	0.0272 J
SB-53-D0.5-DUP	04/04/2023	0.5	21	-	-	ND<1.25	24.2	-	-	16.3	ND<0.2	0.0258 J
SB-53-D2.0	04/04/2023	2.0	4.8	-	-	-	-	-	-	-	-	-
SB-54-D0.5	04/03/2023	0.5	19	-	-	-	4.13 J	-	-	-	-	-
SB-54-D2.0	04/03/2023	2.0	4.7	-	-	-	-	-	-	-	-	-
SB-55-D0.5	04/05/2023	0.5	21	-	-	-	23.1	-	-	-	-	-
SB-55-D2.0	04/05/2023	2.0	7.3	-	-	-	-	-	-	-	-	-

Notes:

1 - Residential screening levels were taken from the following sources:
Arsenic: DTSC. 2020. Southern California Ambient Arsenic Screening Level. HHRA Note 11. December.
Other metals: DTSC. 2022a. DTSC-modified Screening Levels. HHRA Note 3. May.

2 - Using mercuric chloride to represent mercury

Yellow highlighted cell = concentration exceeds respective screening level

Grey highlighted cell indicates step-out sample location

J = Analyte was detected. However, the analyte concentration is an estimated value, which is between the Method Detection Limit and the Reporting Limit.

ND = Analyte is not detected below the Mehod Detection Limit

mg/kg = miligrams per kilogram

ft bgs = feet below ground surface

mg/L - milligrams per liter

STLC - soluble threshold limit concentration

TCLP - Toxicity Characteristic Leaching Procedure

TABLE 4
ANALYTICAL RESULTS FOR ORGANOCHLORINE PESTICIDES IN SOIL
LAUSD - CANOGA PARK SENIOR HIGH SCHOOL

		Sample depth	Aldrin	alpha-Chlordane	gamma-Chlordane	4,4'-DDD	4,4'-DDE	4,4'-DDT	Chlordane (Total)	Dieldrin	Endrin	Endrin aldehyde	Heptachlor epoxide	Toxaphene	All other OCPs
Units		ft bgs	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
Screening Levels[1]		--	39	1700	1700	1900	2000	1900	1700	34	19000	NA	70	450	NA
Sample ID	**Date**														
SB-1-D0.5	04/04/2023	0.5	ND<0.0900	**8.33**	**6.99**	**0.807 J**	**1.83**	**7.07**	**15.3**	**0.385 J**	ND<0.106	ND<0.117	ND<0.101	ND<4.10	ND
SB-2-D0.5	04/04/2023	0.5	ND<0.0900	**0.313 J**	**0.173 J**	**0.296 J**	**3.36**	**2.52**	ND<1.00	**0.134 J**	ND<0.106	ND<0.117	ND<0.101	ND<4.10	ND
SB-3-D0.5	04/04/2023	0.5	ND<0.0900	**19.3**	**18.9**	**2**	**36.3**	**28.4**	**38.3**	**7.63**	**0.481 J**	ND<0.117	**0.789 J**	**68**	ND
SB-3-D0.5-DUP	04/04/2023	0.5	ND<0.180	**24.9**	**24.5**	**2.55**	**39.5**	**38.4**	**49.3**	**9.08**	**1.38**	ND<0.234	**1.05**	**366**	ND
SB-4-D0.5	04/04/2023	0.5	ND<0.0900	ND<0.121	ND<0.114	ND<0.0980	**0.647 J**	ND<0.235	ND<1.00	ND<0.0950	ND<0.106	ND<0.117	ND<0.101	ND<4.10	ND
SB-5-D0.5	04/04/2023	0.5	ND<0.0900	**1.15**	**0.727 J**	**0.148 J**	**2.01**	**1.41**	**1.88 J**	ND<0.0950	ND<0.106	ND<0.117	ND<0.101	ND<4.10	ND
SB-6-D0.5	04/05/2023	0.5	ND<0.09	ND<0.121	ND<0.114	ND<0.098	ND<0.093	**0.268 J**	ND<1	**0.135 J**	ND<0.106	ND<0.117	ND<0.101	ND<4.1	ND
SB-7-D0.5	04/05/2023	0.5	ND<0.09	**0.68 J**	**0.488 J**	ND<0.098	**1.22**	**0.967 J**	**1.17 J**	ND<0.095	ND<0.106	ND<0.117	ND<0.101	ND<4.1	ND
SB-7-D0.5-Dup	04/05/2023	0.5	ND<0.09	0.84 J	0.466 J	ND<0.098	**Depth (ft bgs)**	0.73 J	1.31 J	ND<0.095	0.128 J	ND<0.117	ND<0.101	ND<4.1	ND
SB-8-D0.5	04/04/2023	0.5	ND<0.0900	ND<0.121	ND<0.114	ND<0.0980	**0.246 J**	**0.375 J**	ND<1.00	ND<0.0950	ND<0.106	ND<0.117	ND<0.101	ND<4.10	ND
SB-11-D0.5	04/05/2023	0.5	ND<0.09	ND<0.121	ND<0.114	ND<0.098	ND<0.093	ND<0.235	ND<1	ND<0.095	ND<0.106	ND<0.117	ND<0.101	ND<4.1	ND
SB-12-D0.5	04/04/2023	0.5	ND<0.0900	ND<0.121	ND<0.114	ND<0.0980	ND<0.0930	ND<0.235	ND<1.00	ND<0.0950	ND<0.106	ND<0.117	ND<0.101	ND<4.10	ND
SB-13-D0.5	04/05/2023	0.5	ND<0.09	ND<0.121	ND<0.114	ND<0.098	**0.17 J**	**0.293 J**	ND<1	**0.32 J**	ND<0.106	ND<0.117	ND<0.101	ND<4.1	ND
SB-14-D0.5	04/05/2023	0.5	ND<0.09	ND<0.121	ND<0.114	ND<0.098	ND<0.093	ND<0.235	ND<1	ND<0.095	ND<0.106	ND<0.117	ND<0.101	ND<4.1	ND
SB-15-D0.5	04/03/2023	0.5	ND<0.0900	ND<0.121	ND<0.114	ND<0.0980	ND<0.0930	ND<0.235	ND<1.00	ND<0.0950	ND<0.106	ND<0.117	ND<0.101	ND<4.10	ND
SB-16-D0.5	04/03/2023	0.5	ND<0.0900	**1.08**	**0.989 J**	ND<0.0980	**0.580 J**	**1.41**	**2.07**	ND<0.0950	ND<0.106	ND<0.117	ND<0.101	ND<4.10	ND
SB-16-D0.5-Dup	04/03/2023	0.5	ND<0.0900	**1.23**	**1.06**	ND<0.0980	**0.427 J**	**1.83**	**2.29**	ND<0.0950	ND<0.106	ND<0.117	ND<0.101	ND<4.10	ND
SB-17-D0.5	04/06/2023	0.5	ND<0.09	ND<0.121	ND<0.114	ND<0.098	**0.242 J**	ND<0.235	ND<1	ND<0.095	ND<0.106	ND<0.117	ND<0.101	ND<4.1	ND
SB-18-D0.5	04/03/2023	0.5	ND<0.0900	ND<0.121	ND<0.114	ND<0.0980	ND<0.0930	ND<0.235	ND<1.00	ND<0.0950	ND<0.106	ND<0.117	ND<0.101	ND<4.10	ND
SB-20-D0.5	04/06/2023	0.5	ND<0.18	ND<0.242	ND<0.228	ND<0.196	ND<0.186	**1.11 DIL, J**	ND<2	ND<0.19	ND<0.212	ND<0.234	ND<0.202	ND<8.2	ND
SB-21-D0.5	04/03/2023	0.5	ND<0.0900	**0.519 J**	**0.353 J**	**0.120 J**	**1.09**	**1.12**	ND<1.00	**0.784 J**	ND<0.106	ND<0.117	ND<0.101	ND<4.10	ND
SB-22-D0.5	04/04/2023	0.5	ND<0.0900	ND<0.121	ND<0.114	ND<0.0980	ND<0.0930	ND<0.235	ND<1.00	ND<0.0950	ND<0.106	ND<0.117	ND<0.101	ND<4.10	ND
SB-23-D0.5	04/03/2023	0.5	ND<0.180	**1.38 J**	**1.50 J**	ND<0.196	ND<0.186	ND<0.470	**2.88 J**	**1.32 J**	ND<0.212	ND<0.234	ND<0.202	ND<8.20	ND
SB-24-D0.5	04/03/2023	0.5	ND<0.0900	ND<0.121	ND<0.114	**0.154 J**	ND<0.0930	ND<0.235	ND<1.00	**2.32**	ND<0.106	ND<0.117	ND<0.101	ND<4.10	ND
SB-25-D0.5	04/03/2023	0.5	ND<0.0900	**0.928 J**	**0.880 J**	ND<0.0980	**0.182 J**	**1.38**	**1.81 J**	**0.203 J**	ND<0.106	ND<0.117	ND<0.101	ND<4.10	ND
SB-26-D0.5	04/03/2023	0.5	ND<0.0900	ND<0.121	ND<0.114	ND<0.0980	**0.565 J**	**0.725 J**	ND<1.00	ND<0.0950	ND<0.106	ND<0.117	ND<0.101	ND<4.10	ND
SB-26-D0.5-Dup	04/03/2023	0.5	ND<0.0900	ND<0.121	ND<0.114	ND<0.0980	**0.640 J**	**0.727 J**	ND<1.00	ND<0.0950	ND<0.106	ND<0.117	ND<0.101	ND<4.10	ND
SB-27-D0.5	04/03/2023	0.5	ND<0.0900	ND<0.121	**0.114 J**	ND<0.0980	**0.211 J**	**1.7**	ND<1.00	ND<0.0950	ND<0.106	ND<0.117	ND<0.101	ND<4.10	ND
SB-28-D0.5	04/06/2023	0.5	ND<0.09	**7.43**	**6.81**	**0.822 J**	**1.26**	**16.4**	**14.2**	**1.07**	**0.938 J**	ND<0.117	**0.838 J**	ND<4.1	ND
SB-29-D0.5	04/03/2023	0.5	ND<0.0900	**0.654 J**	**0.611 J**	**0.971 J**	**1.38**	**0.744 J**	**1.26 J**	**0.622 J**	ND<0.106	ND<0.117	ND<0.101	ND<4.10	ND
SB-30-D0.5	04/06/2023	0.5	ND<0.09	ND<0.121	ND<0.114	ND<0.098	**0.542 J**	ND<0.235	ND<1	ND<0.095	ND<0.106	ND<0.117	ND<0.101	ND<4.1	ND
SB-31-D0.5	04/06/2023	0.5	ND<0.09	ND<0.121	ND<0.114	ND<0.098	ND<0.093	ND<0.235	ND<1	ND<0.095	ND<0.106	ND<0.117	ND<0.101	ND<4.1	ND
SB-32-D0.5	04/06/2023	0.5	**1.1**	**0.481 J**	**1.04**	ND<0.098	**0.938 J**	ND<0.235	**1.52 J**	**82.8**	**0.432 J**	ND<0.117	ND<0.101	ND<4.1	ND
SB-32-D2.0	04/06/2023	2	ND<1.0	ND<0.121	ND<0.114	ND<0.098	ND<0.093	ND<0.235	ND<1.0	**1.67**	ND<0.106	ND<0.117	ND<0.101	ND<4.1	ND
SB-33-D0.5	04/05/2023	0.5	ND<0.09	**0.477 J**	**0.348 J**	ND<0.098	ND<0.093	ND<0.235	ND<1	ND<0.095	ND<0.106	ND<0.117	**0.122 J**	ND<4.1	ND
SB-34-D0.5	04/05/2023	0.5	ND<0.09	**1.08**	**0.974 J**	**0.26 J**	**7.36**	**10.2**	**2.05**	ND<0.095	**0.391 J**	ND<0.117	ND<0.101	ND<4.1	ND
SB-35-D0.5	04/05/2023	0.5	ND<0.18	**0.703 DIL, J**	**0.784 DIL, J**	ND<0.196	**0.654 DIL, J**	**2.43 DIL**	ND<2	**3.08 DIL**	**0.234 DIL, J**	ND<0.234	ND<0.202	ND<8.2	ND
SB-36-D0.5	04/04/2023	0.5	ND<0.0900	**3.75**	**3.49**	**0.354 J**	**0.788 J**	**2.58**	**7.24**	ND<0.0950	ND<0.106	ND<0.117	ND<0.101	ND<4.10	ND
SB-37-D0.5	04/04/2023	0.5	ND<0.0900	**3.84**	**2.87**	**0.283 J**	**1.17**	**1.91**	**6.71**	**0.113 J**	ND<0.106	ND<0.117	ND<0.101	ND<4.10	ND
SB-38-D0.5	04/05/2023	0.5	ND<0.09	ND<0.121	ND<0.114	ND<0.098	**0.874 J**	ND<0.235	ND<1	ND<0.095	ND<0.106	ND<0.117	ND<0.101	ND<4.1	ND
SB-38-D0.5-Dup	04/05/2023	0.5	ND<0.09	ND<0.121	ND<0.114	ND<0.098	**0.317 J**	ND<0.235	ND<1	ND<0.095	ND<0.106	ND<0.117	ND<0.101	ND<4.1	ND
SB-39-D0.5	04/05/2023	0.5	ND<0.18	**0.444 DIL, J**	**0.436 DIL, J**	**0.537 DIL, J**	**9.16 DIL**	**12.3 DIL**	ND<2	**0.256 DIL, J**	ND<0.212	ND<0.234	ND<0.202	ND<8.2	ND
SB-40-D0.5	04/05/2023	0.5	ND<0.18	ND<0.242	ND<0.228	ND<0.196	**1.59 DIL, J**	**3.55 DIL**	ND<2	ND<0.19	ND<0.212	ND<0.234	ND<0.202	ND<8.2	ND
SB-41-D0.5	04/05/2023	0.5	ND<0.09	ND<0.121	ND<0.114	ND<0.098	**0.24 J**	**2.04**	ND<1	ND<0.095	ND<0.106	ND<0.117	ND<0.101	ND<4.1	ND
SB-42-D0.5	04/05/2023	0.5	ND<0.09	ND<0.121	ND<0.114	**0.322 J**	**2.57**	**1.1**	ND<1	ND<0.095	**0.356 J**	ND<0.117	ND<0.101	ND<4.1	ND
SB-43-D0.5	04/05/2023	0.5	ND<0.09	**0.683 J**	**0.618 J**	**0.296 J**	**5.61**	**4.91**	**1.3 J**	**0.949 J**	**0.201 J**	ND<0.117	ND<0.101	ND<4.1	ND
SB-44-D0.5	04/05/2023	0.5	ND<0.09	**0.4 J**	**0.416 J**	**0.261 J**	**6.21**	**3.85**	ND<1	**1.13**	**0.362 J**	ND<0.117	ND<0.101	ND<4.1	ND
SB-45-D0.5	04/05/2023	0.5	ND<0.09	**0.23 J**	**0.213 J**	ND<0.098	**1.14**	**0.721 J**	ND<1	**0.116 J**	**0.189 J**	ND<0.117	ND<0.101	ND<4.1	ND

TABLE 4
ANALYTICAL RESULTS FOR ORGANOCHLORINE PESTICIDES IN SOIL
LAUSD - CANOGA PARK SENIOR HIGH SCHOOL

		Sample depth	Aldrin	alpha-Chlordane	gamma-Chlordane	4,4'-DDD	4,4'-DDE	4,4'-DDT	Chlordane (Total)	Dieldrin	Endrin	Endrin aldehyde	Heptachlor epoxide	Toxaphene	All other OCPs
Units		**ft bgs**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**
Screening Levels[1]		**--**	**39**	**1700**	**1700**	**1900**	**2000**	**1900**	**1700**	**34**	**19000**	**NA**	**70**	**450**	**NA**
SB-46-D0.5	04/05/2023	0.5	ND<0.09	ND<0.121	ND<0.114	ND<0.098	ND<0.093	ND<0.235	ND<1	ND<0.095	ND<0.106	ND<0.117	ND<0.101	ND<4.1	ND
SB-47-D0.5	04/05/2023	0.5	ND<0.18	**1.21 DIL, J**	**1.43 DIL, J**	**2.71 DIL**	**33 DIL**	**27.8 DIL**	**2.64 DIL, J**	**3.6 DIL**	**1.21 DIL, J**	ND<0.234	**0.268 DIL, J**	ND<8.2	ND
SB-48-D0.5	04/06/2023	0.5	ND<0.09	ND<0.121	ND<0.114	**0.126 J**	**0.545 J**	**1.02**	ND<1	ND<0.095	**0.249 J**	ND<0.117	ND<0.101	ND<4.1	ND
SB-49-D0.5	04/06/2023	0.5	ND<0.18	**0.718 DIL, J**	**0.944 DIL, J**	**4.3 DIL**	**92.3 DIL**	**63.3 DIL**	ND<2	**0.373 DIL, J**	**2.52 DIL**	**0.698 DIL, J**	ND<0.202	ND<8.2	ND
SB-50-D0.5	04/04/2023	0.5	ND<0.0900	**0.459 J**	**0.254 J**	**2.55**	**15.4**	**13.4**	ND<1.00	**0.763 J**	**0.730 J**	ND<0.117	ND<0.101	ND<4.10	ND
SB-51-D0.5	04/04/2023	0.5	ND<0.0900	ND<0.121	ND<0.114	**0.239 J**	**4.23**	**1.23**	ND<1.00	**0.131 J**	**0.162 J**	ND<0.117	ND<0.101	ND<4.10	ND
SB-52-D0.5	04/04/2023	0.5	ND<0.0900	ND<0.121	ND<0.114	ND<0.0980	ND<0.0930	ND<0.235	ND<1.00	ND<0.0950	ND<0.106	ND<0.117	ND<0.101	ND<4.10	ND
SB-53-D0.5	04/04/2023	0.5	ND<0.0900	**0.699 J**	**0.701 J**	**0.498 J**	**4.36**	**5.88**	**1.40 J**	**0.629 J**	ND<0.106	ND<0.117	ND<0.101	ND<4.10	ND
SB-53-D0.5-DUP	04/04/2023	0.5	ND<0.180	**0.927**	**0.844**	**1.8**	**7.38**	**9.88**	ND<2.00	**1.34**	ND<0.212	ND<0.234	ND<0.202	ND<8.20	ND
SB-54-D0.5	04/03/2023	0.5	ND<0.0900	ND<0.121	ND<0.114	ND<0.0980	ND<0.0930	ND<0.235	ND<1.00	ND<0.0950	ND<0.106	ND<0.117	ND<0.101	ND<4.10	ND
SB-55-D0.5	04/05/2023	0.5	ND<0.09	**3.7**	**2.34**	**0.332 J**	**6.59**	**5.67**	**6.04**	ND<0.095	ND<0.106	ND<0.117	**0.208 J**	ND<4.1	ND

1 - Residential screening levels were taken from the following source:
DTSC. 2022a. DTSC-modified Screening Levels. HHRA Note 3. May.
µg/kg - micrograms per kilogram
NA = not applicable
ND = Analyte is not detected below the Mehod Detection Limit
ft bgs - feet below ground surface
J = Analyte was detected. However, the analyte concentration is an estimated value, which is between the Method Detection Limit and the Reporting Limit.
Yellow highlighted cell = concentration exceeds respective screening level

TABLE 5
ANALYTICAL RESULTS FOR POLYCHLORINATED BIPHENYLS IN SOIL
LAUSD - CANOGA PARK SENIOR HIGH SCHOOL

		Sample Depth	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Aroclor-1262[2]	Aroclor-1268[2]
Units		ft bgs	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
Screening Levels[1]		--	4000	200	170	230	230	240	240	NA	NA
Sample ID	Date	--									
SB-4-D0.5	04/04/2023	0.5	ND<11.6	ND<8.11	ND<15.2	ND<5.25	ND<11.0	ND<11.9	ND<6.02	ND<20.0	ND<20.0
SB-6-D0.5	04/05/2023	0.5	ND<11.6	ND<8.11	ND<15.2	ND<5.25	ND<11	ND<11.9	ND<6.02	ND<20	ND<20
SB-11-D0.5	04/05/2023	0.5	ND<11.6	ND<8.11	ND<15.2	ND<5.25	ND<11	ND<11.9	ND<6.02	ND<20	ND<20
SB-20-D0.5	04/06/2023	0.5	ND<23.2	ND<16.2	ND<30.4	ND<10.5	ND<22	ND<23.8	ND<12	ND<40	ND<40
SB-22-D0.5	04/04/2023	0.5	ND<11.6	ND<8.11	ND<15.2	ND<5.25	ND<11.0	**293**	ND<6.02	ND<20.0	ND<20.0
SB-22-D2.0	04/04/2023	2.0	ND<11.6	ND<8.11	ND<15.2	ND<5.25	ND<11.0	ND<11.9	ND<6.02	ND<20.0	ND<20.0
SB-23-D0.5	04/03/2023	0.5	ND<11.6	ND<8.11	ND<15.2	ND<5.25	ND<11.0	ND<11.9	ND<6.02	ND<20.0	ND<20.0
SB-24-D0.5	04/03/2023	0.5	ND<11.6	ND<8.11	ND<15.2	ND<5.25	ND<11.0	ND<11.9	ND<6.02	ND<20.0	ND<20.0
SB-26-D0.5	04/03/2023	0.5	ND<11.6	ND<8.11	ND<15.2	ND<5.25	ND<11.0	ND<11.9	ND<6.02	ND<20.0	ND<20.0
SB-26-D0.5-Dup	04/03/2023	0.5	ND<11.6	ND<8.11	ND<15.2	ND<5.25	ND<11.0	ND<11.9	ND<6.02	ND<20.0	ND<20.0
SB-31-D0.5	04/06/2023	0.5	ND<11.6	ND<8.11	ND<15.2	ND<5.25	ND<11	ND<11.9	ND<6.02	ND<20	ND<20
SB-33-D0.5	04/05/2023	0.5	ND<11.6	ND<8.11	ND<15.2	ND<5.25	ND<11	ND<11.9	ND<6.02	ND<20	ND<20
SB-34-D0.5	04/05/2023	0.5	ND<11.6	ND<8.11	ND<15.2	ND<5.25	ND<11	ND<11.9	ND<6.02	ND<20	ND<20
SB-35-D0.5	04/05/2023	0.5	ND<23.2	ND<16.2	ND<30.4	ND<10.5	ND<22	ND<23.8	ND<12	ND<40	ND<40
SB-39-D0.5	04/05/2023	0.5	ND<23.2	ND<16.2	ND<30.4	ND<10.5	ND<22	ND<23.8	ND<12	ND<40	ND<40
SB-42-D0.5	04/05/2023	0.5	ND<11.6	ND<8.11	ND<15.2	ND<5.25	ND<11	ND<11.9	ND<6.02	ND<20	ND<20
SB-45-D0.5	04/05/2023	0.5	ND<11.6	ND<8.11	ND<15.2	ND<5.25	ND<11	ND<11.9	ND<6.02	ND<20	ND<20
SB-47-D0.5	04/05/2023	0.5	ND<23.2	ND<16.2	ND<30.4	ND<10.5	ND<22	ND<23.8	ND<12	ND<40	ND<40
SB-51-D0.5	04/04/2023	0.5	ND<11.6	ND<8.11	ND<15.2	ND<5.25	ND<11.0	ND<11.9	ND<6.02	ND<20.0	ND<20.0
SB-52-D0.5	04/04/2023	0.5	ND<11.6	ND<8.11	ND<15.2	ND<5.25	ND<11.0	ND<11.9	ND<6.02	ND<20.0	ND<20.0
SB-53-D0.5	04/04/2023	0.5	ND<11.6	ND<8.11	ND<15.2	ND<5.25	ND<11.0	ND<11.9	ND<6.02	ND<20.0	ND<20.0
SB-53-D0.5-DUP	04/04/2023	0.5	ND<11.6	ND<8.11	ND<15.2	ND<5.25	ND<11.0	ND<11.9	ND<6.02	ND<20.0	ND<20.0

Notes:

Notes:

1 - Residential screening levels were taken from the following source:
DTSC. 2022a. DTSC-modified Screening Levels. HHRA Note 3. May.

2 - screening level for "PCBs (total) used for evaluation purposes

µg/kg - micrograms per kilogram

ND = Analyte is not detected below the Mehod Detection Limit

ft bgs - feet below ground surface

Yellow highlighted concentrations exceeds its screening level

TABLE 6
ANALYTICAL RESULTS FOR POLYCYCLIC AROMATIC HYDROCARBONS IN SOIL
LAUSD - CANOGA PARK SENIOR HIGH SCHOOL

Sample ID	Sample Collection Date	Sample Depth	Pyrene	All other PAHs
	Units	ft bgs	mg/kg	µg/kg
	Screening Levels[1]	--	1800	NA
Sample ID	Date	--		
SB-4-D0.5	04/04/2023	0.5	ND<0.00981	ND
SB-6-D0.5	04/05/2023	0.5	ND<0.00981	ND
SB-11-D0.5	04/05/2023	0.5	ND<0.00976	ND
SB-20-D0.5	04/06/2023	0.5	ND<0.00972	ND
SB-22-D0.5	04/04/2023	0.5	**0.0188 J**	ND
SB-26-D0.5	04/03/2023	0.5	ND<0.00977	ND
SB-26-D0.5-Dup	04/03/2023	0.5	ND<0.00981	ND
SB-31-D0.5	04/06/2023	0.5	ND<0.0488	ND
SB-33-D0.5	04/05/2023	0.5	ND<0.00974	ND
SB-39-D0.5	04/05/2023	0.5	ND<0.193	ND
SB-42-D0.5	04/05/2023	0.5	ND<0.00976	ND
SB-45-D0.5	04/05/2023	0.5	ND<0.00977	ND
SB-47-D0.5	04/05/2023	0.5	ND<0.0098	ND
SB-51-D0.5	04/04/2023	0.5	ND<0.0490	ND
SB-52-D0.5	04/04/2023	0.5	ND<0.00978	ND
SB-53-D0.5	04/04/2023	0.5	ND<0.0487	ND
SB-53-D0.5-DUP	04/04/2023	0.5	ND<0.0488	ND

Notes:
1 - Residential screening levels were taken from the following source:
DTSC. 2022a. DTSC-modified Screening Levels. HHRA Note 3. May.
mg/kg - miligrams per kilogram
NA = not applicable
ND = Analyte is not detected below the Mehod Detection Limit
ft bgs - feet below ground surface
J = estimated value between the Method Detection Limit (MDL) and the Reporting Limit (RL)

TABLE 7
ANALYTICAL RESULTS FOR TOTAL PETROLEUM HYDROCARBONS IN SOIL
LAUSD - CANOGA PARK SENIOR HIGH SCHOOL

		Sample Depth	TPH as Diesel (C13-C22)	TPH as Heavy Hydrocarbons (C23-40)	TPH Total as Diesel and Heavy HC (C13-C40)	TPH as Gasoline and Light HC. (C4-C12)
Units		**ft bgs**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**
Screening Levels[1]		**--**	**260**	**12000**	**NA**	**430**
Sample ID	**Date**	**--**	**--**	**--**	**--**	**--**
SB-2-D0.5	0.5	04/04/2023	ND<1.62	ND<1.62	ND<1.62	ND<0.200
SB-3-D0.5	0.5	04/04/2023	ND<1.62	ND<1.62	ND<1.62	ND<0.200
SB-3-D0.5-DUP	0.5	04/04/2023	ND<1.62	ND<1.62	ND<1.62	**0.228**
SB-36-D0.5	0.5	04/04/2023	ND<1.62	ND<1.62	ND<1.62	**0.21**
SB-37-D0.5	0.5	04/04/2023	**27.5**	ND<1.62	**27.5**	ND<0.200

NOTES:
1 - Residential direct contact screening levels were taken from the following source:
SFBRWQCB. 2019. Environmental Screening Levels. July.
mg/kg - miligrams per kilogram
HC = hydrocarbon
Total petroleum hydrocarbons analyzed by United States Environmental Protection Agency Method 8015M
TPH = total petroleum hydrocarbons
NA = not applicable
ND = Analyte is not detected below the Mehod Detection Limit
SFBRWQCB = San Francisco Bay Regional Water Quality Control Board
ft bgs = feet below ground surface

TABLE 8
ANALYTICAL RESULTS FOR VOLATILE ORGANIC COMPOUNDS IN SOIL
LAUSD - CANOGA PARK SENIOR HIGH SCHOOL

		Sample Depth	Acetone	Benzene	Toluene	All Other VOCs
	Units	ft bgs	µg/kg	µg/kg	µg/kg	µg/kg
	Screening Level	--	NA	330	110000	NA
Sample ID	Date	--				
SB-2-D0.5	04/04/2023	0.5	ND<25	**0.587 J**	**2.04**	ND
SB-3-D0.5	04/04/2023	0.5	**151**	ND<0.510	**2.73**	ND
SB-3-D0.5-DUP	04/04/2023	0.5	**132**	**0.692 J**	**2.5**	ND
SB-36-D0.5	04/04/2023	0.5	ND<25	**0.933 J**	**2.2**	ND
SB-37-D0.5	04/04/2023	0.5	ND<25	**0.510 J**	**2.26**	ND

Notes:

1 - Residential screening levels were taken from the following source:
DTSC. 2022a. DTSC-modified Screening Levels. HHRA Note 3. May.
USEPA. 2023. Regional Screening Level (RSL) Summary Table (TR=1E-06, HQ=1). May.

µg/kg - micrograms per kilogram
Volatile organic compounds analyzed by United States Environmental Protection Agency Method 8260B
NA = not applicable
ND = Not detected at or above the indicated practical quantitation limit
J = Analyte was detected. However, the analyte concentration is an estimated value, which is between the Method Detection Limit and the Reporting Limit.
ft bgs = feet below ground surface

TABLE 9
ANALYTICAL RESULTS FOR ASBESTOS CONTAINING MATERIAL IN SOIL
LAUSD - CANOGA PARK SENIOR HIGH SCHOOL

Sample ID	Sample Collection Date	Depth (ft bgs)	Asbestos Type (%)
SB-4-D0.5	4/4/2023	0.5	0
SB-6-D0.5	4/5/2023	0.5	0
SB-11-D0.5	4/5/2023	0.5	0
SB-20-D0.5	4/6/2023	0.5	0
SB-22-D0.5	4/4/2023	0.5	0
SB-26-D0.5	4/3/2023	0.5	0
SB-26-D0.5-Dup	4/3/2023	0.5	0
SB-31-D0.5	4/6/2023	0.5	0
SB-33-D0.5	4/5/2023	0.5	0
SB-39-D0.5	4/5/2023	0.5	0
SB-42-D0.5	4/5/2023	0.5	0
SB-45-D0.5	4/5/2023	0.5	0
SB-47-D0.5	4/5/2023	0.5	0
SB-51-D0.5	4/4/2023	0.5	0
SB-52-D0.5	4/4/2023	0.5	0
SB-53-D0.5	4/4/2023	0.5	0
SB-53-D0.5-Dup	4/4/2023	0.5	0

Notes: No asbestos was detected and no points were counted
Analysis Method EPA 600/r-93-116 & EPA 600/M4-82-020
NA = Not applicable
ft bgs = feet below ground surface

TABLE 10
ESTIMATED VOLUMES OF IMPACTED SOIL
LAUSD - CANOGA PARK SENIOR HIGH SCHOOL

Soil Impact Area	COC	Dimensions (feet)	Area (square feet)	Depth of Excavation Cell	Total Thickness (ft)	Impacted Soil Volume (Cubic Yards)	Waste Type
SB-1	Arsenic	ND	ND	0 to 2-ft bgs	2.0	5.1	Non-hazardous
		ND	ND	0 to 3-ft bgs	3.0	10.1	Non-hazardous
		ND	ND	2 to 3-ft bgs	1.0	3.8	Non-hazardous
	Lead	ND	ND	0 to 2 ft bgs	2.0	7.5	Non-RCRA hazardous
SB-3	Lead	ND	ND	0 to 2 ft bgs	2.0	13.6	Non-RCRA hazardous
SB-5	Arsenic	22.2 x 4.5	99.9	0 to 2 ft bgs	2.0	7.4	Non-hazardous
		16.3 x 5.7	92.91	0 to 2 ft bgs	2.0	6.9	Non-hazardous
		6.8 x 5.7	38.76	0 to 2 ft bgs	2.0	2.9	Non-RCRA hazardous
SB-7	Arsenic	27.4 x 10.1	276.74	0 to 2 ft bgs	2.0	20	Non-hazardous
		13.9 x 9.6	133.34	0 to 2 ft bgs	2.0	9.9	Non-hazardous
		27.4 x 3.8	104.12	0 to 2 ft bgs	2.0	7.7	Non-RCRA hazardous
SB-20	Arsenic	11.2 x 8.4	94.08	0 to 3 ft bgs	3.0	10	Non-hazardous
SB-26	Arsenic	ND	ND	0 to 2 ft bgs	2.0	24	Non-hazardous
		16.1 x 9.3	149.73	0 to 2 ft bgs	2.0	11	Non-hazardous
		16.1 x 7.2	115.92	2 to 3 ft bgs	1.0	4.3	Non-hazardous
		16.1 x 7.2	115.92	0 to 2 ft bgs	2.0	8.6	Non-RCRA hazardous
		11.9 x 6	71.4	0 to 2 ft bgs	2.0	5.3	Non-RCRA hazardous
		16.1 x 5.4	86.94	0 to 2 ft bgs	2.0	6.4	Non-RCRA hazardous
SB-28	Lead	25 x 3.1	77.5	0 to 2 ft bgs	2.0	5.7	Non-RCRA hazardous
SB-34	Arsenic	10.8 x 5.9	63.72	0 to 2 ft bgs	2.0	4.7	Non-RCRA hazardous
		9.6 x 5.9	56.64	0 to 2 ft bgs	2.0	4.2	Non-RCRA hazardous
		9.6 x 5.9	56.64	2 to 3 ft bgs	1.0	2.1	Non-hazardous
SB-38	Arsenic	ND	ND	0 to 2 ft bgs	2.0	2.9	Non-hazardous
		ND	ND	2 to 3 ft bgs	1.0	7.6	Non-hazardous
		ND	ND	0 to 2 ft bgs	2.0	15	Non-RCRA hazardous
SB-39	Lead	13.2 x 6.4	84.48	0 to 2 ft bgs	2.0	6.3	Non-RCRA hazardous
SB-44	Arsenic	18.4 x 7.1	130.64	0 to 2 ft bgs	2.0	9.7	Non-hazardous
		30.8 x 7.1	218.68	0 to 3 ft bgs	3.0	24	Non-hazardous
SB-51	Arsenic	23.7 x 8.6	189.6	0 to 2 ft bgs	2.0	14	Non-hazardous
		23.7 x 4.3	101.91	0 to 2 ft bgs	3.0	11	Non-RCRA hazardous
					Non-Hazardous in place soil volume	174	
					Non-RCRA Hazardous in place soil volume	99	
					Total Impacted in place soil volume	273	

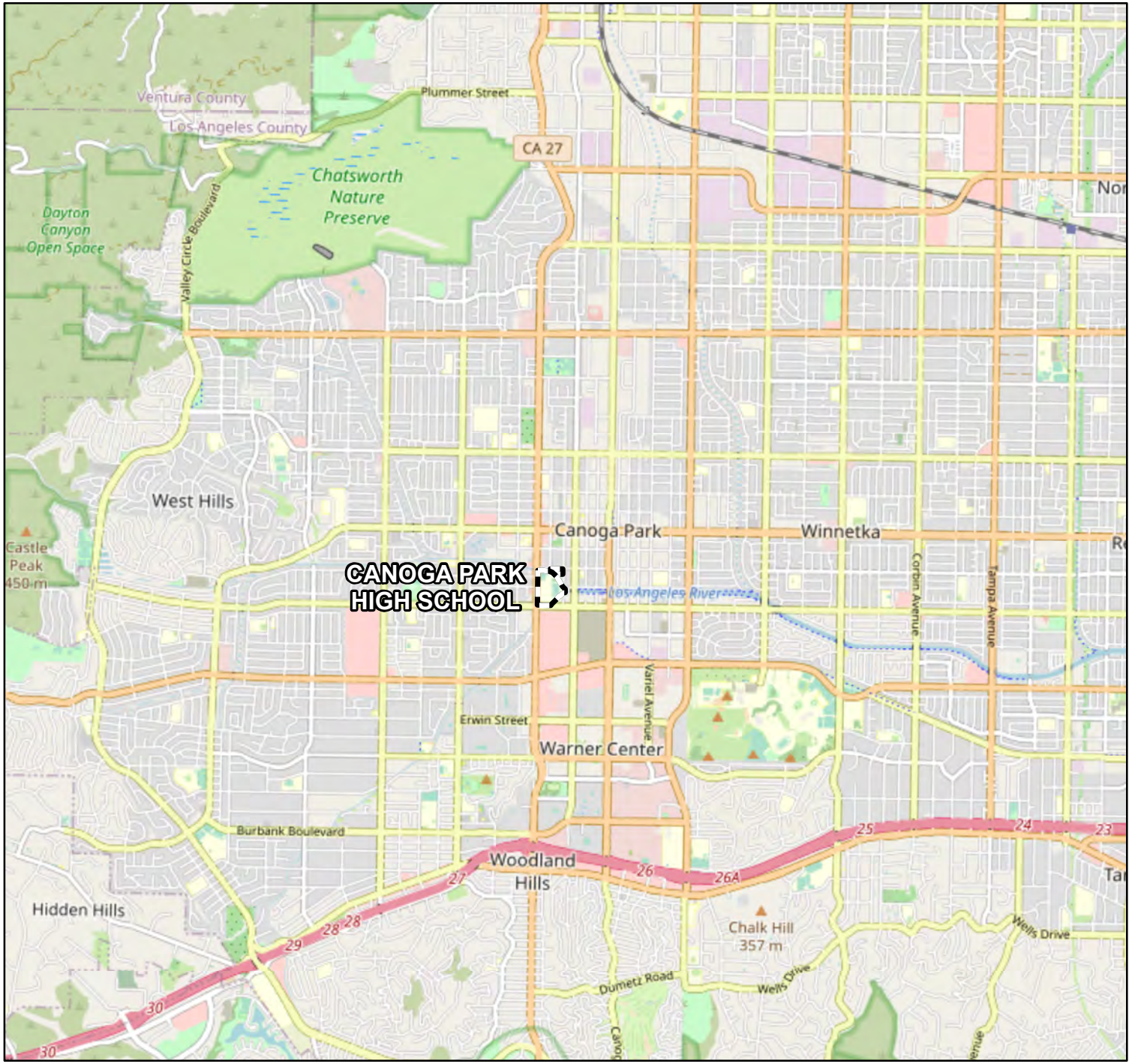
ND = no dimmensions due to irregular-shaped excavation (cubic yards calculated in AutoCAD)
ft bgs = feet below ground surface
COC = Chemical of concern
RCRA = Resource Conservation and Recovery Act

FIGURES

FIGURE 1

CANOGA PARK HIGH SCHOOL SITE MAP

Canoga Park High School
6850 CA-27
Canoga Park, California



Legend

School Property



PARSONS

Coordinate System: Image - Open Street
WGS 1984 UTM Zone 11N

2,500 0 2,500 5,000 Feet

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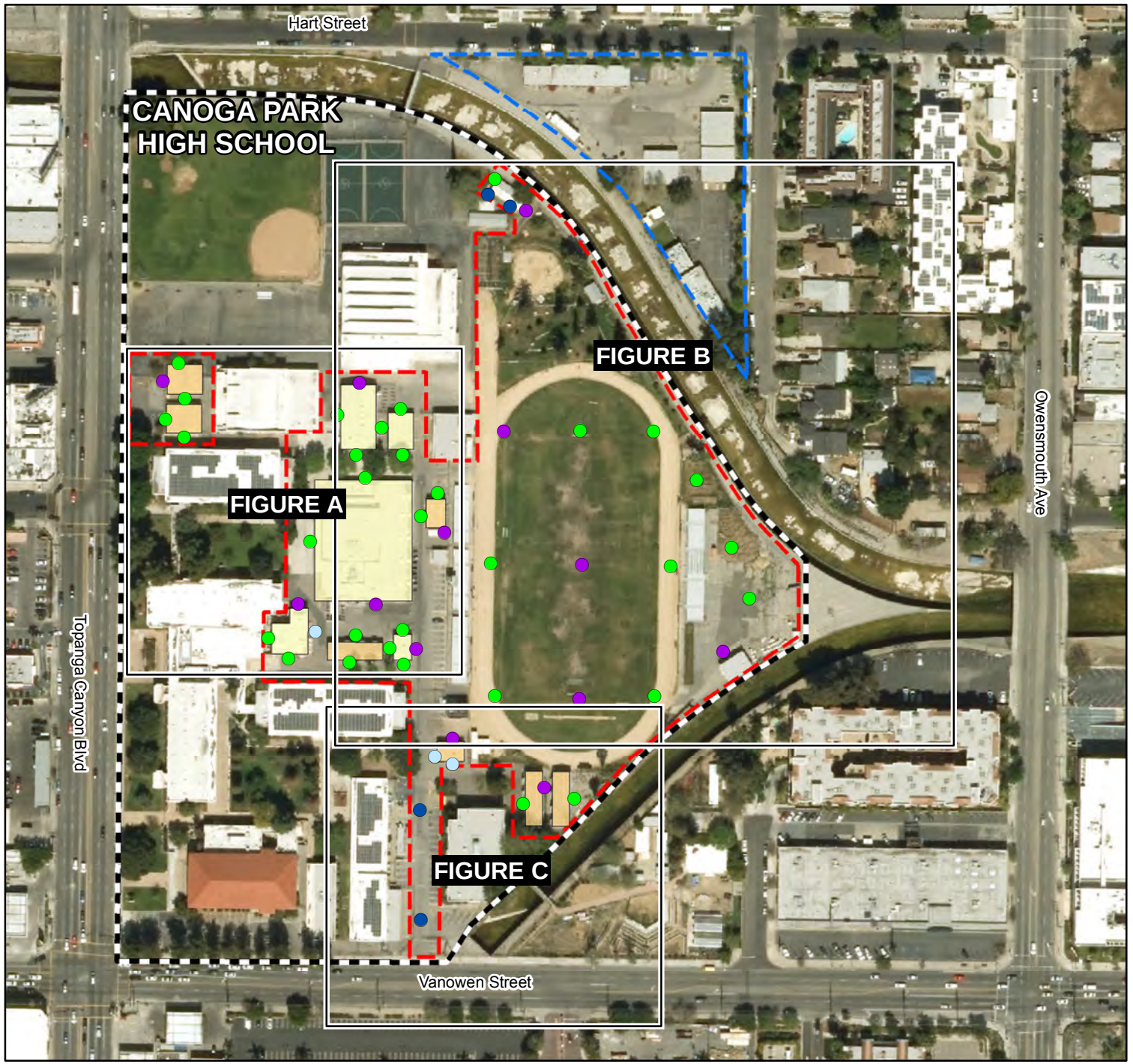

FIGURE 2

CANOGA PARK HIGH SCHOOL SAMPLING PLAN

Canoga Park High School
6850 CA-27
Canoga Park, California

Legend

Soil Boring Locations

- Lead, Arsenic, OCPs
- Lead, Arsenic, OCPs, PCBs
- Lead, Arsenic, OCPs, TPH, VOCs
- 20% of Samples Analyzed for Rule 1466 Compounds

- Buildings to be Removed
- Portables to be Removed
- Owensmouth Continuation High School
- Development
- School Property

Note: Soil boring locations are approximate.

PARSONS

Coordinate System: WGS 1984 UTM Zone 11N
Image - LA County, LARIAC4, 2013

Feet
100 0 100 200

N

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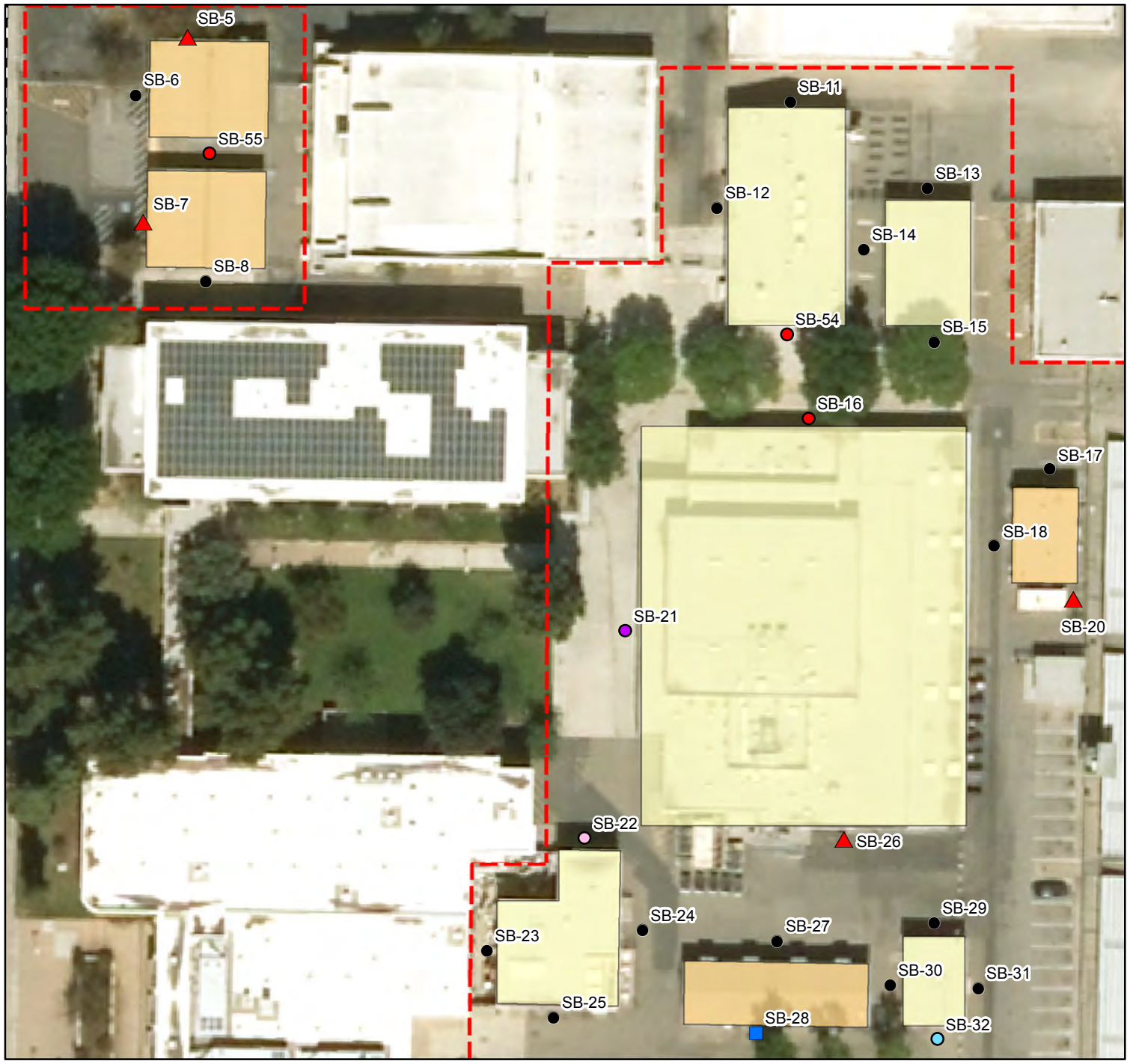

FIGURE 2a

SOIL SAMPLE RESULTS
CENTRAL WESTERN PORTION OF SITE

Canoga Park High School
6850 CA-27
Canoga Park, California

Legend

Sample Results

- No Exceedance
- Individual Arsenic result above PSL but below 30 mg/kg (cleared by site wide UCL)
- Individual CrVI result above PSL (cleared by site wide UCL)
- Individual CrVi and PCB result above PSL (cleared by site wide UCL)
- Individual OCP result above PSL (cleared by UCL)
- Arsenic above 30 mg/kg
- Lead STLC above 5.0 mg/L
- Buildings to be Removed
- Portables to be Removed
- Development
- School Property

Note:
1. Soil boring locations are approximate.
2. Refer to Figures 3a-3g for step-out boring locations.

PARSONS

Coordinate System: WGS 1984 UTM Zone 11N
Image - LA County, LARIAC4, 2013

30 0 30 60 Feet

N

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FIGURE 2b

SOIL SAMPLE RESULTS
CENTRAL EASTERN PORTION OF SITE

Canoga Park High School
6850 CA-27
Canoga Park, California

Legend

Sample Results

- No Exceedance
- Individual Arsenic result above PSL but below 30 mg/kg (cleared by site wide UCL)
- Arsenic above 30 mg/kg
- Lead STLC above 5.0 mg/L & Arsenic above 30 mg/kg
- Lead STLC above 5.0 mg/L & individual Arsenic result above PSL but below 30 mg/kg (Arsenic cleared by site wide UCL)
- Buildings to be Removed
- Portables to be Removed
- Owensmouth Continuation High School
- Development
- School Property

Note:
1. Soil boring locations are approximate.
2. Refer to Figures 3a-3g for step-out boring locations.

PARSONS

Coordinate System: WGS 1984 UTM Zone 11N
Image - LA County, LARIAC4, 2013

55 0 55 110 Feet

N

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FIGURE 2c

SOIL SAMPLE RESULTS SOUTHERN PORTION OF SITE

Canoga Park High School
6850 CA-27
Canoga Park, California

Legend

Sample Results

- No Exceedance
- Arsenic above 30 mg/kg
- Lead STLC above 5.0 mg/L & individual Arsenic result above PSL but below 30 mg/kg (Arsenic cleared by site wide UCL)
- Individual lead result above PSL & arsenic result above PSL but below 30 mg/kg (both cleared by site wide UCL)
- Portables to be Removed
- Development
- School Property

Note:
1. Soil boring locations are approximate.
2. Refer to Figures 3a-3g for step-out boring locations.

PARSONS

Coordinate System: WGS 1984 UTM Zone 11N
Image - LA County, LARIAC4, 2013

30 0 30 60 Feet

N

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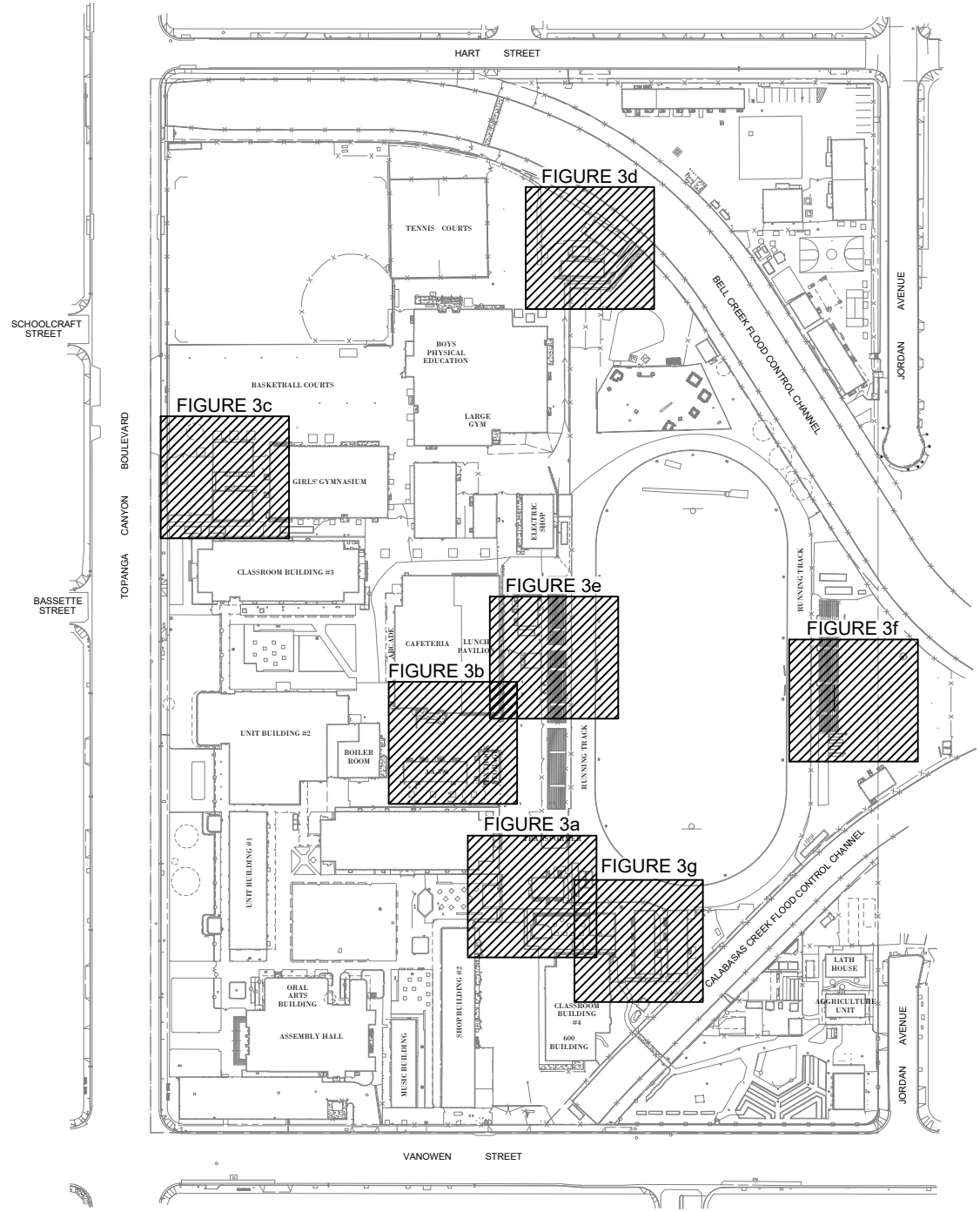


FIGURE 3

KEY MAP SHOWING STEP-OUT SAMPLING AREAS

Canoga Park High School
6850 CA-27
Canoga Park, California

PARSONS

0 100 200 Feet

N

453413-LAUSD_CANOGA_PARK-BORINGS.DWG 3A 8/14/23

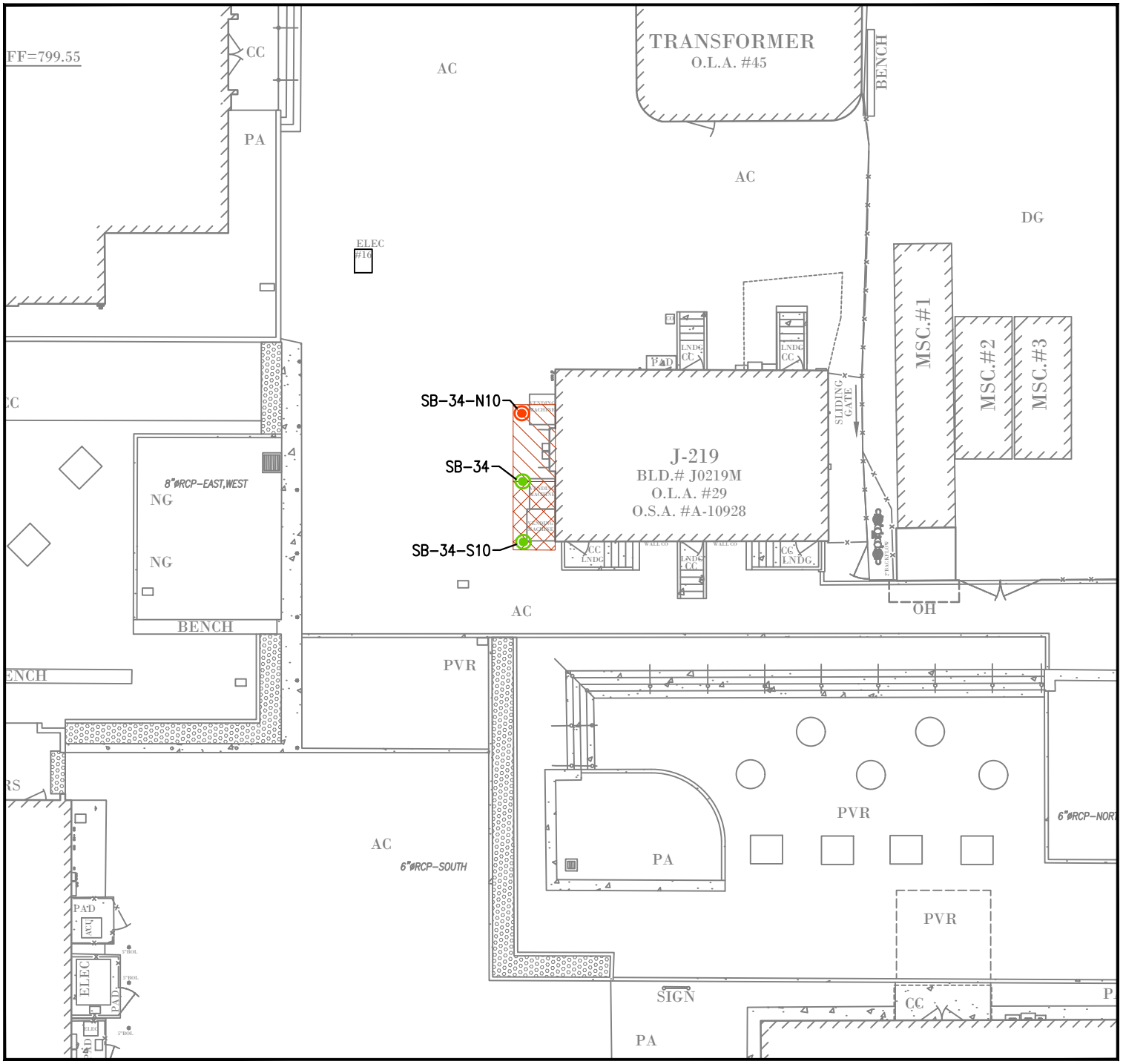


FIGURE 3a

SAMPLE LOCATIONS AND IMPACTED AREA BOUNDARY SB-34

6850 CA-27

Legend

- Building Outline
- Soil Sample - Exceedance (Arsenic > 12 mg/kg)
- Soil Sample - Exceedance (Arsenic STLC > 5.0 mg/L)
- 2.0-Foot Depth Excavation Area (Non-RCRA Hazardous Soil)
- 3.0-Foot Depth Excavation Area (Non-RCRA Hazardous Soil 0-2' bgs, Non-Hazardous Soil 2'-3' bgs)

PARSONS

0 10 20 Feet

N

453413-LAUSD_CANOGA_PARK-BORINGS.DWG 3B 8/14/23

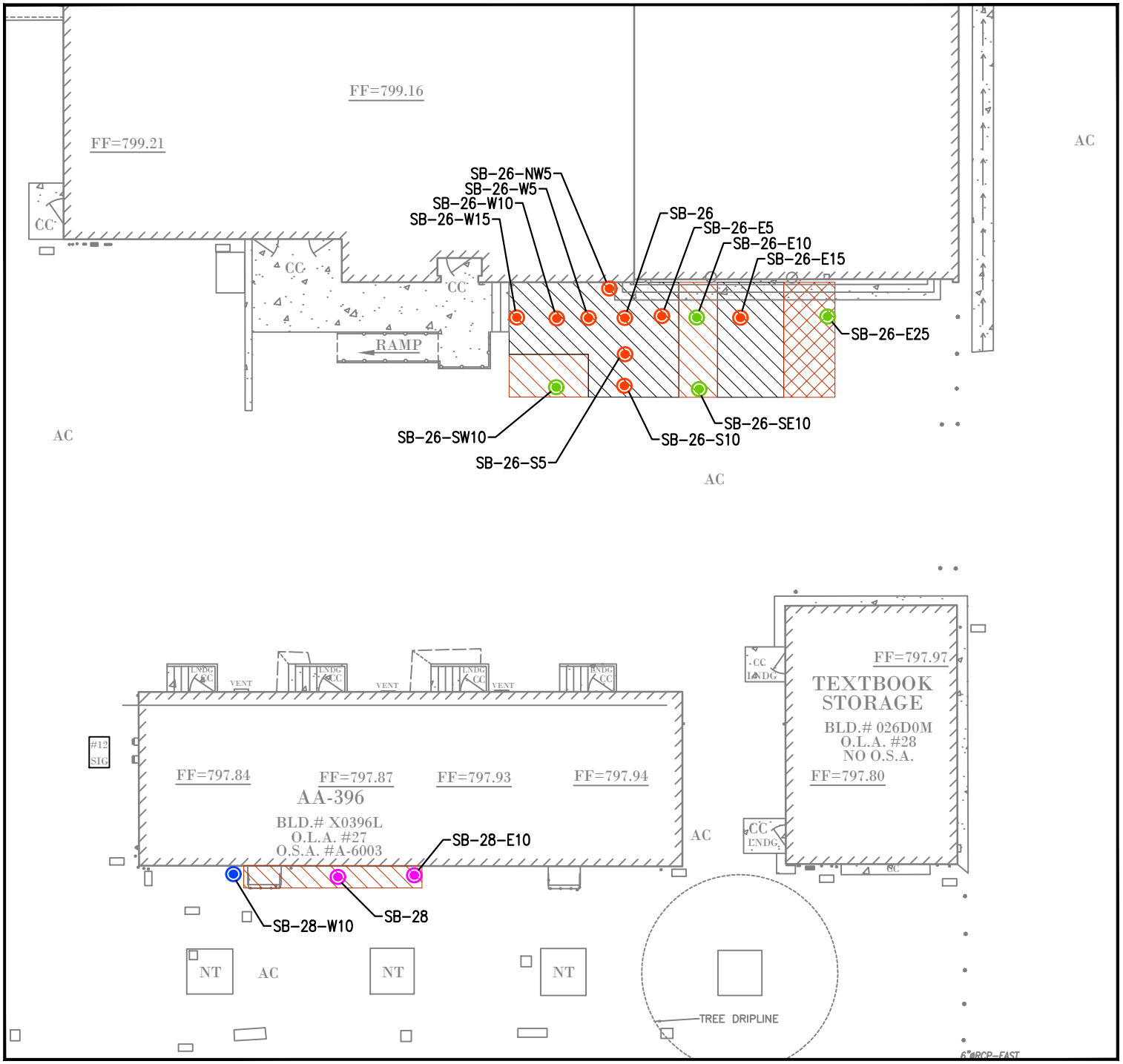


FIGURE 3b

SAMPLE LOCATIONS AND IMPACTED AREA BOUNDARY SB-26 AND SB-28

6850 CA-27

Legend

- Building Outline
- Soil Sample - No Exceedance
- Soil Sample - Exceedance (Arsenic > 12 mg/kg)
- Soil Sample - Exceedance (Lead STLC > 5.0 mg/L)
- Soil Sample - Exceedance (Arsenic STLC > 5.0 mg/L)
- 2.0-Foot Depth Excavation Area (Non-Hazardous Soil)
- 2.0-Foot Depth Excavation Area (Non-RCRA Hazardous Soil)
- 3.0-Foot Depth Excavation Area (Non-RCRA Hazardous Soil 0-2' bgs, Non-Hazardous Soil 2'-3' bgs)

PARSONS

0 10 20 Feet

N

453413-LAUSD_CANOGA_PARK-BORINGS.DWG 3C 8/14/23

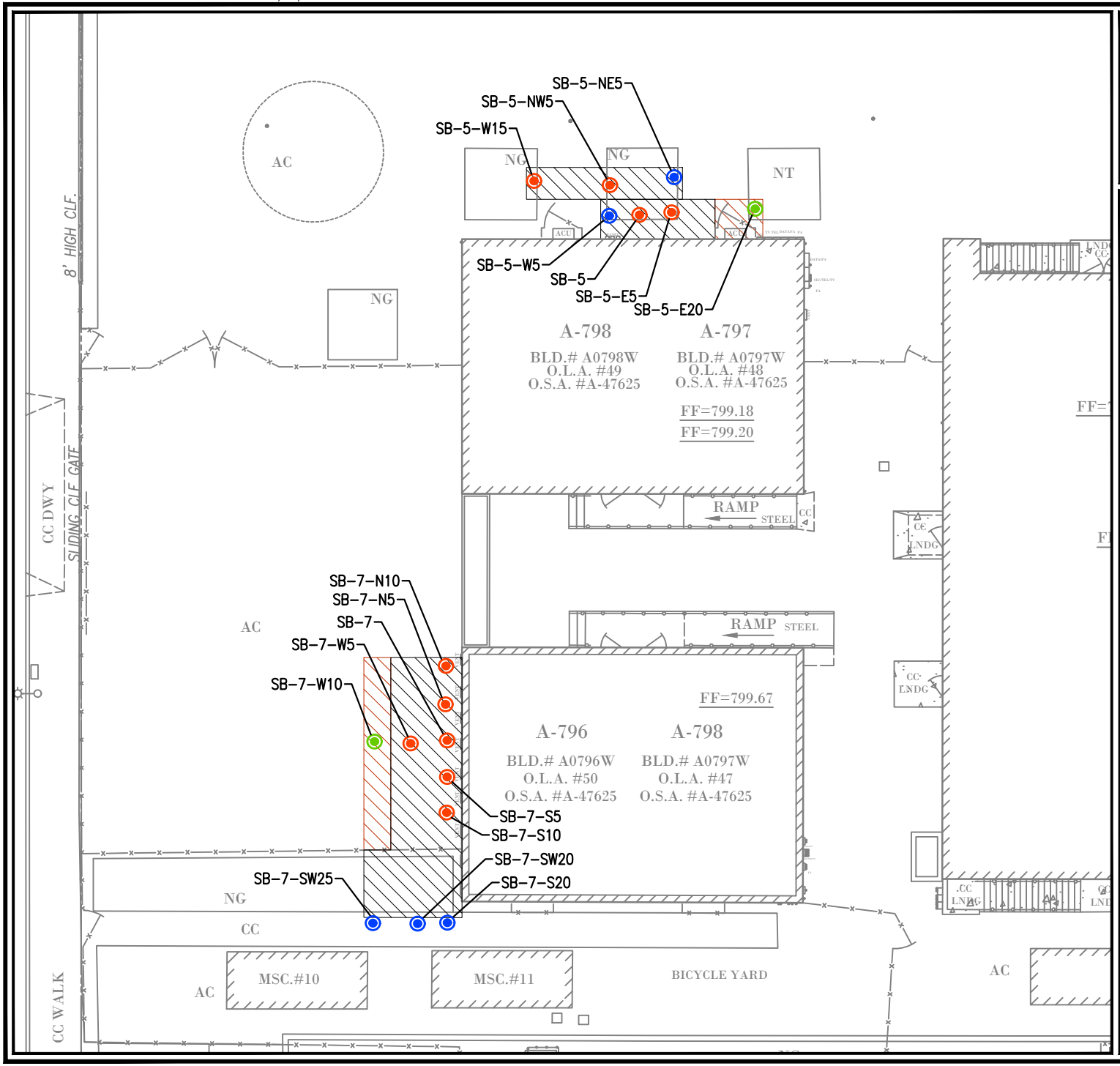


FIGURE 3c

SAMPLE LOCATIONS AND IMPACTED AREA BOUNDARY SB-5 AND SB-7

6850 CA-27

Legend

- Building Outline
- Soil Sample - No Exceedance
- Soil Sample - Exceedance (Arsenic > 12 mg/kg)
- Soil Sample - Exceedance (Arsenic STLC > 5.0 mg/L)
- 2.0-Foot Depth Excavation Area (Non-Hazardous Soil)
- 2.0-Foot Depth Excavation Area (Non-RCRA Hazardous Soil)

PARSONS

0 10 20 Feet

N

453413-LAUSD_CANOGA_PARK-BORINGS.DWG 3D 8/14/23

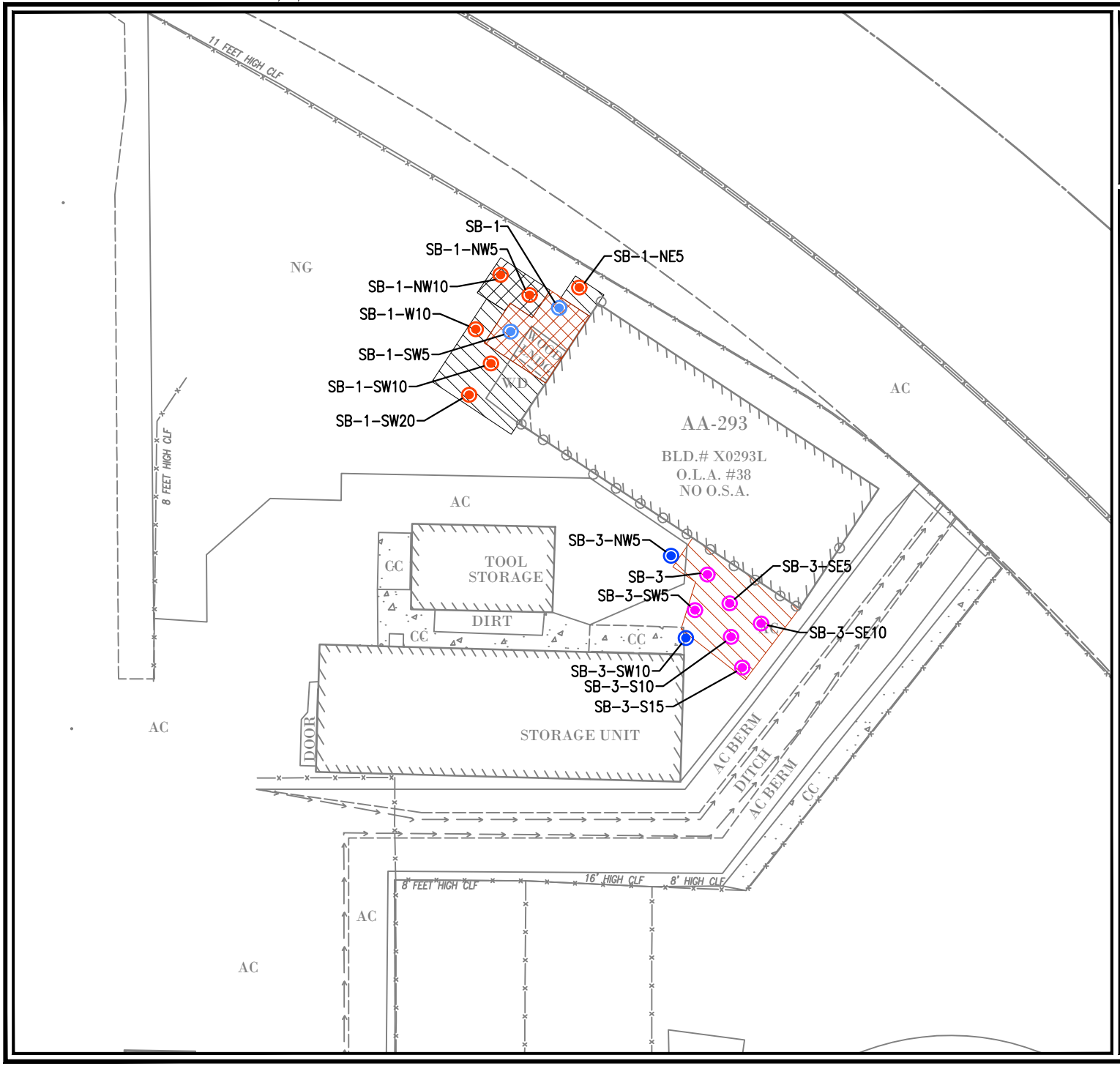


FIGURE 3d

SAMPLE LOCATIONS AND IMPACTED AREA BOUNDARY SB-1 AND SB-3

6850 CA-27

Legend

- Building Outline
- Soil Sample - No Exceedance
- Soil Sample - Exceedance (Arsenic > 12 mg/kg)
- Soil Sample - Exceedance (Lead STLC > 5.0 mg/L)
- Soil Sample - Exceedance (Arsenic > 12 mg/kg) (Lead STLC > 5.0 mg/L)
- 2.0-Foot Depth Excavation Area (Non-Hazardous Soil)
- 2.0-Foot Depth Excavation Area (Non-RCRA Hazardous Soil)
- 3.0-Foot Depth Excavation Area (Non-Hazardous Soil)
- 3.0-Foot Depth Excavation Area (Non-RCRA Hazardous Soil 0-2' bgs, Non-Hazardous Soil 2'-3' bgs)

PARSONS

0 10 20 Feet

N

453413-LAUSD_CANOGA_PARK-BORINGS.DWG 3E 7/27/23

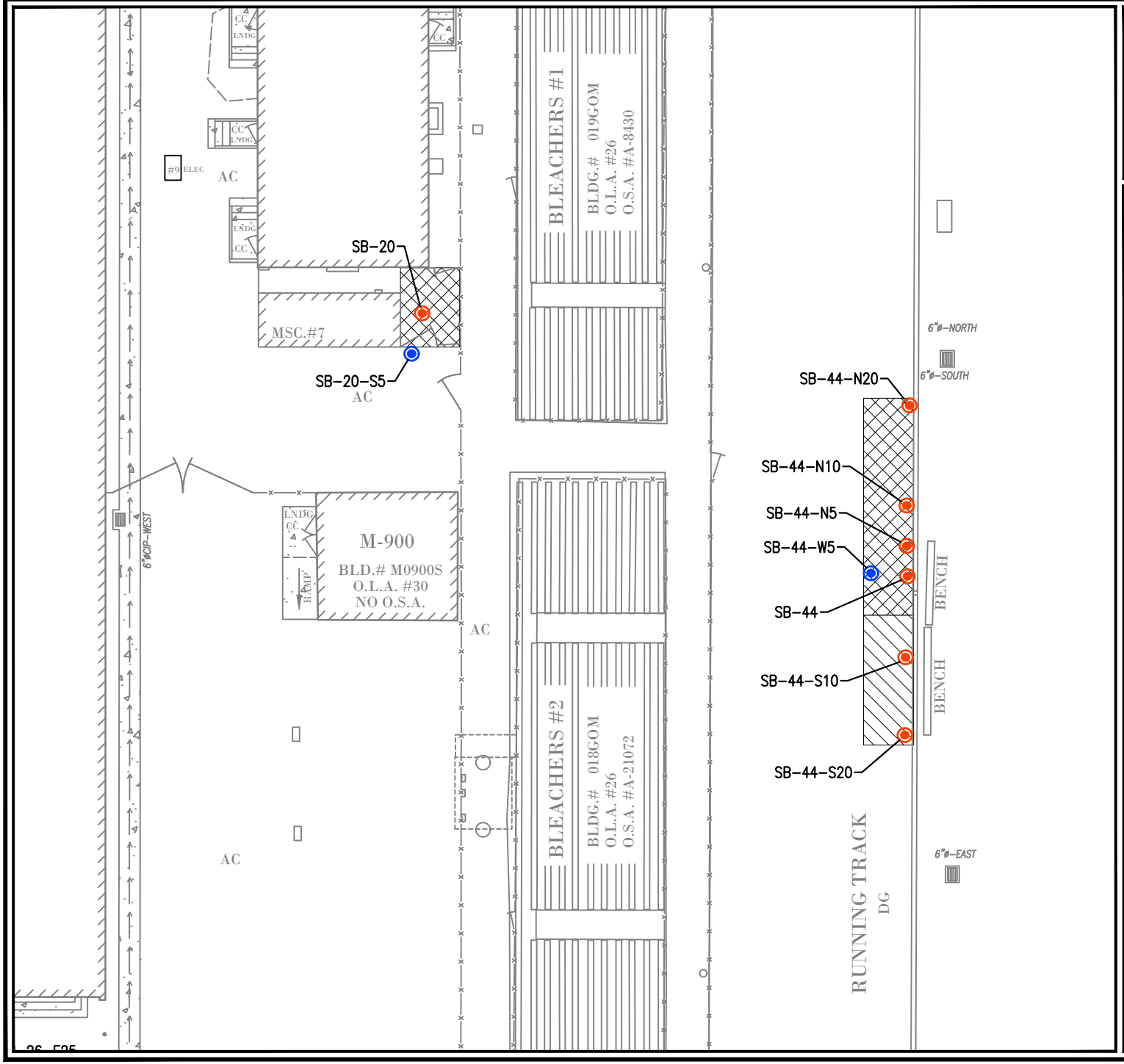


FIGURE 3e

SAMPLE LOCATIONS AND IMPACTED AREA BOUNDARY SB-20 AND SB-44

6850 CA-27

Legend

- Building Outline
- Soil Sample - No Exceedance
- Soil Sample - Exceedance (Arsenic > 12 mg/kg)
- 2.0-Foot Depth Excavation Area (Non-Hazardous Soil)
- 3.0-Foot Depth Excavation Area (Non-Hazardous Soil)

PARSONS

0 10 20 Feet

N

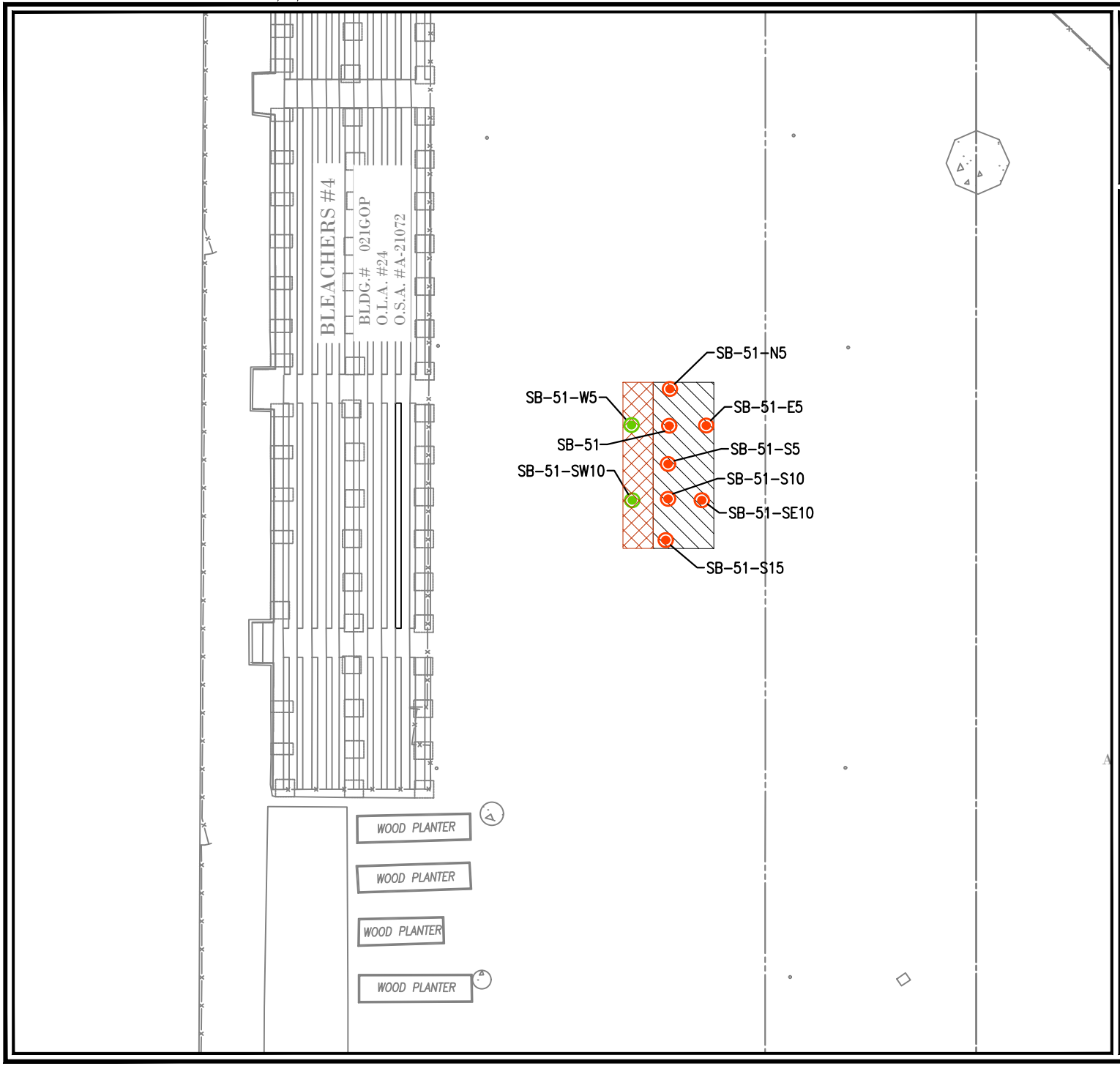


FIGURE 3f

SAMPLE LOCATIONS AND IMPACTED AREA BOUNDARY SB-51

6850 CA-27

Legend

- Building Outline
- Soil Sample - Exceedance (Arsenic > 12 mg/kg)
- Soil Sample - Exceedance (Arsenic STLC > 5.0 mg/L)
- 2.0-Foot Depth Excavation Area (Non-Hazardous Soil)
- 3.0-Foot Depth Excavation Area (Non-RCRA Hazardous Soil)

PARSONS

0 10 20 Feet

N

453413-LAUSD_CANOGA_PARK-BORINGS.DWG 3G 8/14/23

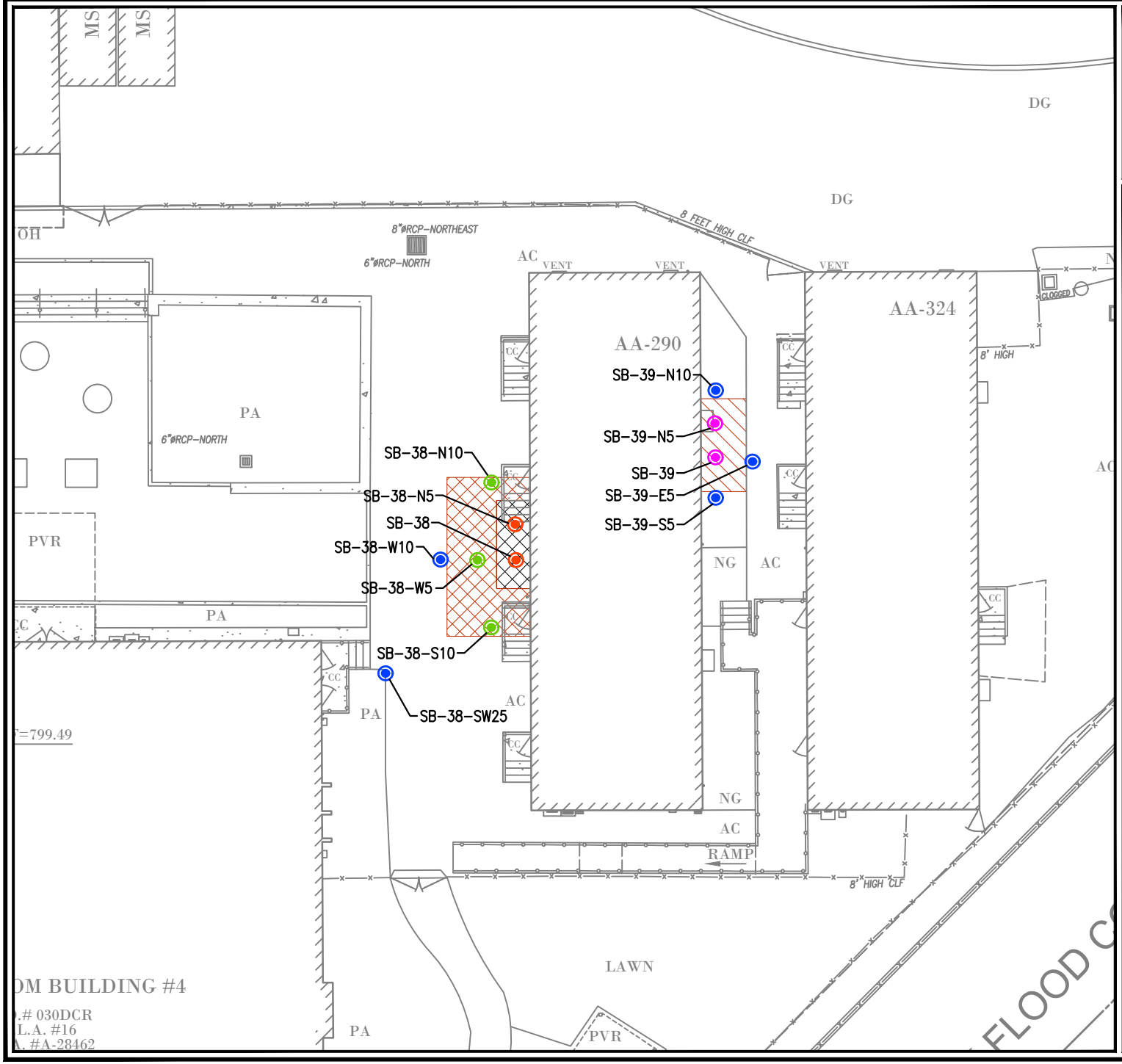


FIGURE 3g

SAMPLE LOCATIONS AND IMPACTED AREA BOUNDARY SB-38 AND SB-39

Canoga Park High School
6850 CA-27
Canoga Park, California

Legend

- Building Outline
- Soil Sample - No Exceedance
- Soil Sample - Exceedance (Arsenic > 12 mg/kg)
- Soil Sample - Exceedance (Lead STLC > 5.0 mg/L)
- Soil Sample - Exceedance (Arsenic STLC > 5.0 mg/L.
- 2.0-Foot Depth Excavation Area (Non-RCRA Hazardous Soil)
- 3.0-Foot Depth Excavation Area (Non-Hazardous Soil)
- 3.0-Foot Depth Excavation Area (Non-RCRA Hazardous Soil 0-2' bgs, Non-Hazardous Soil 2'-3' bgs)

PARSONS

0 10 20 Feet

N

APPENDIX A

PRELIMINARY ENDANGERMENT ASSESSMENT - EQUIVALENT WORKPLAN FOR SOIL SAMPLING

Site: Canoga Park Senior High School
Los Angeles Unified School District
6850 Topanga Canyon Boulevard
Canoga Park (Los Angeles), California 91303

Prepared for

Los Angeles Unified School District
Office of Environmental Health and Safety
333 South Beaudry Avenue, 21st Floor
Los Angeles, California 90017

March 30, 2023

Prepared by

PARSONS 100 WEST WALNUT STREET • PASADENA • CALIFORNIA 91124

PRELIMINARY ENDANGERMENT ASSESSMENT – EQUIVALENT WORKPLAN FOR SOIL SAMPLING
CANOGA PARK SENIOR HIGH SCHOOL
6850 TOPANGA CANYON BOULEVARD
CANOGA PARK (LOS ANGELES), CALIFORNIA 91303

Prepared for

Los Angeles Unified School District
Office of Environmental Health and Safety
333 South Beaudry Avenue, 21st Floor
Los Angeles, California 90017

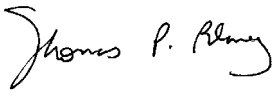
March 30, 2023

Prepared by

PARSONS
100 WEST WALNUT STREET • PASADENA • CALIFORNIA 91124

Prepared by:

Justin King — Date: 3-30-23
Project Manager

Reviewed by: 

Thomas P. Blaney — Date: 3-30-23
Principal Geologist

Reviewed by: 

Pete Shair, P.G. 8362 — Date: 3-30-23
Principal Geologist

TABLE OF CONTENTS

1.0 INTRODUCTION....1
1.1 SITE DESCRIPTION AND BACKGROUND....2
1.2 OBJECTIVES....3
2.0 FIELD ACTIVITIES....4
2.1 UTILITY OWNER NOTIFICATION AND GEOPHYSICAL SURVEY....4
2.2 SOIL SAMPLING AND ANALYSES....4
2.3 EQUIPMENT DECONTAMINATION....5
2.4 SURFACE RESTORATION....6
2.5 INVESTIGATION- DERIVED WASTE (IDW) MANAGEMENT....6
2.6 QUALITY ASSURANCE AND QUALITY CONTROL MEASURES....6
2.7 HEALTH AND SAFETY....6
3.0 REPORTING AND SCHEDULE....8
4.0 REFERENCES....9

TABLE

TABLE 1 SOIL SAMPLING PLAN

FIGURES

FIGURE 1 SITE LOCATION MAP

FIGURE 2 SITE MAP

FIGURES A-C PROPOSED SAMPLING PLANS

1.0 INTRODUCTION

This Preliminary Environmental Assessment Equivalent (PEA-E) Workplan for Soil Sampling (PEA-E Workplan) at selected areas of Los Angeles Unified School District's (LAUSD) Canoga Park Senior High School (Campus) presents the scope of work and technical approach to perform PEA-E activities for the proposed modernization project planned for more than 50% of the campus next year (2024). The "Site" is an existing active school on approximately 21.4 acres and is located at 6850 Topanga Canyon Boulevard in the community of Canoga Park in Los Angeles, California (Figures 1 and 2).

This work has been requested by the LAUSD based on results of a Phase I Environmental Site Assessment (ESA) prepared by Eco & Associates, Inc. (Eco) dated February 18, 2019, for the Campus property. The results of the sampling proposed in this PEA-E Workplan will be submitted to the LAUSD in a PEA-E Report.

The goal of performing the scope of work described in this PEA-E Workplan is to determine if historical or recent activities or materials have adversely impacted the surface soil or shallow soil

(0 to 36 inches below ground surface [bgs]), prior to grading and construction for the proposed new Site development.

The results of the Phase I ESA research indicated there were historical, potential, and other recognized environmental conditions (RECs) found within the Campus footprint. As a result of the RECs, Eco made the following recommendations:

Lead-Based Paint. Prior to disturbing soil at the Site, it is recommended that representative soil samples be collected within the associated area(s) and analyzed for lead. The results of the investigation should be used to determine if the lead concentrations in soil in these areas are a potential threat to human health.

Arsenic. Prior to disturbing any asphalt at the Site, it is recommended that representative soil samples be collected beneath the asphalt within the associated area(s) and analyzed for arsenic. The results of the investigation should be used to determine if the arsenic concentrations in soil in these areas are a potential threat to human health.

OCPs. Prior to their removal, it is recommended that representative soil samples be collected around wooden structures and analyzed for OPCs. The results of the investigation should be used to determine if the OCP concentrations in soil in these areas are a potential threat to human health.

Transformers. If future construction activities encroach into the immediate vicinity of pad-mounted transformers, it is recommended that the adjoining soil be assessed for the possible presence of PCBs prior to disturbing the soil around the transformers. The results of the investigation should be used to determine if there are detectable concentrations of PCBs in this soil and if the detectable PCBs are a potential threat to human health.

Hydrocarbons. Due to the previous use of the southern part of building Shop #2 as an auto shop, the presence of underground lifts, and an associated clarifier, this area was considered a potential REC. However, the extent of a potential leak is expected to be limited in the soils below the building due to the heavy nature of the hydraulic fluid. Assessment of the soils below the building and clarifier for the possible presence of hydrocarbons is recommended if future construction activity is planned that will disturb soil beneath the building.

Radon. Due to the high potential for indoor-radon levels above 4.0 microcuries per liter at the Site and its surroundings, it is recommended that radon mitigation measures be included in any future buildings or additions.

The scope of work presented in this PEA-E Workplan was designed to assess each of the recommendations stated above. The following subsections provide a Site description, objectives, and scope of work for this assessment.

1.1 SITE DESCRIPTION AND BACKGROUND

Canoga Park Senior High School had approximately 1,500 students in the grades 9-12, five (5) administrators, seventy-eight (78) teachers, and thirty-nine (39) support staff in the 2021-2022 school year. The campus initially opened in 1915 as Owensmouth High School and currently

consists of nineteen (19) permanent buildings, sixteen (16) portable buildings, an athletic field, paved driveways and parking areas, and landscaping. The Campus is approximately 21.4 acres within Assessor Parcel Number 2138-001-900.

A Phase I Environmental Site Assessment Report was completed by Eco & Associates, Inc. in 2019. LAUSD is proposing to remove/improve the following within the eastern half of the Site (which are the subject of the Assessment):

- Remove the existing Food Service/Cafeteria MPR/lunch shelter building, 3 classroom buildings, the Maintenance & Operations (M&O) building and 48 relocatable/modular classrooms.
- Construct a Food Services/MPR/M&O area and 57 classrooms in permanent buildings.
- Seismic retrofit of physical education building.
- Complete site-wide infrastructure upgrades.

1.2 OBJECTIVES

The objective of the proposed sampling is to determine if any environmental issues will need to be mitigated either prior to or during the Campus improvement activities described above. A determination will also be made as to whether or not the requirements of South Air Quality Management District Rule 1466 apply to soil handling activities.

Figure 3 depicts the proposed soil sampling locations. Soil samples will be analyzed utilizing an off-site fixed laboratory. A brief description of the proposed soil sampling is provided in Table 1.

2.0 FIELD ACTIVITIES

Field work will be implemented in general accordance with *Drilling, Logging, and Sampling at Contaminated Sites* (DTSC, 2013) and *Interim Guidance Evaluation of School Sites with Potential Soil Contamination as a Result of Lead from Lead-Based Paint, Organochlorine Pesticides from Termiticides, and Polychlorinated Biphenyls from Electrical Transformers* (DTSC, 2006). The initial sampling phase is anticipated to be conducted and completed in early April 2023. Based on the initial sample phase results, which will be presented to LAUSD, a second sampling phase for step-out sampling will be conducted over summer recess between June 19 and July 14, 2023.

2.1 UTILITY OWNER NOTIFICATION AND GEOPHYSICAL SURVEY

As required by Underground Service Alert (USA), the proposed soil sampling locations will be marked with white paint and USA will be notified of the proposed drilling locations at least 72 hours prior to initiating drilling activities. USA will contact all utility owners of record within the Site vicinity and notify them of the planned subsurface investigation. All utility owners of record, or their designated agents, will be expected to clearly mark the position of their utilities on the ground surface throughout the area designated for investigation, up to the school property line.

The proposed boring locations will also be surveyed by a private utility locator for the presence of underground utilities using geophysical methods (including ground penetrating radar, electromagnetic utility locating, and deep search metal detector).

2.2 SOIL SAMPLING AND ANALYSES

Soil samples in the top 3 feet will be collected using a hand auger. Soil samples will be collected in new laboratory-provided glass jars, which will then be placed in individual sealable plastic bags. Each sample jar will be labeled individually, stored in an ice chest, and delivered to the laboratory with a chain-of-custody form. Soil samples will be collected from 54 locations throughout the Campus as identified on Figure 3. Samples at each location will be collected from 0 to 0.5 feet (starting at bottom of pavement, if present), 1.5 to 2.0 feet and 2.5 to 3.0 feet bgs. Excess soil from each boring will be temporarily stored in a Department of Transportation (DOT) approved container.

Per LAUSD request, boring logs will not be generated, but general soil types will be noted to allow a comparison between analytical results and soil types. Soil samples will be analyzed by a California Environmental Laboratory Accreditation Program (ELAP) certified laboratory. The samples will be analyzed as follows:

- Samples collected to assess lead will be analyzed using EPA Method 6010B.
- Samples collected to assess arsenic will be analyzed using EPA Method 6020.
- Samples collected to assess OCPs will be analyzed using EPA Method 8081.
- Samples collected to assess TPH will be analyzed using EPA Method 8015.
- Samples collected to assess Title 22 Metals will be analyzed using EPA Method 6010/7471.

- Samples collected to assess VOCs will be analyzed using EPA Method 8260B.
- Samples collected to assess PAHs will be analyzed using EPA Method 8270.
- Samples collected to assess PCBs will be analyzed using EPA Method 8082.
- Samples collected to assess asbestos will be analyzed using PLM or 600/R-93/116.

All soil samples collected from 0.0 to 0.5-feet will be analyzed on a standard turnaround time for lead, arsenic and OCPs. Select samples from 0.0 to 0.5-feet will also be analyzed for VOCs, TPH and PCBs based on their location near former school facilities/rooms (i.e., transformers, wood shop and auto repair classrooms) that may have contained/utilized these constituents.

Samples deeper than 0.5 feet will be placed on hold pending the analysis of the 0.0 to 0.5 foot samples. If step down samples need to be analyzed (based on the results of the initial sample analysis), these analyses will be made in consultation with the LAUSD.

Step-down (deeper) samples will be analyzed for any boring location if total lead concentration in a sample is greater than 80 mg/kg, or if an arsenic concentration is greater than 12 mg/kg, after consultation with and confirmation from LAUSD.

A total of 20% of the samples collected will be analyzed to determine if results will trigger South Coast Air Quality Management District (SCAQMD) Rule 1466 monitoring during construction. These analyses will include the full suite of those identified above, with the exception of VOCs and TPH which are covered under SCAQMD Rule 1166.

As part of the quality assurance/quality control process, duplicate soil samples will be collected at a rate of 10 percent of the total samples collected.

2.3 EQUIPMENT DECONTAMINATION

Equipment used during the hand augering and soil sampling activities will be decontaminated prior to use at each sampling point to reduce the potential for cross-contamination. Equipment (e.g., hand auger, rods, etc.) will be cleaned thoroughly (inside and outside) with a dry decontamination system consisting of wire brushes and wet wipes. If the dry decontamination is ineffective due to material sticking to the hand auger, a wet decontamination system will be used consisting of a wash with a non-phosphate detergent, a rinse with tap water and a final rinse with distilled water. The equipment decontamination system will be set up in a predetermined location near each sampling area. New disposable nitrile gloves will be worn when handling clean sampling equipment to help ensure the equipment is not cross-contaminated.

Decontamination water generated during the field activities will be stored in a properly labeled Department of Transportation-approved container, and sealed and placed in a designated, secure area away from students at the Site. The container will be labeled with the investigation-derived waste (IDW) generation date, associated sample locations, and contents.

2.4 SURFACE RESTORATION

Boreholes will be backfilled with material extracted from the borehole for sampling. Inert material such as sand will placed on top of the boring materials to bring subsurface soil up to existing grade or 3-inches below grade for areas to be capped with asphalt. If the final surface is asphalt, it will match the grade of the surrounding surface and will consist of a minimum of 3 inches of compacts cold-patch asphalt or soil (if boring surface is soil).

2.5 INVESTIGATION DERIVED WASTE (IDW) MANAGEMENT

Potentially contaminated IDW may be generated that include the following:

- Used personal protective equipment (PPE)
- Asphalt Cores

Procedures to be followed for IDW handling:

- Used PPE and disposable equipment will be bagged and placed in a municipal refuse dumpster located at the Site. These wastes are not considered hazardous and can be sent to a municipal landfill.
- Asphalt cores will be double bagged and placed in a labeled DOT-approved container. The container will be sealed so it is watertight, pending receipt of analytical results.

Following receipt of analytical results, the asphalt cores will be disposed at an LAUSD-approved disposal/treatment/recycling facility. Shipping documents (e.g., bill of lading, waste manifest, etc.) will be included in the PEA-E report. All shipping documents will be signed by a representative of LAUSD, with the LAUSD listed as waste generator.

2.6 QUALITY ASSURANCE AND QUALITY CONTROL MEASURES

An integral part of the sampling and analysis plan is quality assurance/quality control (QA/QC) procedures to ensure the reliability and compatibility of all data generated during the investigation. The chemical data to be collected for this effort will be used to determine that the extent of contamination is properly evaluated. These QA/QC procedures include:

- Adherence to protocols for field sampling and decontamination procedures;
- Collection and laboratory analysis of duplicate samples;
- Laboratory analysis of samples to evaluate analytical precision and accuracy; and
- Attainment of completeness goals.

2.7 HEALTH AND SAFETY

Fieldwork will be performed in accordance with a Health and Safety Plan (HASP) and the requirements of the LAUSD. A copy of the HASP will be on-Site during field activities. An Activity Hazard Analysis (AHA) appropriate to each field task will be reviewed and a daily toolbox meeting record will be signed each day prior to the start of any work on-site. A copy of this plan will be provided on request. It should be noted that some of the asphalt coring

operations may be conducted in areas with the potential to have asbestos containing construction materials (ACCM) present. This work will be overseen by a California Certified Asbestos Consultant and will be conducted with California Certified Asbestos Technicians.

3.0 REPORTING AND SCHEDULE

A summary report documenting the soil sampling activities and results will be provided to the LAUSD in a PEA-E report. The report will include, at a minimum, the following information:

- Executive Summary,
- Site Description and Background,
- Environmental Setting,
- Discussion of Phase I ESA items,
- Sampling Activities and Results,
- Human Health Screening Evaluation (HHSE) and/or comparison of the sampling results to the preliminary screening levels PSLs (e.g., if all below PSLs, no HHSE is needed),
- Final Community Profile/Outreach document as an appendix including Transcript from Public Meeting,
- Photographs, Figures and Tables,
- Opinion of Environmental Professionals,
- Conclusions and Recommendations (no further action or further action is required), and
- References

The following tables and figures will be included in the report:

- Site Location Map
- Site plan and sample location map
- Tabulated analytical results
- Certified analytical laboratory reports
- Investigation-derived waste disposal documentation

4.0 REFERENCES

Department of Toxics Substances Control (DTSC), 2006. *Interim Guidance Evaluation of School Sites with Potential Soil Contamination as a Result of Lead from Lead-Based Paint, Organochlorine Pesticides from Termiticides, and Polychlorinated Biphenyls from Electrical Transformers,* June 9 (revision date).

DTSC, 2013. *Drilling, Logging, and Sampling at Contaminated Sites,* June.

Eco & Associates, Inc., 2019. *Phase I Environmental Site Assessment Report, Canoga Park High School, 6850 Topanga Canyon Boulevard, Canoga Park, California*. February 18.

Table

Table 1
Proposed Soil Sampling Program
Preliminary Environmental Assessment - Equivalent Investigation
Canoga Park High School

Boring Name	Sample Depth (feet bgs)	Analytes								Laboratory Analytical Method(s)	Comments
		Arsenic	Lead	OCPs	PCBs	Asbestos, PAHs	Title 22 Metals + CrVI	VOCs	TPH		
SB-01	0-0.5	X	X	X						EPA Methods 6010, 6020, 8081	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H						Archive	
	2.5-3	H	H	H						Archive	
SB-02	0-0.5	X	X	X				X	X	EPA Methods 6010, 6020, 8081, 8260, 8015	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H				H	H	Archive	
	2.5-3	H	H	H				H	H	Archive	
SB-03	0-0.5	X	X	X				X	X	EPA Methods 6010, 6020, 8081	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H				H	H	Archive	
	2.5-3	H	H	H				H	H	Archive	
SB-04	0-0.5	X	X	X						EPA Methods 6010, 6020, 8081	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H						Archive	
	2.5-3	H	H	H						Archive	
SB-05	0-0.5	X	X	X						EPA Methods 6010, 6020, 8081	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H						Archive	
	2.5-3	H	H	H						Archive	
SB-06	0-0.5	X	X	X	X	X	X			EPA Methods 6010, 6020, 8081, 7199, Asbetos PLM, 8082, 8270, 7470A	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H	H	H	H			Archive	
	2.5-3	H	H	H	H	H	H			Archive	
SB-07	0-0.5	X	X	X						EPA Methods 6010, 6020, 8081	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H						Archive	
	2.5-3	H	H	H						Archive	
SB-08	0-0.5	X	X	X						EPA Methods 6010, 6020, 8081	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H						Archive	
	2.5-3	H	H	H						Archive	
SB-09	0-0.5	X	X	X						EPA Methods 6010, 6020, 8081	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H						Archive	
	2.5-3	H	H	H						Archive	
SB-10	0-0.5	X	X	X						EPA Methods 6010, 6020, 8081	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H						Archive	
	2.5-3	H	H	H						Archive	
SB-11	0-0.5	X	X	X	X	X	X			EPA Methods 6010, 6020, 8081, 7199, Asbetos PLM, 8082, 8270, 7470A	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H	H	H	H			Archive	
	2.5-3	H	H	H	H	H	H			Archive	
SB-12	0-0.5	X	X	X						EPA Methods 6010, 6020, 8081	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H						Archive	
	2.5-3	H	H	H						Archive	
SB-13	0-0.5	X	X	X						EPA Methods 6010, 6020, 8081	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H						Archive	
	2.5-3	H	H	H						Archive	
SB-14	0-0.5	X	X	X						EPA Methods 6010, 6020, 8081	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H						Archive	
	2.5-3	H	H	H						Archive	
SB-15	0-0.5	X	X	X						EPA Methods 6010, 6020, 8081	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H						Archive	
	2.5-3	H	H	H						Archive	
SB-16	0-0.5	X	X	X						EPA Methods 6010, 6020, 8081	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H						Archive	
	2.5-3	H	H	H						Archive	
SB-17	0-0.5	X	X	X						EPA Methods 6010, 6020, 8081	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H						Archive	
	2.5-3	H	H	H						Archive	
SB-18	0-0.5	X	X	X						EPA Methods 6010, 6020, 8081	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H						Archive	
	2.5-3	H	H	H						Archive	
SB-19	0-0.5	X	X	X						EPA Methods 6010, 6020, 8081	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H						Archive	
	2.5-3	H	H	H						Archive	
SB-20	0-0.5	X	X	X	X	X	X			EPA Methods 6010, 6020, 8081, 7199, Asbetos PLM, 8082, 8270, 7470A	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H	H	H	H			Archive	
	2.5-3	H	H	H	H	H	H			Archive	
SB-21	0-0.5	X	X	X						EPA Methods 6010, 6020, 8081	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H						Archive	
	2.5-3	H	H	H						Archive	
SB-22	0-0.5	X	X	X	X	X	X			EPA Methods 6010, 6020, 8081, 7199, Asbetos PLM, 8082, 8270	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H	H	H	H			Archive	
	2.5-3	H	H	H	H	H	H			Archive	
SB-23	0-0.5	X	X	X						EPA Methods 6010, 6020, 8081	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H						Archive	
	2.5-3	H	H	H						Archive	
SB-24	0-0.5	X	X	X	X					EPA Methods 6010, 6020, 8081	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H	H					Archive	
	2.5-3	H	H	H	H					Archive	
SB-25	0-0.5	X	X	X						EPA Methods 6010, 6020, 8081	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H						Archive	
	2.5-3	H	H	H						Archive	
SB-26	0-0.5	X	X	X	X	X	X			EPA Methods 6010, 6020, 8081, 7199, Asbetos PLM, 8082, 8270, 7470A	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H	H	H	H			Archive	
	2.5-3	H	H	H	H	H	H			Archive	
SB-27	0-0.5	X	X	X						EPA Methods 6010B, 6020, 8081	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H						Archive	
	2.5-3	H	H	H						Archive	

Table 1
Proposed Soil Sampling Program
Preliminary Environmental Assessment - Equivalent Investigation
Canoga Park High School

Boring Name	Sample Depth (feet bgs)	Analytes								Laboratory Analytical Method(s)	Comments
		Arsenic	Lead	OCPs	PCBs	Asbestos, PAHs	Title 22 Metals + CrVI	VOCs	TPH		
SB-28	0-0.5	X	X	X						EPA Methods 6010, 6020, 8081	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H						Archive	
	2.5-3	H	H	H						Archive	
SB-29	0-0.5	X	X	X						EPA Methods 6010, 6020, 8081	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H						Archive	
	2.5-3	H	H	H						Archive	
SB-30	0-0.5	X	X	X						EPA Methods 6010, 6020, 8081	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H						Archive	
	2.5-3	H	H	H						Archive	
SB-31	0-0.5	X	X	X	X	X	X			EPA Methods 6010, 6020, 8081, 7199, Asbetos PLM, 8082, 8270, 7470A	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H	H	H	H			Archive	
	2.5-3	H	H	H	H	H	H			Archive	
SB-32	0-0.5	X	X	X						EPA Methods 6010, 6020, 8081	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H						Archive	
	2.5-3	H	H	H						Archive	
SB-33	0-0.5	X	X	X	X	X	X			EPA Methods 6010, 6020, 8081, 7199, Asbetos PLM, 8082, 8270, 7470A	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H	H	H	H			Archive	
	2.5-3	H	H	H	H	H	H			Archive	
SB-34	0-0.5	X	X	X	X					EPA Methods 6010, 6020, 8081	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H	H					Archive	
	2.5-3	H	H	H	H					Archive	
SB-35	0-0.5	X	X	X	X					EPA Methods 6010, 6020, 8081	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H	H					Archive	
	2.5-3	H	H	H	H					Archive	
SB-36	0-0.5	X	X	X				X	X	EPA Methods 6010, 6020, 8081	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H				H	H	Archive	
	2.5-3	H	H	H				H	H	Archive	
SB-37	0-0.5	X	X	X				X	X	EPA Methods 6010, 6020, 8081	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H				H	H	Archive	
	2.5-3	H	H	H				H	H	Archive	
SB-38	0-0.5	X	X	X						EPA Methods 6010, 6020, 8081	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H						Archive	
	2.5-3	H	H	H						Archive	
SB-39	0-0.5	X	X	X	X	X	X			EPA Methods 6010, 6020, 8081, 7199, Asbetos PLM, 8082, 8270, 7470A	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H	H	H	H			Archive	
	2.5-3	H	H	H	H	H	H			Archive	
SB-40	0-0.5	X	X	X						EPA Methods 6010, 6020, 8081	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H						Archive	
	2.5-3	H	H	H						Archive	
SB-41	0-0.5	X	X	X						EPA Methods 6010, 6020, 8081	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H						Archive	
	2.5-3	H	H	H						Archive	
SB-42	0-0.5	X	X	X						EPA Methods 6010, 6020, 8081	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H						Archive	
	2.5-3	H	H	H						Archive	
SB-43	0-0.5	X	X	X						EPA Methods 6010, 6020, 8081	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H						Archive	
	2.5-3	H	H	H						Archive	
SB-44	0-0.5	X	X	X						EPA Methods 6010, 6020, 8081	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H						Archive	
	2.5-3	H	H	H						Archive	
SB-45	0-0.5	X	X	X	X	X	X			EPA Methods 6010, 6020, 8081, 7199, Asbetos PLM, 8082, 8270, 7470A	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H	H	H	H			Archive	
	2.5-3	H	H	H	H	H	H			Archive	
SB-46	0-0.5	X	X	X						EPA Methods 6010, 6020, 8081	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H						Archive	
	2.5-3	H	H	H						Archive	
SB-47	0-0.5	X	X	X	X	X	X			EPA Methods 6010, 6020, 8081, 7199, Asbetos PLM, 8082, 8270, 7470A	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H	H	H	H			Archive	
	2.5-3	H	H	H	H	H	H			Archive	
SB-48	0-0.5	X	X	X						EPA Methods 6010, 6020, 8081	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H						Archive	
	2.5-3	H	H	H						Archive	
SB-49	0-0.5	X	X	X						EPA Methods 6010, 6020, 8081	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H						Archive	
	2.5-3	H	H	H						Archive	
SB-50	0-0.5	X	X	X						EPA Methods 6010, 6020, 8081	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H						Archive	
	2.5-3	H	H	H						Archive	
SB-51	0-0.5	X	X	X						EPA Methods 6010, 6020, 8081	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H						Archive	
	2.5-3	H	H	H						Archive	
SB-52	0-0.5	X	X	X						EPA Methods 6010, 6020, 8081	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H						Archive	
	2.5-3	H	H	H						Archive	
SB-53	0-0.5	X	X	X	X	X	X			EPA Methods 6010, 6020, 8081, 7199, Asbetos PLM, 8082, 8270, 7470A	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H	H	H	H			Archive	
	2.5-3	H	H	H	H	H	H			Archive	
SB-54	0-0.5	X	X	X						EPA Methods 6010, 6020, 8081, 7199, Asbetos PLM, 8082, 8270, 7470A	Borings sampled at 0.5-ft intervals, advanced to 3-feet total depth
	1.5-2	H	H	H						Archive	
	2.5-3	H	H	H						Archive	

OCPs = Organochlorine Pesticides (8081A)
Lead (6010)
Arsenic (6020)
PCBs = Polychlorinated biphenyls (8082)
VOCs = Volatile Organic Compounds (8260B)
TPH = Total petroleum hydrocarbons (full-carbon chain by 8015M)

Samples will be screened using a photo-ionization detector

Figures

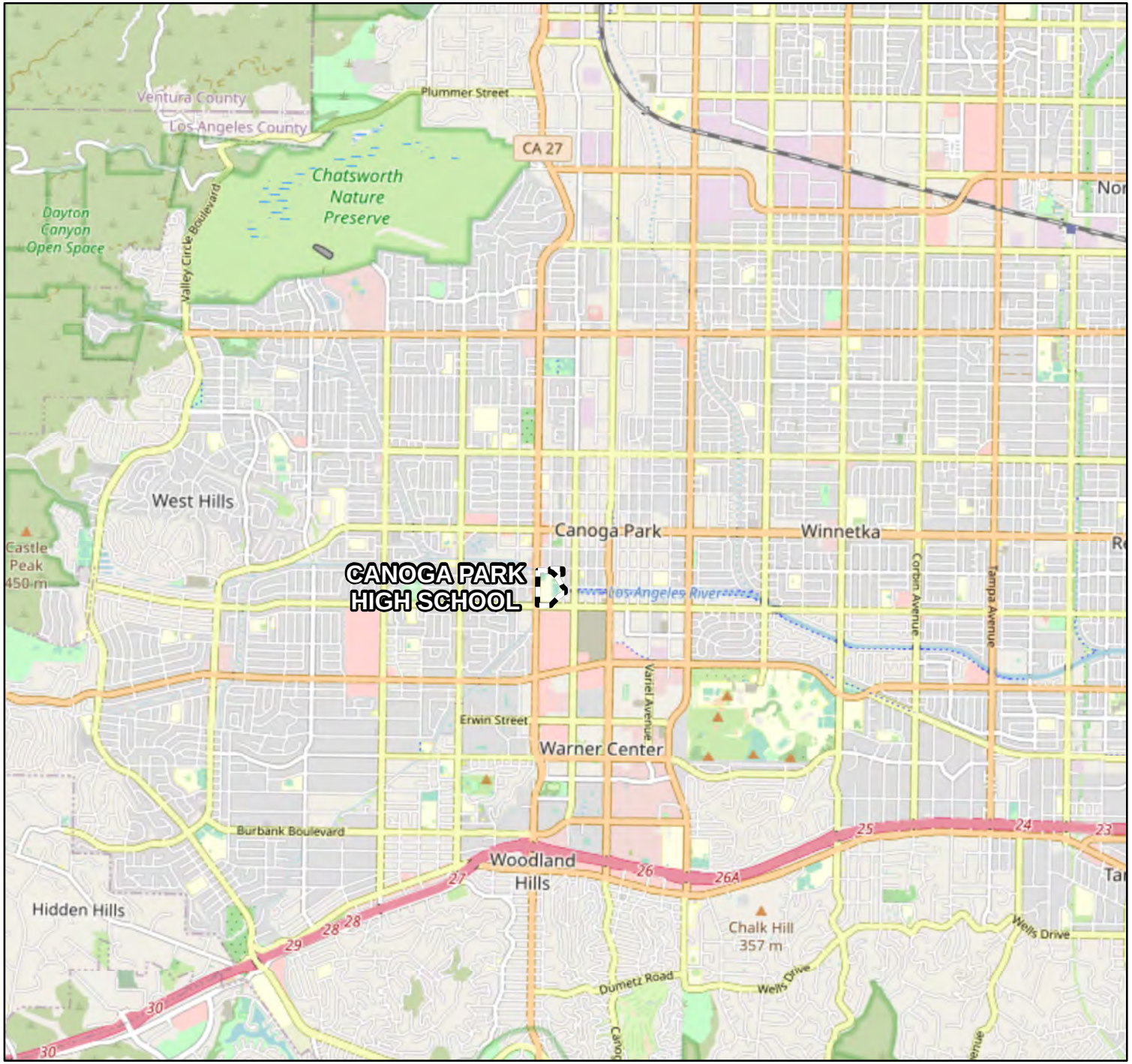


FIGURE 1

CANOGA PARK HIGH SCHOOL SITE MAP

Canoga Park High School
6850 CA-27
Canoga Park, California

Legend

School Property



PARSONS

Coordinate System: Image - Open Street
WGS 1984 UTM Zone 11N

2,500 0 2,500 5,000 Feet

N

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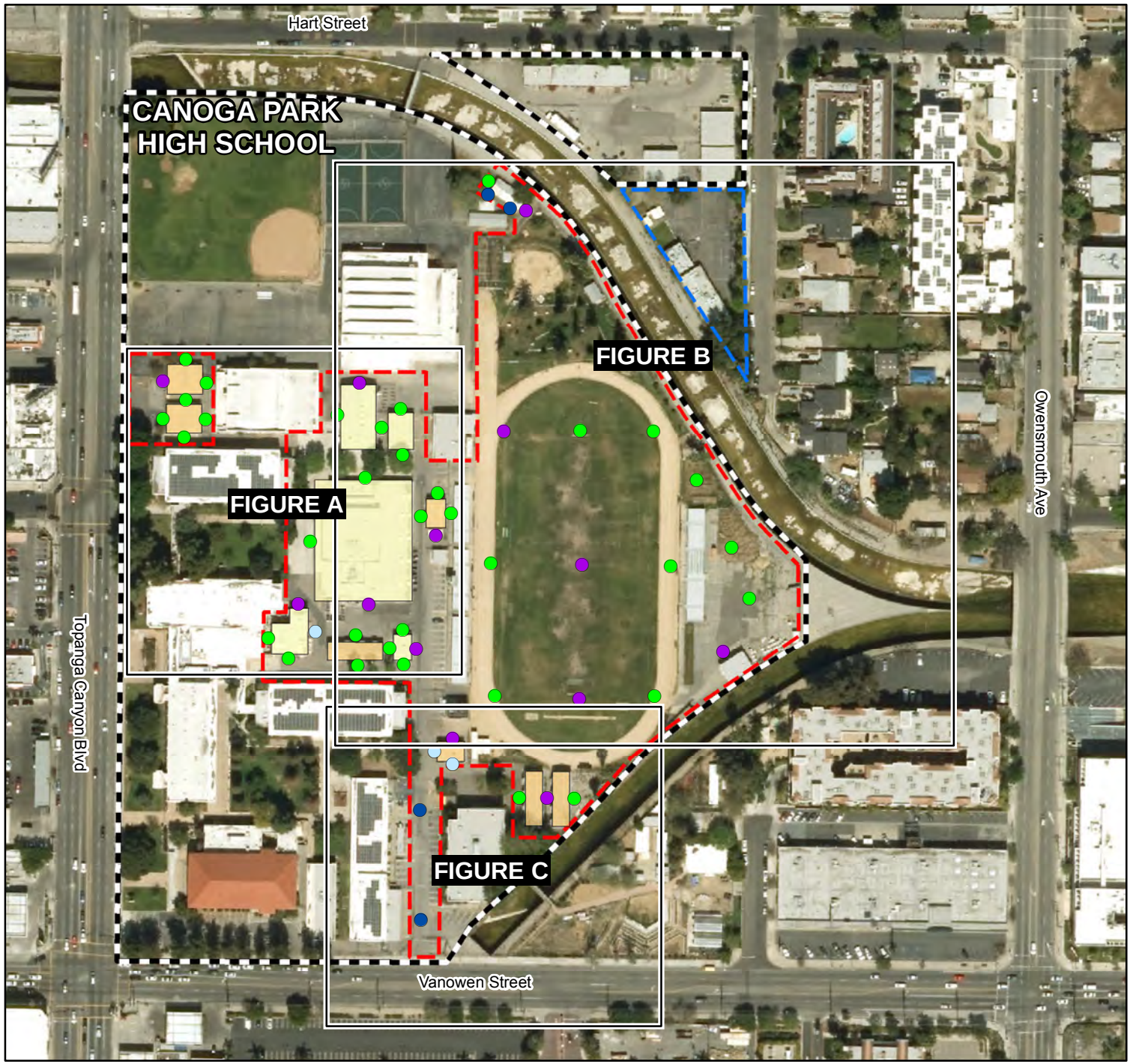

FIGURE 2

CANOGA PARK HIGH SCHOOL SITE MAP

Canoga Park High School
6850 CA-27
Canoga Park, California

Legend

Proposed Soil Boring - Analytes to be Sampled:

- Lead, Arsenic, OCPs
- Lead, Arsenic, OCPs, PCBs
- Lead, Arsenic, OCPs, TPH, VOCs
- 20% of Samples Analyzed for Rule 1466 Compounds
- Buildings to be Removed
- Portables to be Removed
- Continuation of High School
- Development
- School Property

PARSONS

Coordinate System: WGS 1984 UTM Zone 11N
Image - LA County, LARIAC4, 2013

100 0 100 200 Feet

N

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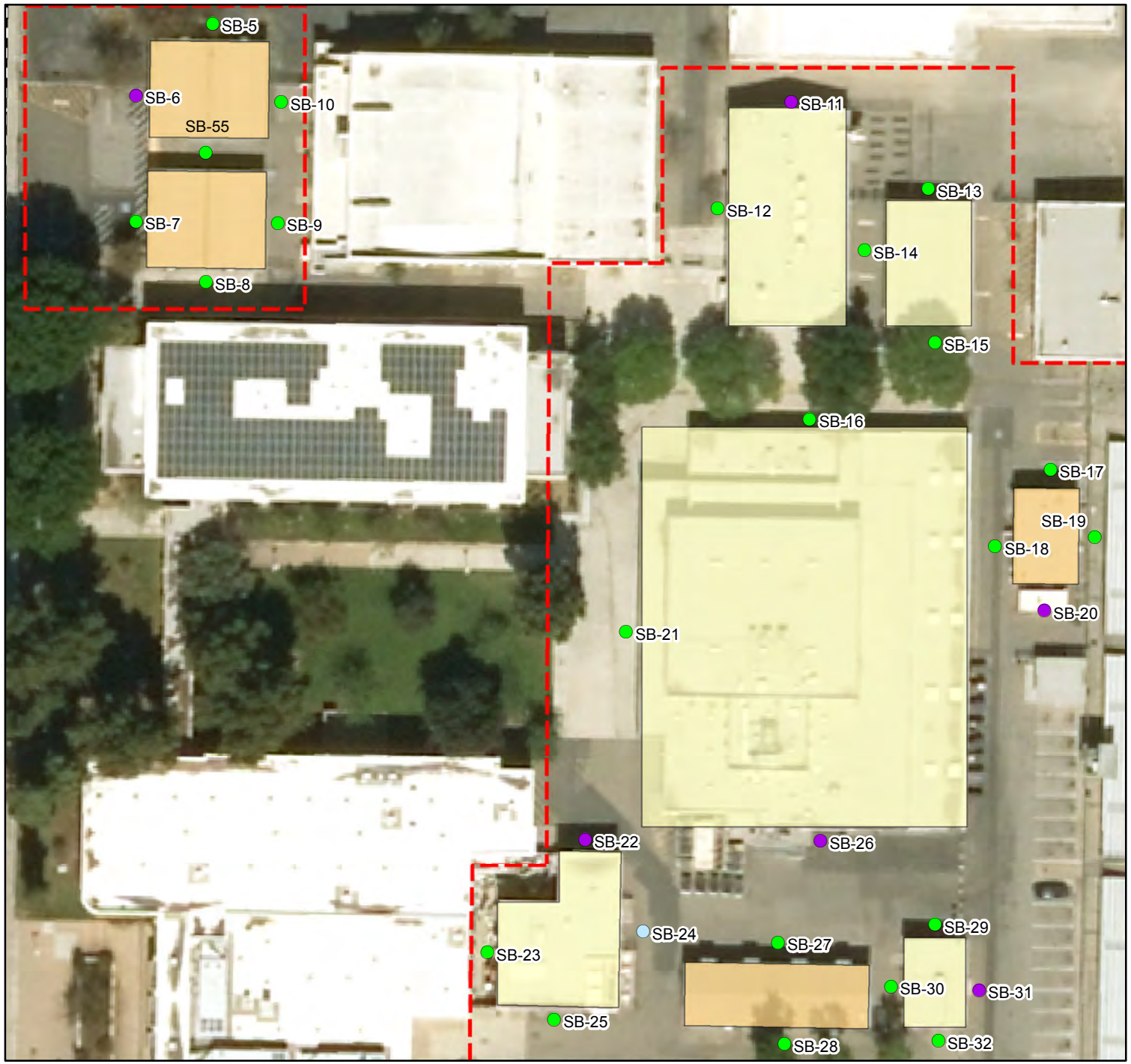

FIGURE A

CANOGA PARK HIGH SCHOOL PROPOSED SAMPLING PLAN

Canoga Park High School
6850 CA-27
Canoga Park, California

Legend

Proposed Soil Boring - Analytes to be Sampled:

- Lead, Arsenic, OCPs
- Lead, Arsenic, OCPs, PCBs
- 20% of Samples Analyzed for Rule 1466 Compounds
- Buildings to be Removed
- Portables to be Removed
- Development
- School Property

PARSONS

Coordinate System: WGS 1984 UTM Zone 11N
Image - LA County, LARIAC4, 2013

30 0 30 60 Feet

N

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FIGURE B

CANOGA PARK HIGH SCHOOL PROPOSED SAMPLING PLAN

Canoga Park High School
6850 CA-27
Canoga Park, California

Legend

Proposed Soil Boring - Analytes to be Sampled:

- Lead, Arsenic, OCPs
- Lead, Arsenic, OCPs, TPH, VOCs
- 20% of Samples Analyzed for Rule 1466 Compounds
- Buildings to be Removed
- Portables to be Removed
- Continuation of High School
- Development
- School Property

PARSONS

Coordinate System: WGS 1984 UTM Zone 11N
Image - LA County, LARIAC4, 2013

55 0 55 110 Feet

N

PATH: F:\GISCADD\projects\LAUSD_CanogaPark\Mapfiles\LAUSD_CanogaPark_ProposedSamps_B.mxd Date: 3/30/2023



FIGURE C

CANOGA PARK HIGH SCHOOL PROPOSED SAMPLING PLAN

Canoga Park High School
6850 CA-27
Canoga Park, California

Legend

Proposed Soil Boring - Analytes to be Sampled:

- Lead, Arsenic, OCPs
- Lead, Arsenic, OCPs, PCBs
- Lead, Arsenic, OCPs, TPH, VOCs
- 20% of Samples Analyzed for Rule 1466 Compounds
- Portables to be Removed
- Development
- School Property

PARSONS

Coordinate System: WGS 1984 UTM Zone 11N
Image - LA County, LARIAC4, 2013

30 0 30 60 Feet

N

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APPENDIX B

Los Angeles Unified School District

Office of Environmental Health and Safety

MICHELLE KING
Superintendent of Schools

DIANE H. PAPPAS
Chief Executive Officer, Office of Educational Services

ROBERT LAUGHTON
Director, Environmental Health and Safety

CARLOS A. TORRES
Deputy Director, Environmental Health and Safety

December 8, 2017

TO: Neighbors and Community Members of the Reseda High School

FROM: Los Angeles Unified School District
Office of Environmental Health and Safety

REGARDING: Preliminary Environmental Assessment
Reseda High School, Los Angeles, California

The Los Angeles Unified School District (LAUSD) - Office of Environmental Health and Safety (OEHS) would like to provide you with advance notice of a Preliminary Environmental Assessment (PEA) that will be conducted within the boundaries of Reseda High School, located at 18230 Kittridge Street, Reseda, California. The PEA will be conducted across most of the campus scheduled to undergo a comprehensive modernization.

A licensed contractor, working on behalf of LAUSD, will perform the environmental investigation under the independent oversight of the LAUSD-OEHS, which is independent from the LAUSD Facilities Services Division (The Facilities Services Division is the responsible Branch for the development and construction of the project). The environmental investigation will consist of the sampling of soil in the locations on campus where existing buildings will be demolished, new buildings will be constructed, and where a former clarifier, paint spray booth, and incinerator were previously located. Soil will be analyzed for potential residual arsenic, hydrocarbons, lead-based paint, polychlorinated biphenyls (PCBs), organochlorine pesticides (OCPs), dioxins/furans, and volatile organic compounds (VOCs) in soil and soil gas. If necessary, a soil cleanup will be performed prior to construction activities to protect students, faculty, and staff.

Fieldwork is scheduled to begin on December 18, 2017, and is expected to be completed in 6 days. All fieldwork is scheduled to be conducted when students are away from school, between 7:00 am and 5:00 pm.

The results of the investigation will be submitted to LAUSD-OEHS in a report for review. The report will include an assessment of whether any of the above listed compounds are present in soil at concentrations that would require further assessment or a response action before the Site is cleared for construction activities. When the OEHS's review is complete, OEHS will issue a determination with regard to the assessment.

If you have any questions concerning the upcoming environmental investigation or other related activities for the proposed comprehensive modernization of Reseda High School, please contact Dane Robinson, LAUSD Office of Environmental Health and Safety Site Assessment Project Manager, at (213) 241-4122 (email at dane.robinson@lausd.net).

Si desea información en Español comuníquese con Teresa Akins en FSD Relaciones con la Comunidad al (213) 241-1326 (línea directa) o (213) 241-1340 (línea principal) o por correo electrónico a teresa.akins@lausd.net.

Los Angeles Unified School District

Office of Environmental Health and Safety

MICHELLE KING
Superintendent of Schools

DIANE H. PAPPAS
Chief Executive Officer, Office of Educational Services

ROBERT LAUGHTON
Director, Environmental Health and Safety

CARLOS A. TORRES
Deputy Director, Environmental Health and Safety

8 de diciembre de 2017

PARA: Vecinos y Miembros de la Comunidad de Reseda High School

DE: Distrito Escolar Unificado de Los Ángeles
Oficina de Salud y Seguridad Ambiental

ASUNTO: Evaluación Ambiental Preliminar
Reseda High School, Los Angeles, California

La Oficina de Salud y Seguridad Ambiental (OEHS) del Distrito Escolar Unificado de Los Ángeles (LAUSD) les informa con anticipación que se llevará a cabo una Evaluación Ambiental Preliminar (PEA) dentro de los límites de Reseda High School, ubicada en 18230 Kittridge Street, Reseda, California.. La PEA se llevará a cabo en la mayor parte del campus que será sometido a una modernización integral.

Un contratista con licencia, que trabaja en nombre de LAUSD, realizará la investigación ambiental bajo la supervisión de LAUSD-OEHS, que es independiente de la División de Servicios de Instalaciones de LAUSD (la División de Servicios de Instalaciones es la rama responsable del desarrollo y construcción del proyecto). La investigación ambiental consistirá en la toma de muestras de suelo en aquellos lugares del campus donde se demolerán los edificios existentes, se construirán nuevos edificios y donde anteriormente se encontraba un clarificador, una cabina de pintura y un incinerador se encontraban anteriormente. El suelo se analizará para detectar la posible presencia de arsénico residual, hidrocarburos, pintura a base de plomo, bifenilos policlorados (PCB), pesticidas organoclorados (OCP), compuestos orgánicos volátiles (VOC) en el suelo y gas del suelo. De ser necesario, se realizará una limpieza del suelo antes de que comiencen las actividades de construcción para proteger a los estudiantes, profesores y personal.

El trabajo de campo está programado para comenzar el 18 de diciembre de 2017, y se anticipa que terminará en seis días. Todo el trabajo de campo está programado para llevarse a cabo cuando los estudiantes no estén en la escuela, entre las 7:00 am y 5:00 pm.

Los resultados de la investigación se presentaran a LAUSD-OEHS en un informe para su revisión. El informe incluirá una evaluación en la cual se especificará si cualquiera de los compuestos mencionados anteriormente se encuentra presente en concentraciones tales que requeriría una mayor evaluación, o si se requieren acciones de respuesta antes de que se limpie el Sitio para iniciar las actividades de construcción. Una vez concluida la revisión de OEHS, OEHS emitirá una determinación con respecto a la evaluación.

Si tiene cualquier duda o pregunta relacionada con la investigación ambiental u otras actividades relacionadas con la modernización integral de Reseda High School propuesta, favor de contactar a Ddiane Robinson, Gerente de Proyecto de Evaluación de Sitios de la Oficina de Salud y Seguridad Ambiental de LAUSD al teléfono (213) 241-4122 (o por correo electrónico a dane.robinson@lausd.net)

Si desea información en Español comuníquese con Teresa Akins en FSD Relaciones con la Comunidad al (213) 241-1326 (línea directa) o (213) 241-1340 (línea principal) o por correo electrónico a teresa.akins@lausd.net.

APPENDIX C

SubSurface Surveys
& Associates, Inc.
An Applied Geophysical Company

2075 Corte Del Nogal, Suite W
Carlsbad, CA 92011

Office: (760) 476-0492
Fax: (760) 476-0493

April 11, 2023

Project/Invoice No. 23-116

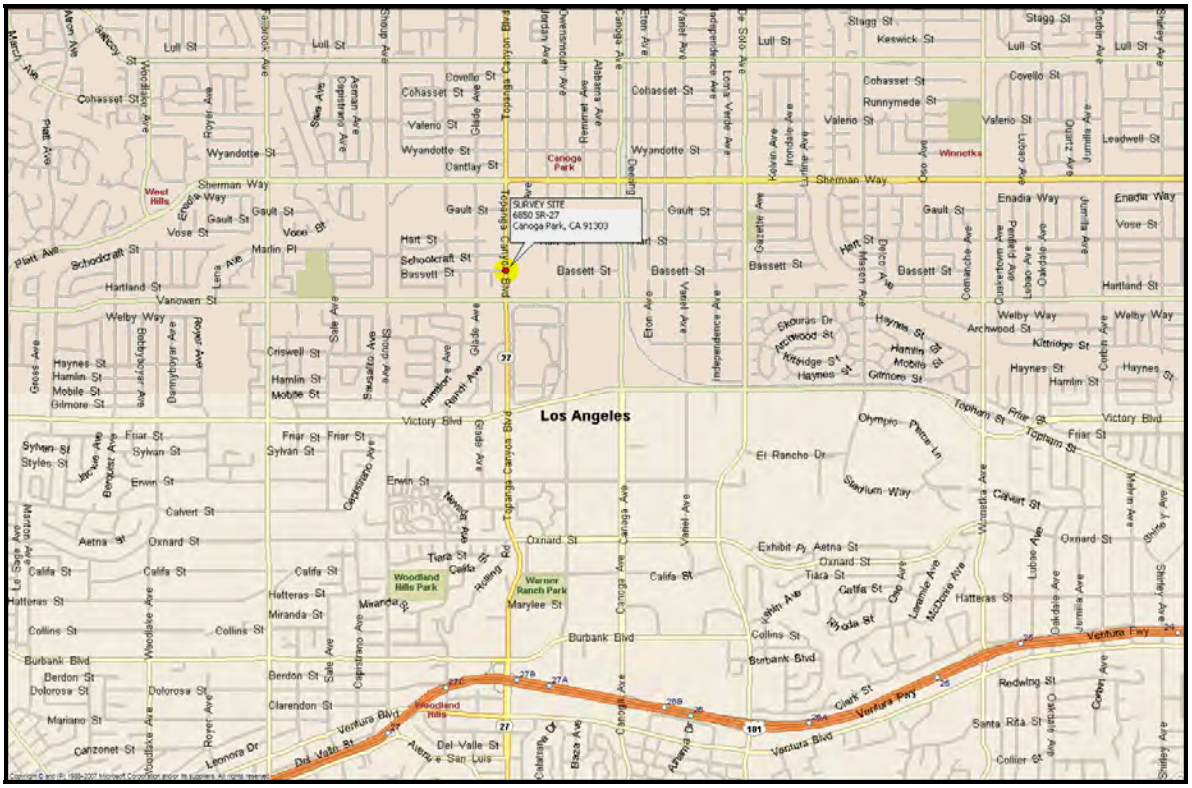
Parsons
100 West Walnut Street
Pasadena, CA 91124

Attn: **Justin King**

Re: Geophysical Investigation Report, LAUSD Canoga Park High School; 6850 CA-27, Canoga Park, California 91303

This report is to present the results of our geophysical survey carried out at LAUSD Canoga Park High School located at 6850 CA-27, Canoga Park, California 91303 (Figure 1). The survey was performed on March 31st & April 3rd, 2023, and its purpose was to locate and identify, insofar as possible, pipes, conduits, utilities, and other underground obstructions within a ten (10) foot radius around fifty-three (53) proposed boreholes.

A combination of electromagnetic induction (EM), magnetometry, and ground penetrating radar (GPR) were brought to the field in anticipation of use. Utility locators with line tracing capabilities were also used where applicable.


SURVEY SITE
6850 SR-27
Canoga Park, CA 91303
Los Angeles
Canoga Park
Topanga Canyon Blvd
Victory Blvd
Sherman Way
Roscoe Blvd
Nordhoff St
Lull St
Stagg St
Vanowen St
Hart St
Schoolcraft St
Bassett St
Gault St
Vose St
Wyandotte St
Cantlay St
Covello St
Cohasset St
Valerio St
Runnymede St
Keswick St
Enadia Way
Welby Way
Archwood St
Kittridge St
Haynes St
Hamlin St
Mobile St
Gilmore St
Friar St
Sylvan St
Erwin St
Calvert St
Oxnard St
Califa St
Tiara St
Exhibit A
Aetna St
Hatteras St
Miranda St
Collins St
Burbank Blvd
Berdon St
Dolorosa St
Clarendon St
Woodland Hills
Woodland Hills Park
Warner Ranch Park
Marylee St
Rolling Rd
El Rancho Dr
Olympic Place Ln
Stayton Way
Topham St
Redwing St
Santa Rita St
Collier St
Clark St
Del Valle St
Avenue San Luis
Ventura Blvd
Ventura Fwy
Plummer St
Nordhoff St
Devonshire St
Chatsworth St
Parthenia St
Rinaldi St
Lassen St
Prairie St
Saticoy St
Strathern St
Sherman Way
Vanowen St
Victory Blvd
Roscoe Blvd
Nordhoff St
Plummer

Survey Design – The survey site was located at Canoga Park High School. The fifty three boreholes were positioned throughout the school with their exact locations indicated in the field by the client.

For this particular site and survey objectives, the best use of time was achieved by systematically free-traversing with the instruments while monitoring them manually, continuously, and in real-time to determine which responses were significant and due to true subsurface targets, and which were due to other non-target or above-ground features and must be ignored (an example being nearby buildings and rebar reinforced concrete). In these situations, the free-traversing method is advantageous in that it allows for immediate detection of anomalous objects and facilitates the opportunity to investigate them further despite any obstructions and without the need to first download data. Where applicable, and depending on location, the EM devices, magnetic gradiometer, and GPR were traversed systematically over the survey areas in multiple, organized directions. Other traverses were taken for detailing and confirmation where anomalous conditions were found.

In addition, the line tracers were used to impress signals onto pipes, generally through accessible risers and tracer wires when present, to delineate the lines' locations and orientations. The instruments were also used in passive mode, configured to detect 60 Hz electrical signals and other common radio-frequency signals found in active electrical and communication lines.

A Geonic's model EM61 and a Fischer TW-6 M-Scope was used for the EM sampling. A Sensors & Software Noggin Ground Penetrating Radar unit with a 250 MHz antenna produced the radar images. The magnetic gradiometer was a Schonstedt GA-52, and a Metrotech 9890 and RIDGID SR-60 SeekTech utility locator rounded out the tools applied.

Brief Description of the Geophysical Methods Applied – The EM61 instrument is a high resolution, time-domain device for detecting buried conductive objects. It consists of a powerful transmitter that generates a pulsed primary magnetic field when its coils are energized, which induces eddy currents in nearby conductive objects. The decay of the eddy currents, following the input pulse, is measured by the coils, which in turn serve as receiver coils. The decay rate is measured for two coils, mounted concentrically, one above the other. By making the measurements at a relatively long time interval (measured in milliseconds) after termination of the primary pulse, the response is nearly independent of the electrical conductivity of the ground. Thus, the instrument is a super-sensitive metal detector. Due to its unique coil arrangement, the response curve is a single well-defined positive peak directly over a buried conductive object. This facilitates quick and accurate location of targets.

The M-Scope device energizes the ground by producing an alternating primary magnetic field with AC current in a transmitting coil. If conducting materials are within the area of influence of the primary field, AC eddy currents are induced to flow in the conductors. A receiving coil senses the secondary magnetic field produced by these eddy currents, and outputs the response as anomalous conditions. The strength of the secondary field is a function of the conductivity of the object, say a pipe, tank or cluster of drums, its size, and its depth and position relative to the instrument's two coils. Conductive objects, to a depth of approximately 7 feet below ground surface (bgs) for the M-Scope are sensed. The device is also somewhat focused; that is, it is more sensitive to conductors below the instrument than they are to conductors off to the side.

The GPR instrument beams energy into the ground from its transducer/antenna, in the form of electromagnetic waves. A portion of this energy is reflected back to the antenna at a boundary in the

subsurface across which there is an electrical contrast. The instrument produces a continuous record of the reflected energy as the antenna is traversed across the ground surface. The greater the electrical contrast, the higher the amplitude of the returned energy. The radar wave travels at a velocity unique to the material properties of the ground being investigated, and when these velocities are known, the two-way travel times can be converted to depth. The depth of penetration and image resolution produced are a function of ground electrical conductivity and dielectric constant.

The magnetic gradiometer has two flux gate magnetic fixed sensors that are passed closely to and over the ground. When not in close proximity to a magnetic object, that is, only in the earth's field, the instrument emits a sound signal at a low frequency. When the instrument passes over a buried iron or steel object, so that locally there is a high magnetic gradient, the frequency of the emitted sound increases. The frequency is a function of the gradient between the two sensors.

The line locator is used to passively detect energized high voltage electric lines and electrical conduit (50-60 Hz), VLF signals (14-22 kHz), as well as to actively trace other utilities. Where risers are present, the utility locator transmitter can be connected directly to the object, and a signal (9.8-82 kHz) is sent traveling along the conductor, pipe, conduit, etc. In the absence of a riser, the transmitter can be used to impress an input signal on the utility by induction. In either case, the receiver unit is tuned to the input signal, and is used to actively trace the signal along the pipe's surface projection.

Interpretation and Conclusions - The interpretation took place in real time as the survey progressed, and accordingly, the complete findings of our investigation were marked on the ground cover at the site using spray chalk, were reported directly to the client, and are further documented with site photographs of the proposed boreholes (Figures 2-54).

Items detected in the vicinity of the boreholes are highlighted in the accompanying photographs using coordinated standard colors including red for electric, orange for communication, blue for water, yellow for gas, green for sewer and drain, and white for pipes of unknown utility type. Please review the site photographs for the locations and orientations of all items found within the vicinity of the boreholes.

At the conclusion of the survey, all boreholes were either clear as where originally positioned by the client or were moved slightly to provide adequate clearance from detected obstructions. In their final locations, each location was marked in white with a yellow "SSS" to indicate that they had been checked by company personnel.

Limitations and Further Recommendations - It should be understood that limitations inherent in geophysical instruments and/or surveying techniques exist at all sites, and nearly all sites exhibit conditions under which such might not perform optimally. Consequently, the detection of buried objects in all circumstances **cannot be guaranteed**. Such limitations are numerous and include, but are not limited to, rebar-reinforced ground cover, abrupt changes in ground cover type, above-ground obstacles preventing full traverses or traverses in one direction only, above-ground conductive objects interfering with instrument signal, nearby powerlines or EM transmitters, highly conductive background soil conditions, limited GPR penetration, non-metallic targets, shallower or larger objects shielding deeper or smaller targets, tracing signal jumping from one line to another, and inaccessible risers, cleanouts, valve boxes, and manholes. If one or more geophysical instrument is rendered ineffective and cannot be utilized, the quality of the survey can be somewhat degraded.

For the above reasons, and in the interest of maximum safety, we encourage our clients to take advantage of Underground Service Alert (USA), Dig Alert, or other similar services, when possible. Furthermore, we recommend hand-auguring and the use of a drilling method known as air knifing or vacuum extraction, when feasible or if applicable to this project. These methods may significantly limit damage to underground pipes, conduits, and utilities that might not have been detectable during the course of this survey. Please bear in mind, that geophysical surveying is only one of several levels of protection that is available to our clients.

SubSurface Surveys may include maps in some reports. While they are an accurate general representation of the site and our findings, they are not of engineering quality (i.e., measured and mapped by a licensed land surveyor).

SubSurface Surveys and Associates makes no guarantee either expressed or implied regarding the accuracy of the findings and interpretations present. And, in no event will SubSurface Surveys and Associates be liable for any direct, indirect, special, incidental, or consequential damages resulting from interpretations and opinions presented herewith.

All data generated on this project are in confidential file in this office, and are available for review by authorized persons at any time. The opportunity to participate in this investigation is very much appreciated. Please call, if there are questions.

Dustin Renck
Staff Geophysicist, SubSurface Surveys

Travis Crosby
CA State Geophysics Registration GP1044
Senior Geophysicist, SubSurface Surveys



Figure 2

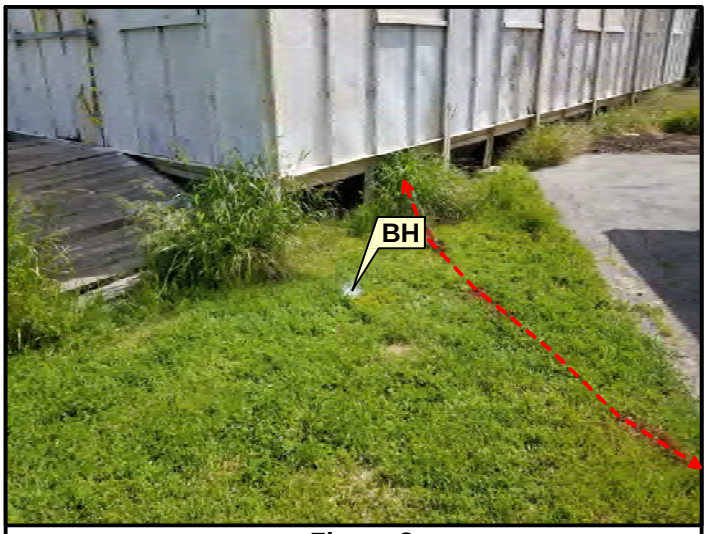


Figure 3



Figure 4



Figure 5



Figure 6



Figure 7

Sub Surface Surveys	SITE: **LAUSD Canoga Park High School** **6850 CA-27** **Canoga Park, California 91303**	TITLE: **Site Photographs**	SURVEY DATE: **March 31 & April 3, 2023**
		PREPARED FOR: **Parsons**	SSS PROJECT NO: **23-116**



Figure 8



Figure 9



Figure 10

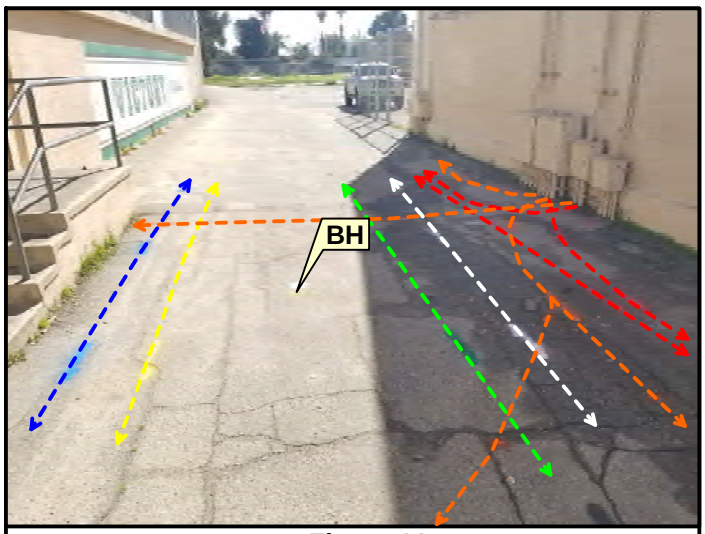


Figure 11



Figure 12



Figure 13

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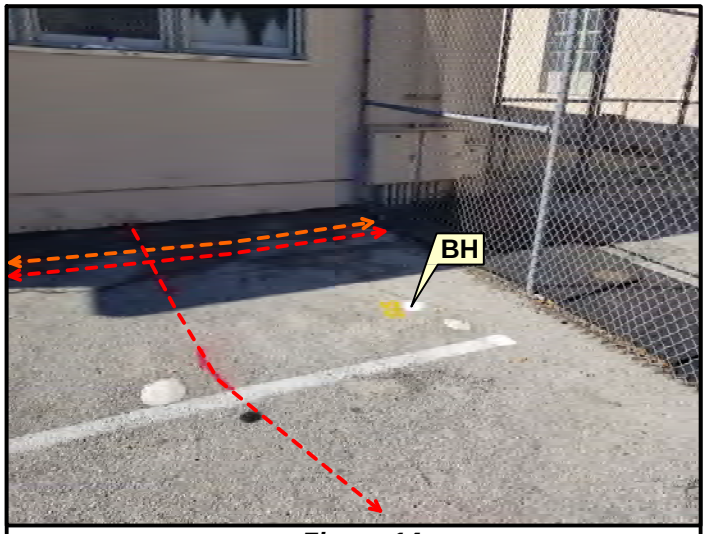

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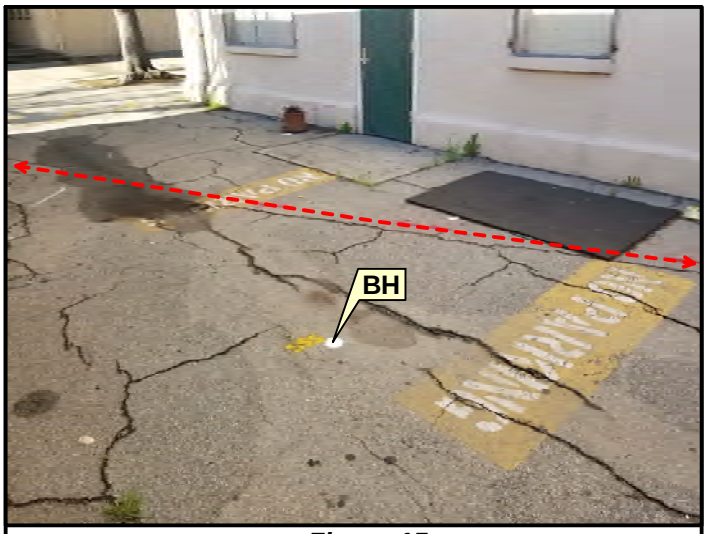

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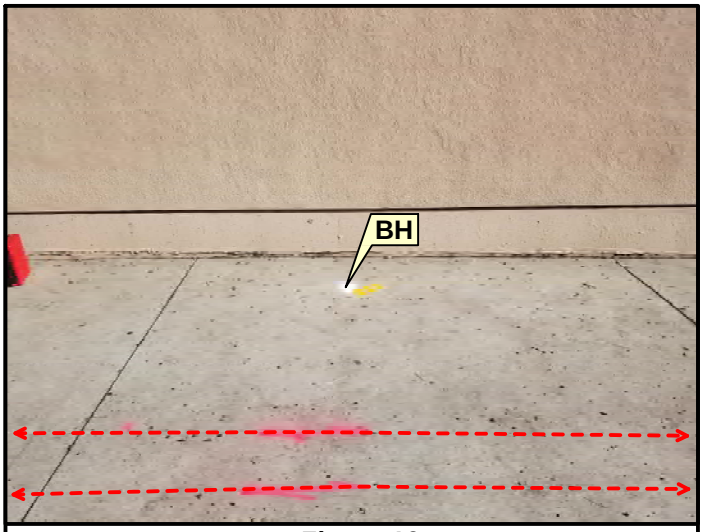

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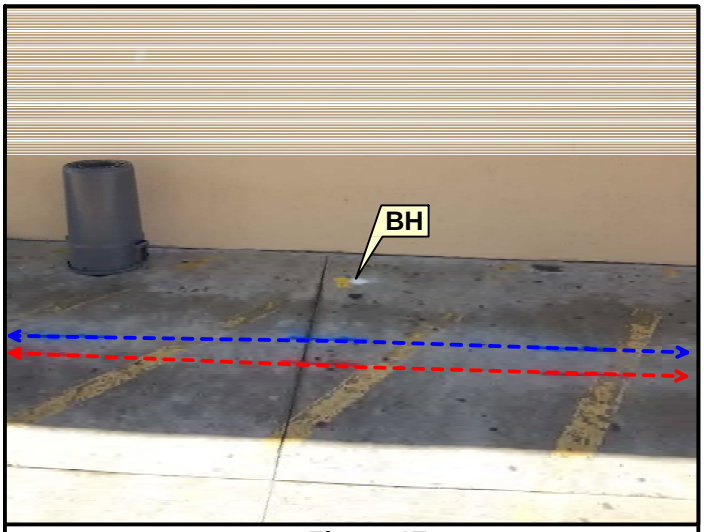

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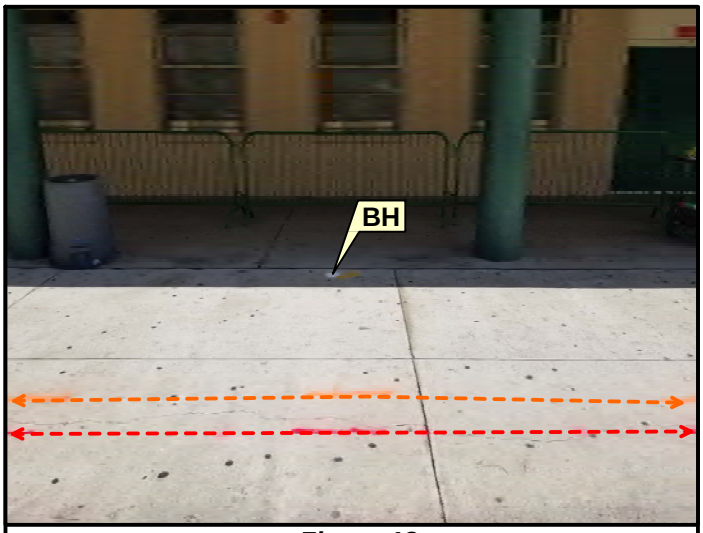

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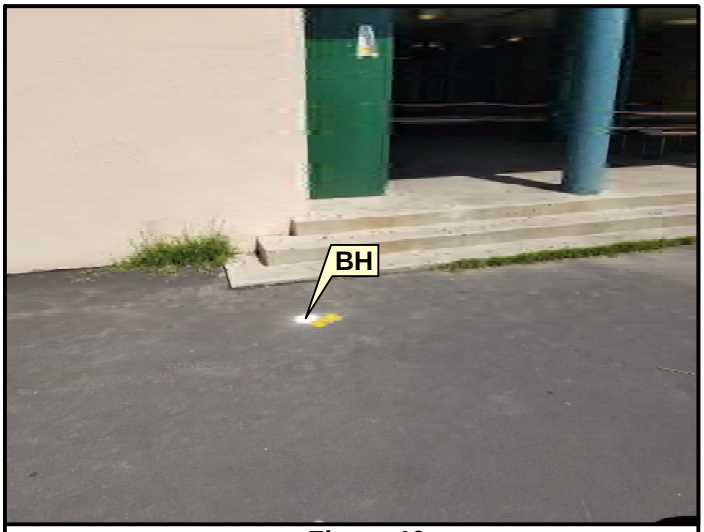

Figure 19

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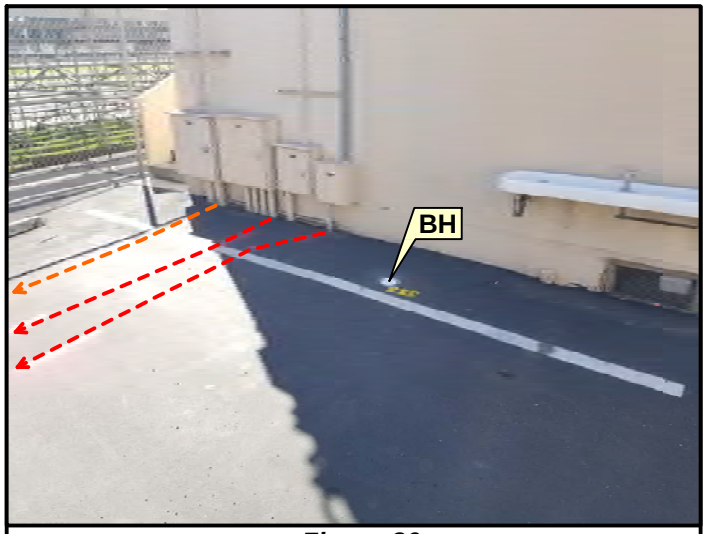

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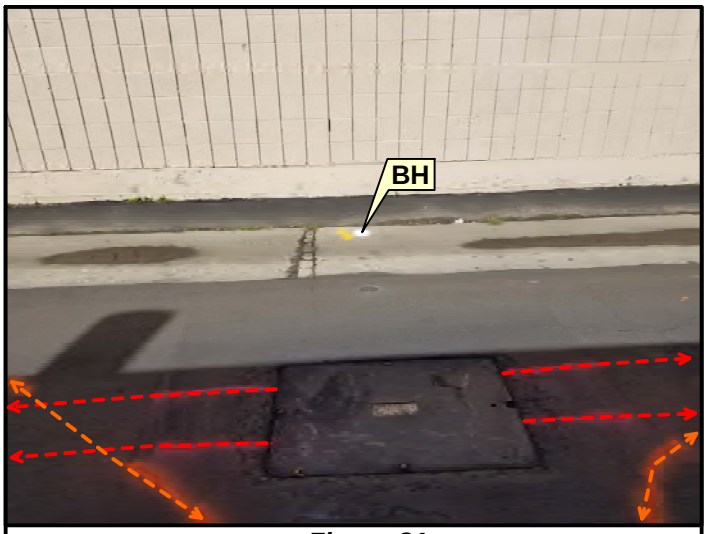

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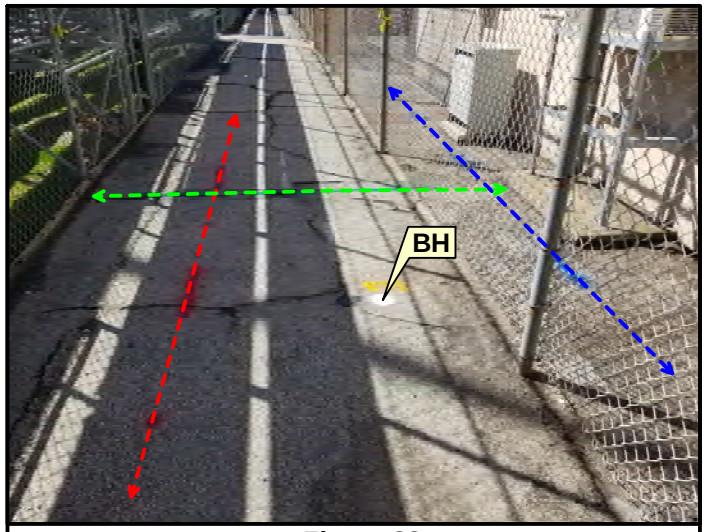

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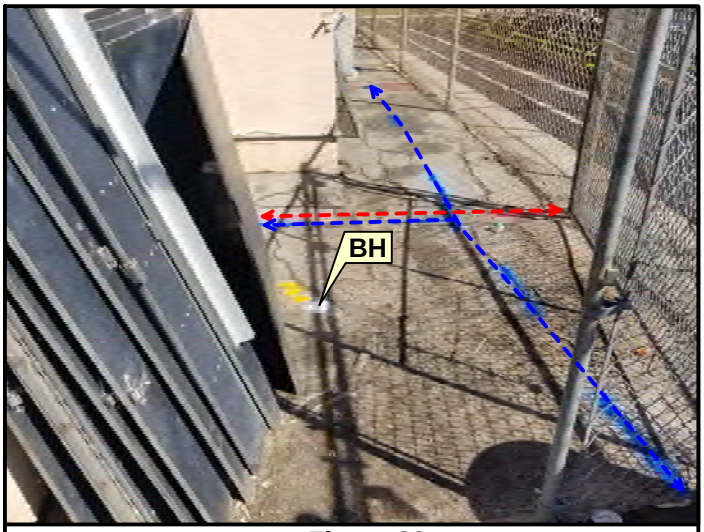

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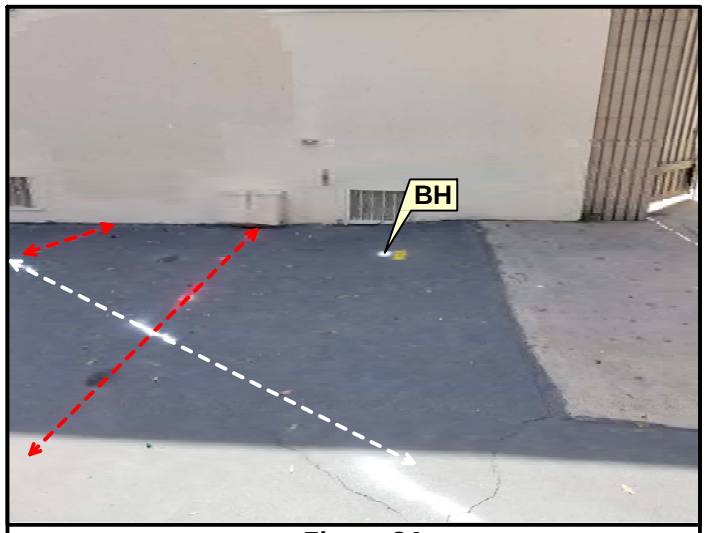

Figure 24



Figure 25

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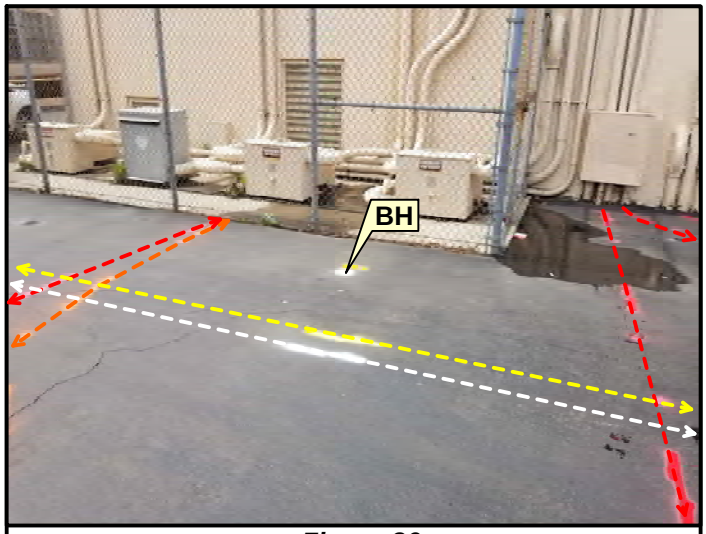

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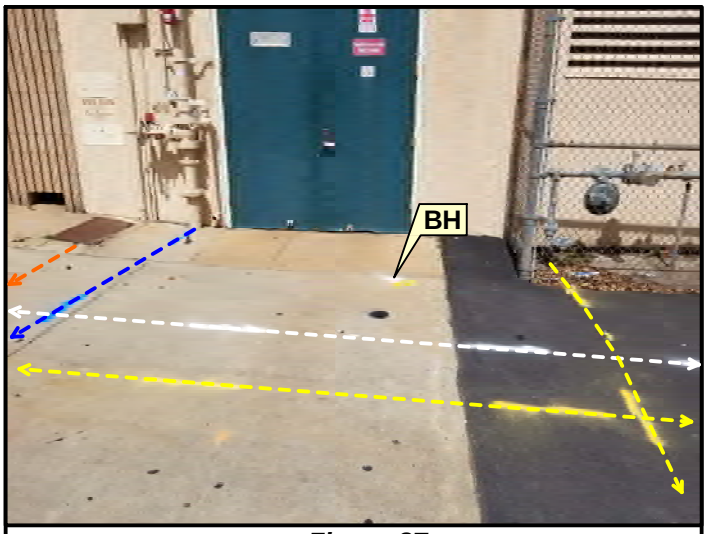

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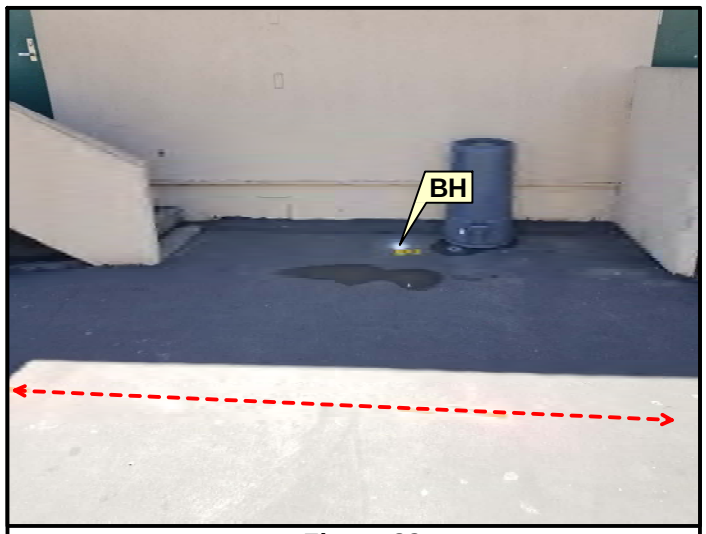

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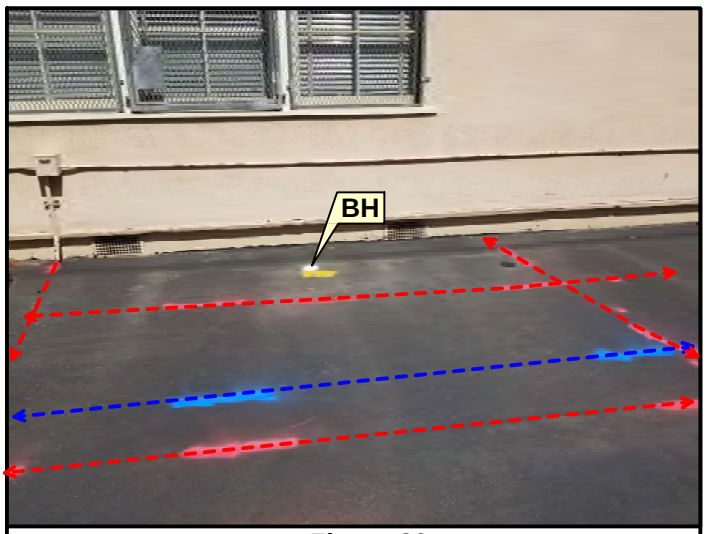

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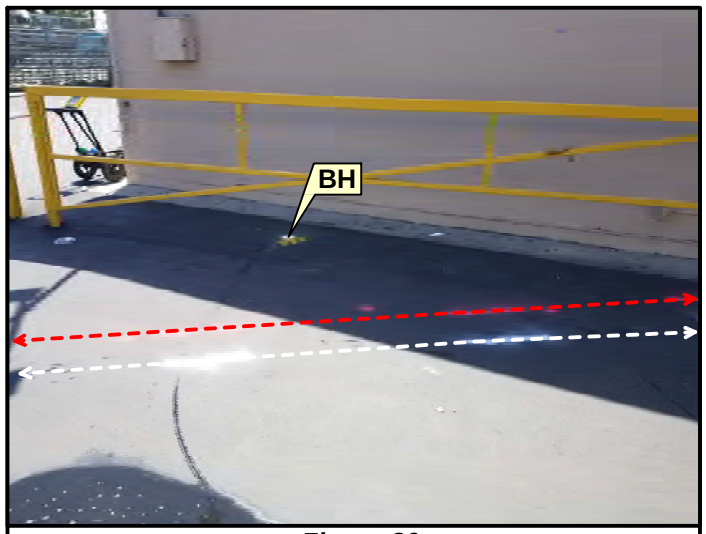

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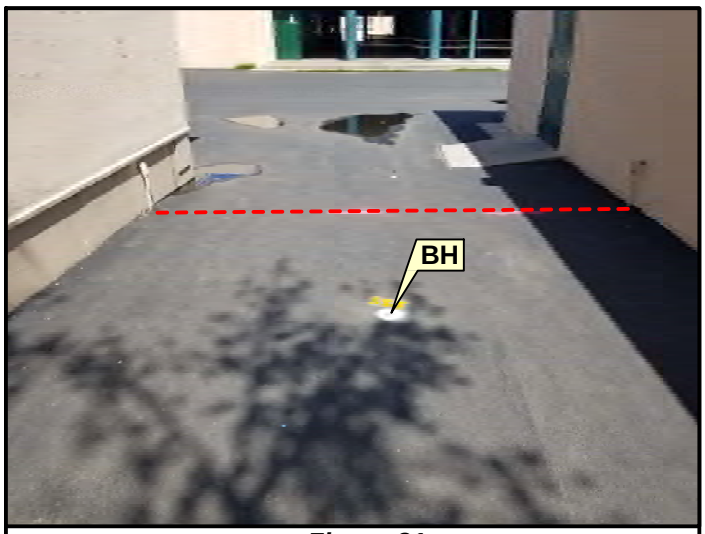

Figure 31

Sub Surface Surveys	SITE: **LAUSD Canoga Park High School** **6850 CA-27** **Canoga Park, California 91303**	TITLE: **Site Photographs**	SURVEY DATE: **March 31 & April 3, 2023**
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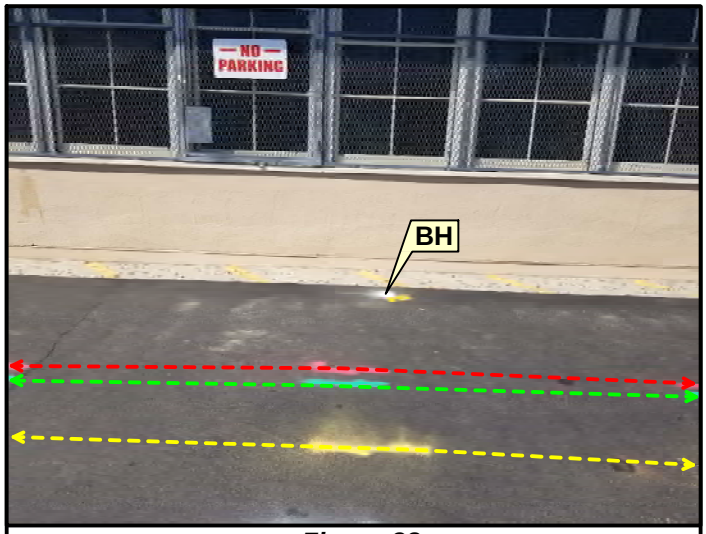

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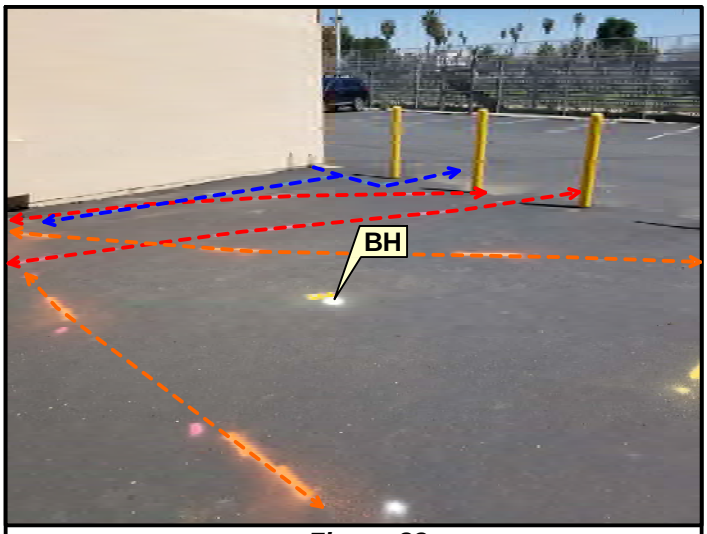

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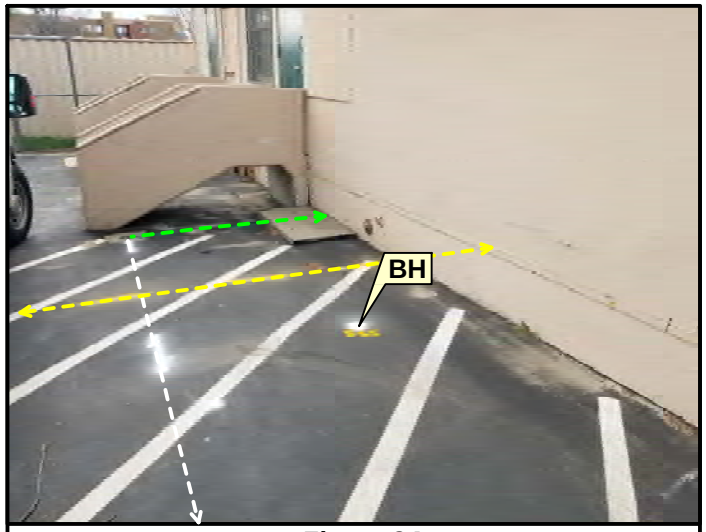

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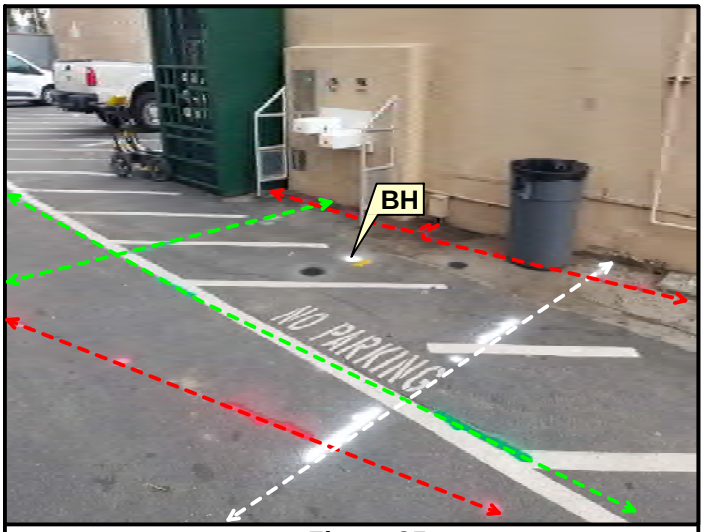

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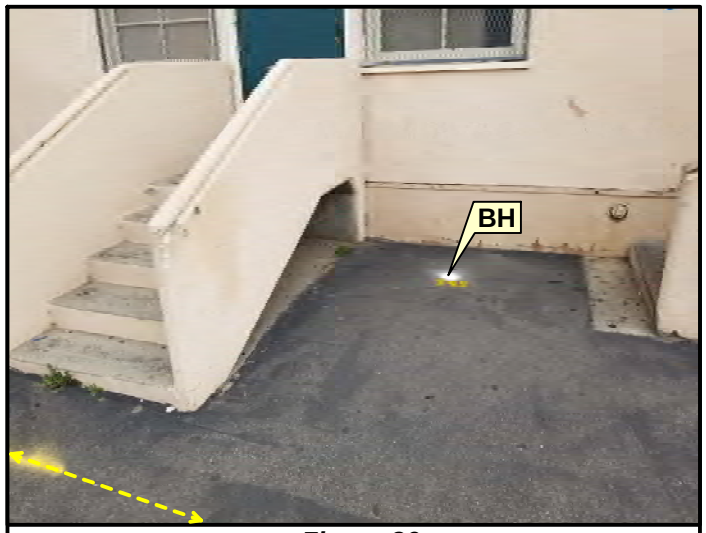

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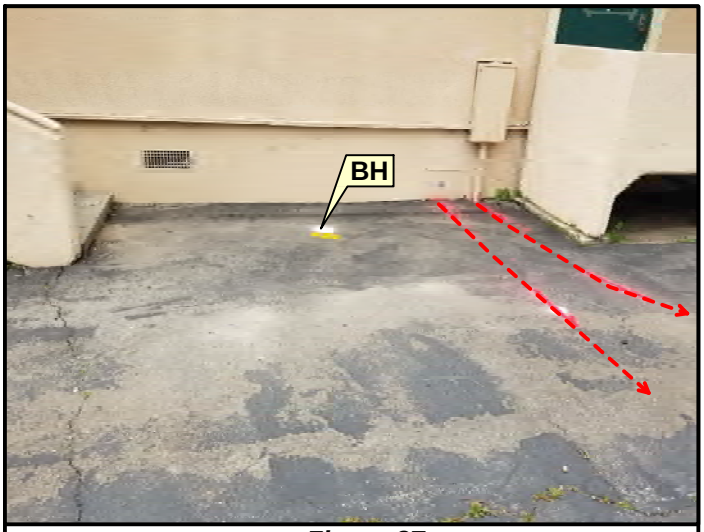

Figure 37

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Figure 38



Figure 39

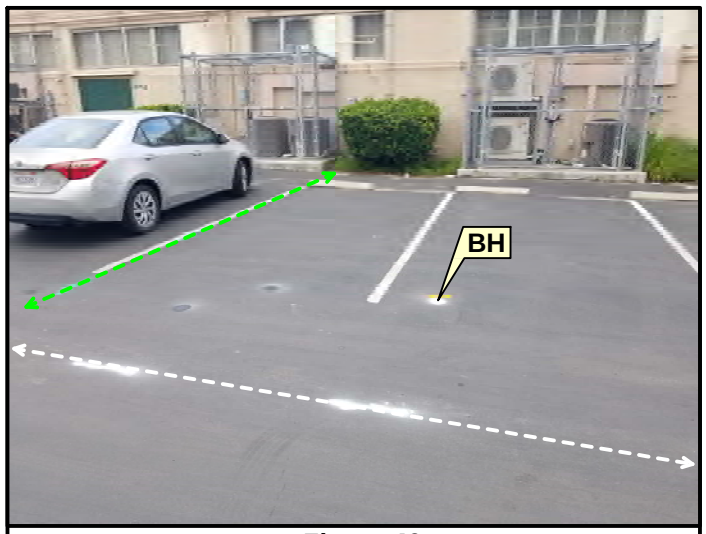
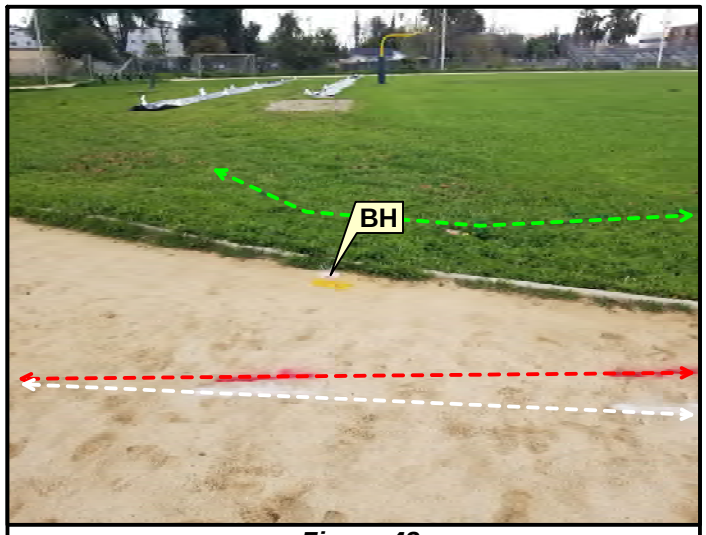


Figure 40



Figure 41



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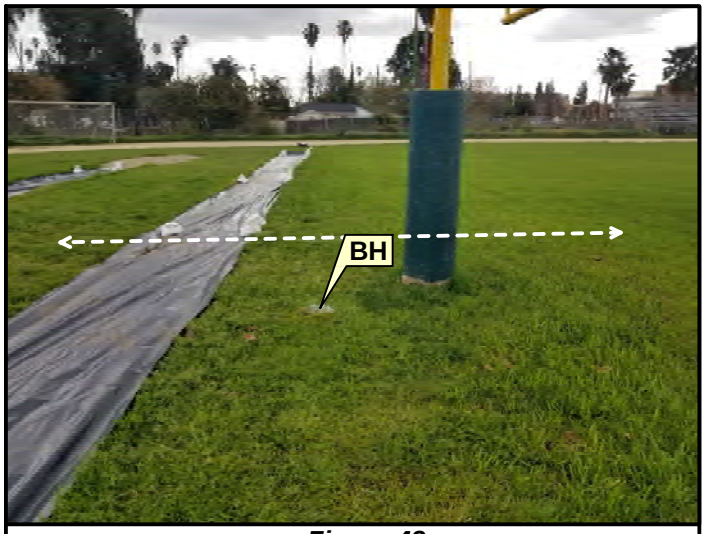

Figure 43

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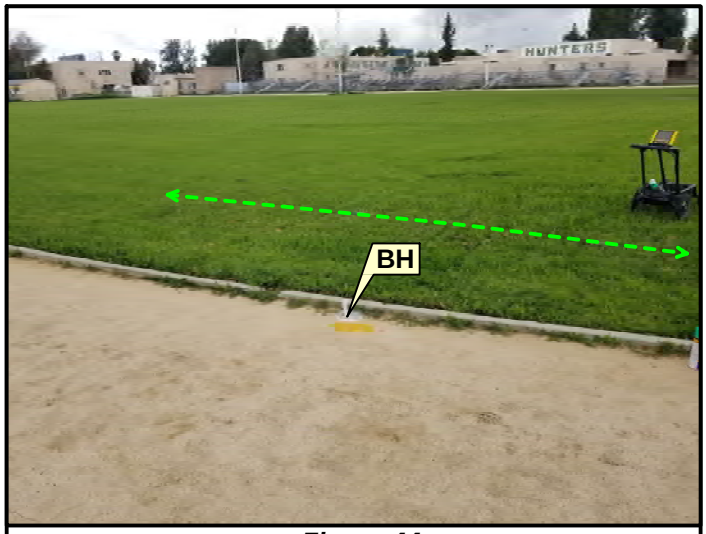

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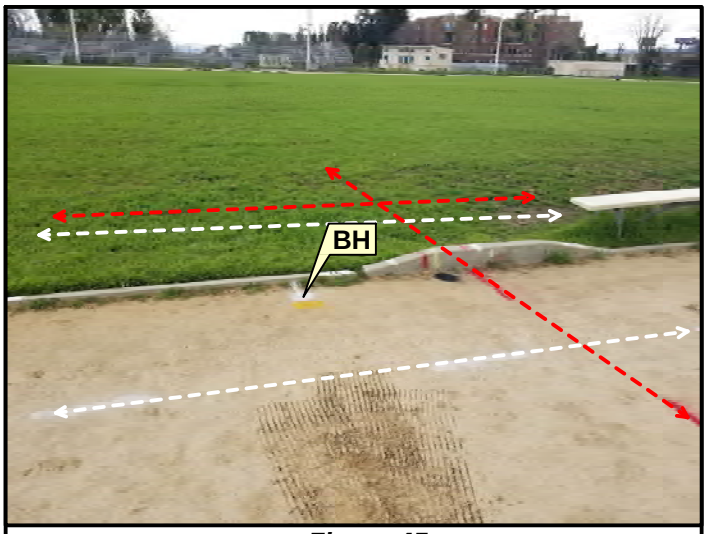

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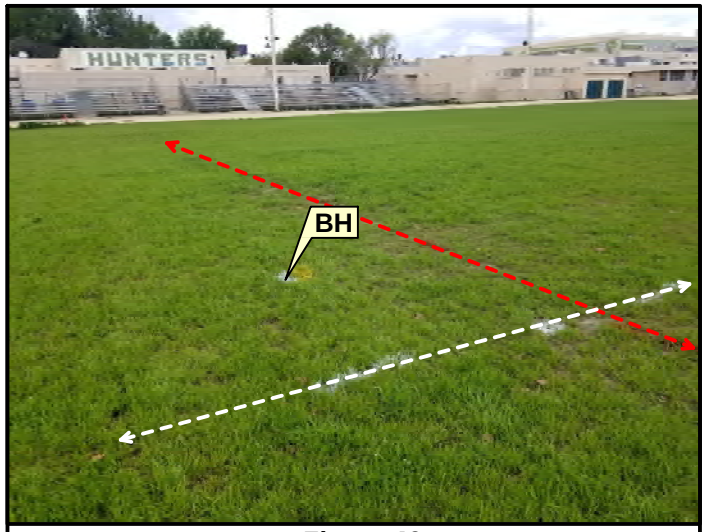

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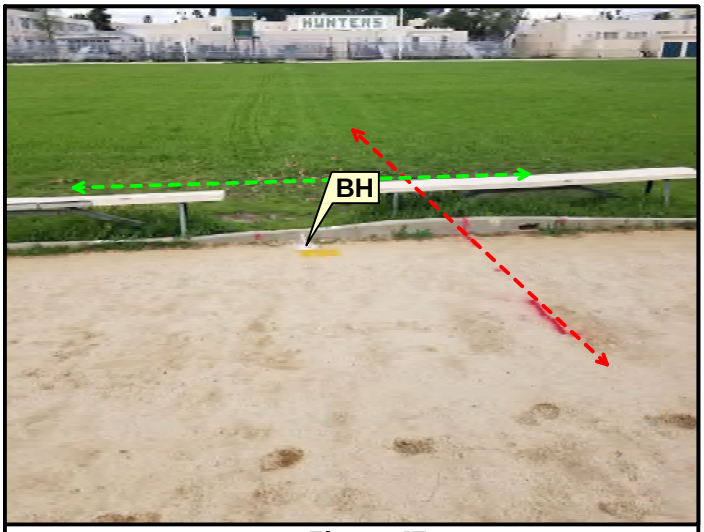

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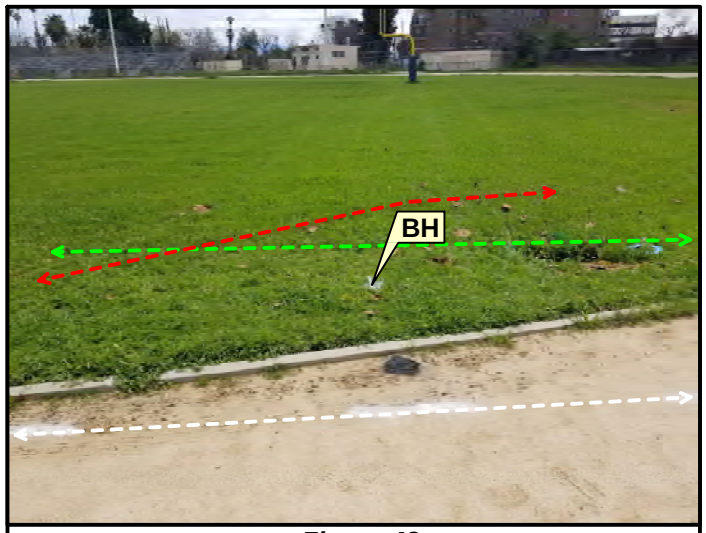

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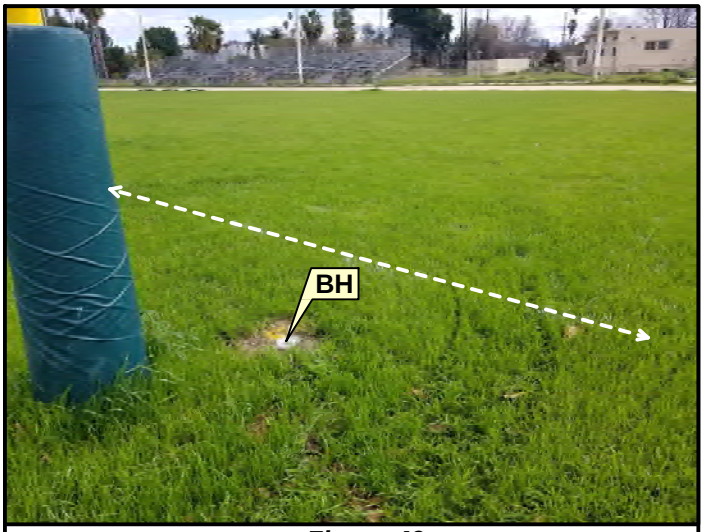


Figure 49

Sub Surface Surveys	SITE: **LAUSD Canoga Park High School** **6850 CA-27** **Canoga Park, California 91303**	TITLE: **Site Photographs**	SURVEY DATE: **March 31 & April 3, 2023**
		PREPARED FOR: **Parsons**	SSS PROJECT NO: **23-116**

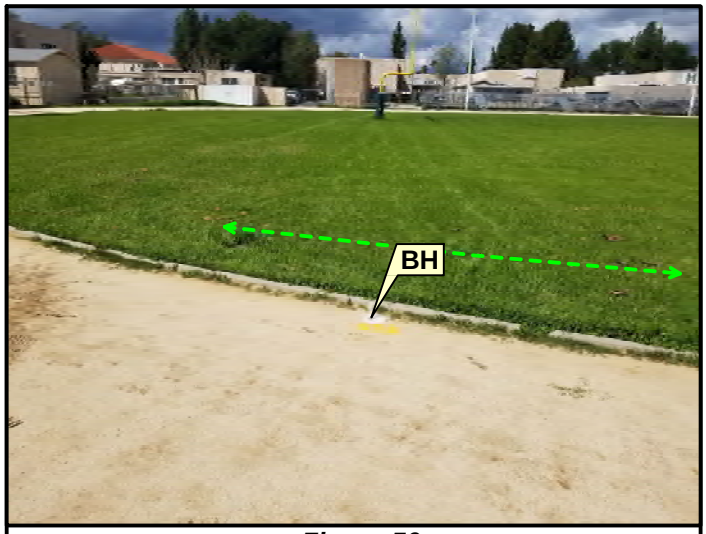


Figure 50



Figure 51



Figure 52



Figure 53

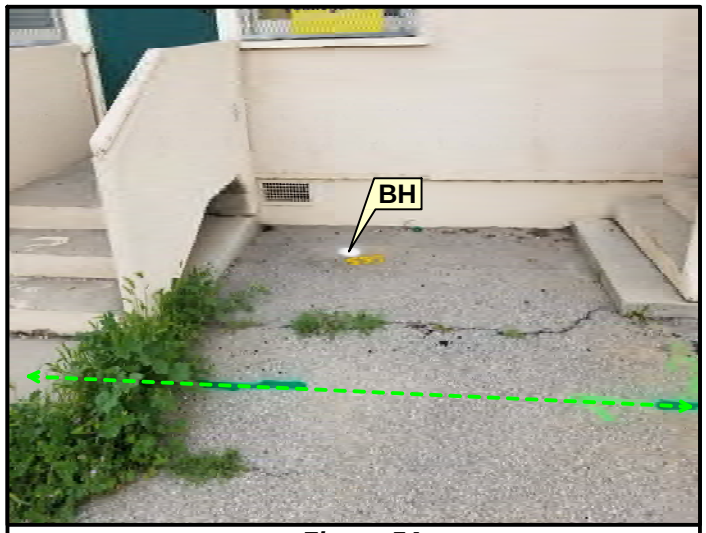


Figure 54

No Photo

Sub Surface Surveys	SITE: **LAUSD Canoga Park High School** **6850 CA-27** **Canoga Park, California 91303**	TITLE: **Site Photographs**	SURVEY DATE: **March 31 & April 3, 2023**
		PREPARED FOR: **Parsons**	SSS PROJECT NO: **23-116**

SubSurface Surveys
& Associates, Inc.
An Applied Geophysical Company

2075 Corte Del Nogal, Suite W
Carlsbad, CA 92011

Office: (760) 476-0492
Fax: (760) 476-0493

June 15, 2023

Project/Invoice No. 23-116B

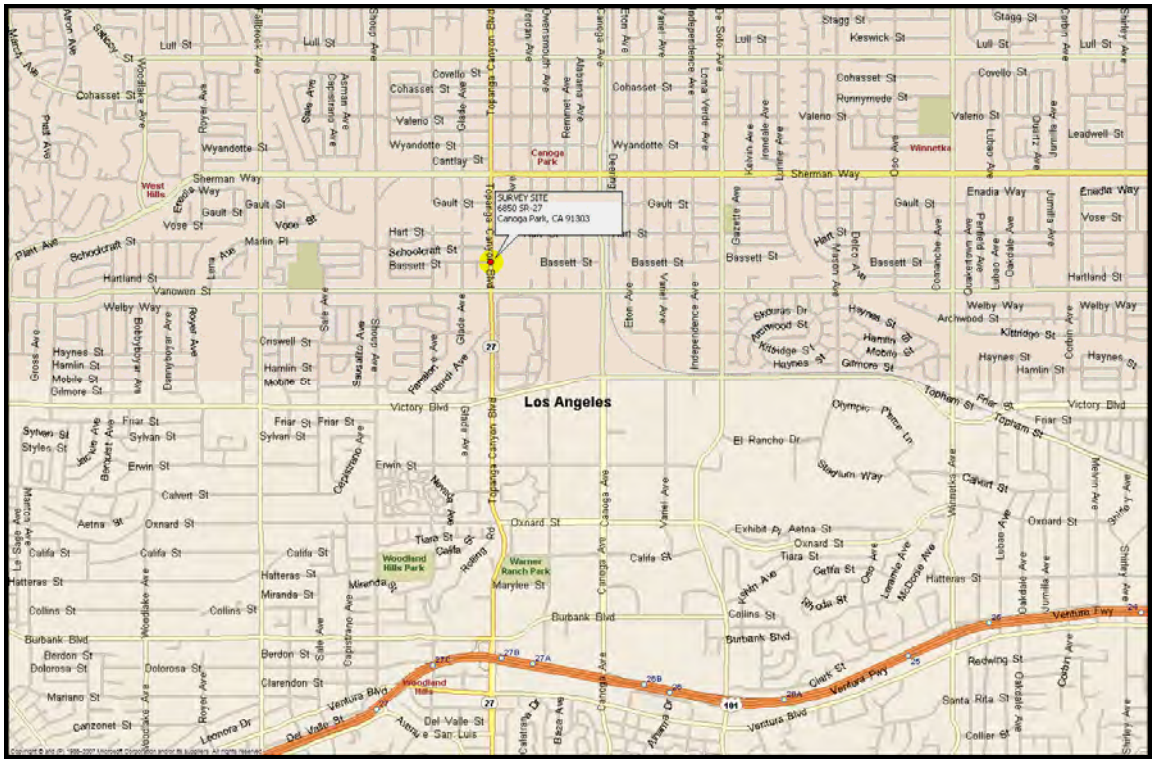
Parsons
100 West Walnut Street
Pasadena, CA 91124

Attn: **Justin King**

Re: Geophysical Investigation Report, LAUSD Canoga Park High School; 6850 CA-27, Canoga Park, California 91303

This report is to present the results of our geophysical survey carried out at LAUSD Canoga Park High School located at 6850 CA-27, Canoga Park, California 91303 (Figure 1). The survey was performed on June 12, 2023, and its purpose was to locate and identify, insofar as possible, pipes, conduits, utilities, and other underground obstructions within a ten (10) foot radius around fifty-four (54) proposed offset/step-out boreholes. This was a continuation of work done in SSS Report # 23-116 dated April 11, 2023 with the offset/step-out boreholes targeting specific previously drilled boreholes.

A combination of electromagnetic induction (EM), magnetometry, and ground penetrating radar (GPR) were brought to the field in anticipation of use. Utility locators with line tracing capabilities were also used where applicable.


SURVEY SITE
6850 SR-27
Canoga Park, CA 91303
Los Angeles
Canoga Park
Woodland Hills
Warner Ranch Park
Woodland Hills Park
Sherman Way
Victory Blvd
Burbank Blvd
Ventura Blvd
Ventura Fwy
Oxnard St
Roscoe Blvd
Topham St
Friar St
Haynes St
Welby Way
Gault St
Bassett St
Hartland St
Vose St
Enadia Way
Lull St
Stagg St
Valerio St
Wyandotte St
Cohasset St
Plummer St
Schoolcraft St
Hart St
Califa St
Collins St
Hatteras St
Calvert St
Erwin St
Sylvan St
Hamlin St
Mobile St
Gilmore St
Archwood St
Kittridge St
Haynes St
Del Valle St
Redwing St
Santa Rita St
Collier St
Clark St
Rinaldi St
Lassen St
Nordhoff St
Parthenia St
Keswick St
Runnymede St
Leadwell St
Vose St
Tiara St
Exhibit A
Aetna St
Oxnard St
Victory Blvd
El Rancho Dr
Olympic Place Ln
Stagg St
Lull St
Cohasset St
Valerio St
Wyandotte St
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Del Valle

Survey Design – The survey site was located at Canoga Park High School. The fifty four offset/step-out boreholes were positioned throughout the school with their exact locations indicated in the field by the client.

For this particular site and survey objectives, the best use of time was achieved by systematically free-traversing with the instruments while monitoring them manually, continuously, and in real-time to determine which responses were significant and due to true subsurface targets, and which were due to other non-target or above-ground features and must be ignored (an example being nearby buildings and rebar reinforced concrete). In these situations, the free-traversing method is advantageous in that it allows for immediate detection of anomalous objects and facilitates the opportunity to investigate them further despite any obstructions and without the need to first download data. Where applicable, and depending on location, the EM devices, magnetic gradiometer, and GPR were traversed systematically over the survey areas in multiple, organized directions. Other traverses were taken for detailing and confirmation where anomalous conditions were found.

In addition, the line tracers were used to impress signals onto pipes, generally through accessible risers and tracer wires when present, to delineate the lines' locations and orientations. The instruments were also used in passive mode, configured to detect 60 Hz electrical signals and other common radio-frequency signals found in active electrical and communication lines.

A Geonic's model EM61 and a Fischer TW-6 M-Scope was used for the EM sampling. A Sensors & Software Noggin Ground Penetrating Radar unit with a 250 MHz antenna produced the radar images. The magnetic gradiometer was a Schonstedt GA-52, and a Metrotech 9890 and RIDGID SR-60 SeekTech utility locator rounded out the tools applied.

Brief Description of the Geophysical Methods Applied – The EM61 instrument is a high resolution, time-domain device for detecting buried conductive objects. It consists of a powerful transmitter that generates a pulsed primary magnetic field when its coils are energized, which induces eddy currents in nearby conductive objects. The decay of the eddy currents, following the input pulse, is measured by the coils, which in turn serve as receiver coils. The decay rate is measured for two coils, mounted concentrically, one above the other. By making the measurements at a relatively long time interval (measured in milliseconds) after termination of the primary pulse, the response is nearly independent of the electrical conductivity of the ground. Thus, the instrument is a super-sensitive metal detector. Due to its unique coil arrangement, the response curve is a single well-defined positive peak directly over a buried conductive object. This facilitates quick and accurate location of targets.

The M-Scope device energizes the ground by producing an alternating primary magnetic field with AC current in a transmitting coil. If conducting materials are within the area of influence of the primary field, AC eddy currents are induced to flow in the conductors. A receiving coil senses the secondary magnetic field produced by these eddy currents, and outputs the response as anomalous conditions. The strength of the secondary field is a function of the conductivity of the object, say a pipe, tank or cluster of drums, its size, and its depth and position relative to the instrument's two coils. Conductive objects, to a depth of approximately 7 feet below ground surface (bgs) for the M-Scope are sensed. The device is also somewhat focused; that is, it is more sensitive to conductors below the instrument than they are to conductors off to the side.

The GPR instrument beams energy into the ground from its transducer/antenna, in the form of

electromagnetic waves. A portion of this energy is reflected back to the antenna at a boundary in the subsurface across which there is an electrical contrast. The instrument produces a continuous record of the reflected energy as the antenna is traversed across the ground surface. The greater the electrical contrast, the higher the amplitude of the returned energy. The radar wave travels at a velocity unique to the material properties of the ground being investigated, and when these velocities are known, the two-way travel times can be converted to depth. The depth of penetration and image resolution produced are a function of ground electrical conductivity and dielectric constant.

The magnetic gradiometer has two flux gate magnetic fixed sensors that are passed closely to and over the ground. When not in close proximity to a magnetic object, that is, only in the earth's field, the instrument emits a sound signal at a low frequency. When the instrument passes over a buried iron or steel object, so that locally there is a high magnetic gradient, the frequency of the emitted sound increases. The frequency is a function of the gradient between the two sensors.

The line locator is used to passively detect energized high voltage electric lines and electrical conduit (50-60 Hz), VLF signals (14-22 kHz), as well as to actively trace other utilities. Where risers are present, the utility locator transmitter can be connected directly to the object, and a signal (9.8-82 kHz) is sent traveling along the conductor, pipe, conduit, etc. In the absence of a riser, the transmitter can be used to impress an input signal on the utility by induction. In either case, the receiver unit is tuned to the input signal, and is used to actively trace the signal along the pipe's surface projection.

Interpretation and Conclusions - The interpretation took place in real time as the survey progressed, and accordingly, the complete findings of our investigation were marked on the ground cover at the site using spray chalk, were reported directly to the client, and are further documented with site photographs of the proposed boreholes (Figures 2-18).

Items detected in the vicinity of the offset/step-out boreholes are highlighted in the accompanying photographs using coordinated standard colors including red for electric, orange for communication, blue for water, yellow for gas, green for sewer and drain, and white for pipes of unknown utility type. Please review the site photographs for the locations and orientations of all items found within the vicinity of the offset/step-out boreholes.

At the conclusion of the survey, all offset/step-out boreholes were either clear as where originally positioned by the client or were moved slightly to provide adequate clearance from detected obstructions. In their final locations, each location was marked in white with a yellow "SSS" to indicate that they had been checked by company personnel.

Limitations and Further Recommendations - It should be understood that limitations inherent in geophysical instruments and/or surveying techniques exist at all sites, and nearly all sites exhibit conditions under which such might not perform optimally. Consequently, the detection of buried objects in all circumstances **cannot be guaranteed**. Such limitations are numerous and include, but are not limited to, rebar-reinforced ground cover, abrupt changes in ground cover type, above-ground obstacles preventing full traverses or traverses in one direction only, above-ground conductive objects interfering with instrument signal, nearby powerlines or EM transmitters, highly conductive background soil conditions, limited GPR penetration, non-metallic targets, shallower or larger objects shielding deeper or smaller targets, tracing signal jumping from one line to another, and inaccessible risers, cleanouts, valve boxes, and manholes. If one or more geophysical instrument is rendered ineffective and cannot be utilized, the quality of the survey

can be somewhat degraded.

For the above reasons, and in the interest of maximum safety, we encourage our clients to take advantage of Underground Service Alert (USA), Dig Alert, or other similar services, when possible. Furthermore, we recommend hand-auguring and the use of a drilling method known as air knifing or vacuum extraction, when feasible or if applicable to this project. These methods may significantly limit damage to underground pipes, conduits, and utilities that might not have been detectable during the course of this survey. Please bear in mind, that geophysical surveying is only one of several levels of protection that is available to our clients.

SubSurface Surveys may include maps in some reports. While they are an accurate general representation of the site and our findings, they are not of engineering quality (i.e., measured and mapped by a licensed land surveyor).

SubSurface Surveys and Associates makes no guarantee either expressed or implied regarding the accuracy of the findings and interpretations present. And, in no event will SubSurface Surveys and Associates be liable for any direct, indirect, special, incidental, or consequential damages resulting from interpretations and opinions presented herewith.

All data generated on this project are in confidential file in this office, and are available for review by authorized persons at any time. The opportunity to participate in this investigation is very much appreciated. Please call, if there are questions.

Dustin Renck
Staff Geophysicist, SubSurface Surveys

Travis Crosby
CA State Geophysics Registration GP1044
Senior Geophysicist, SubSurface Surveys

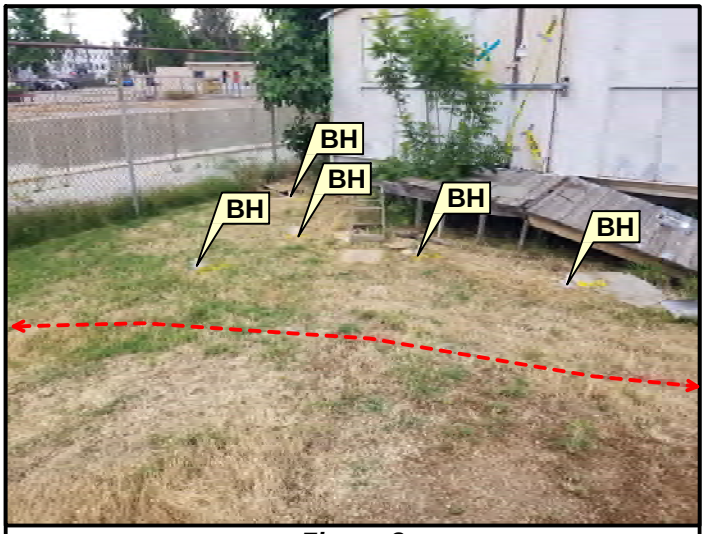
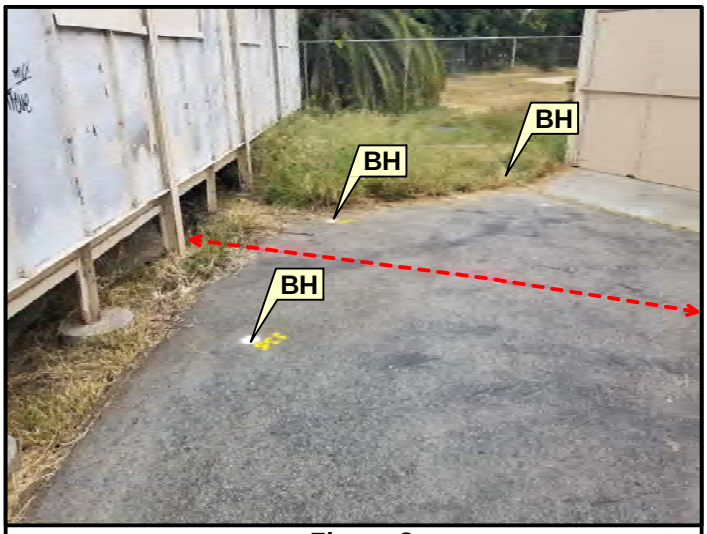


Figure 2



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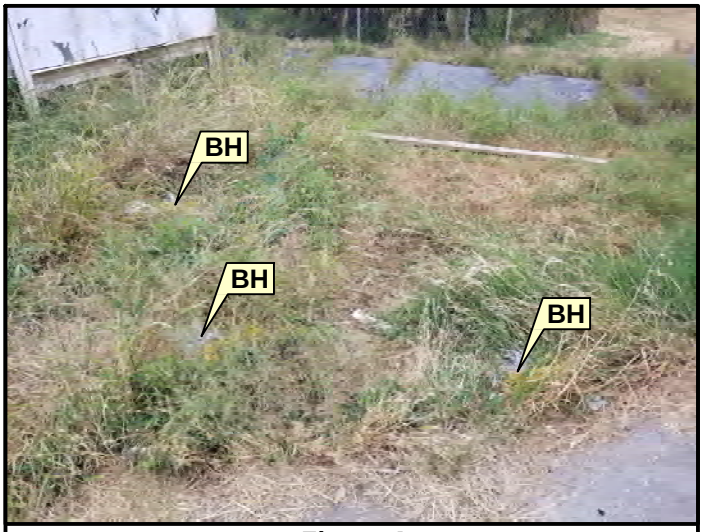

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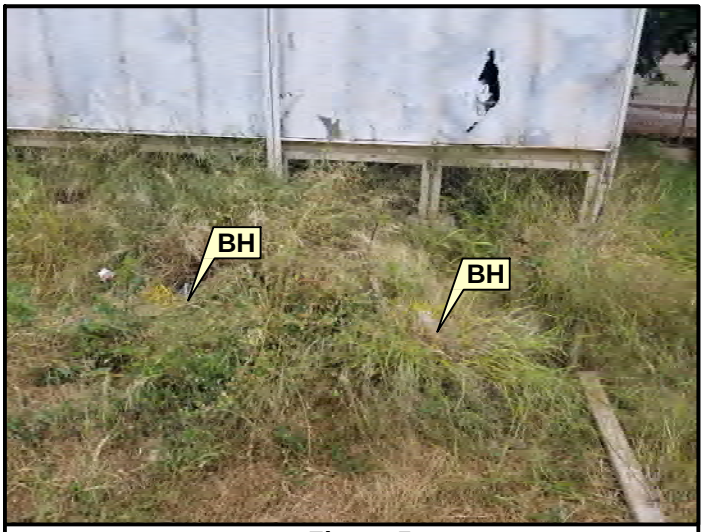

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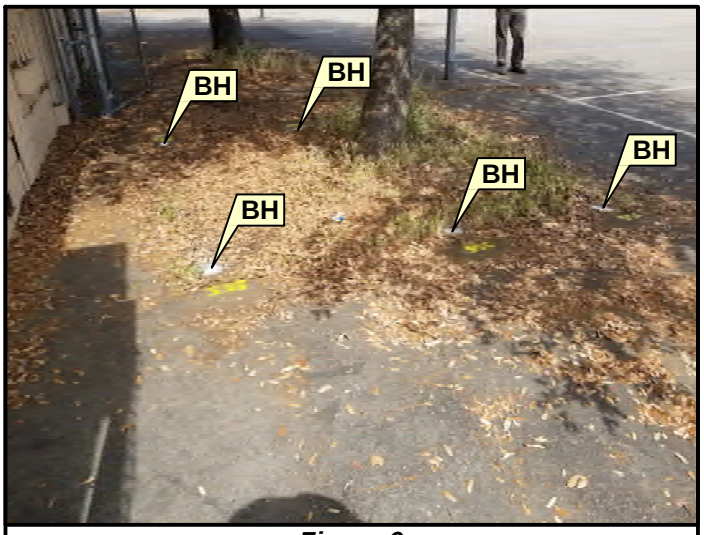

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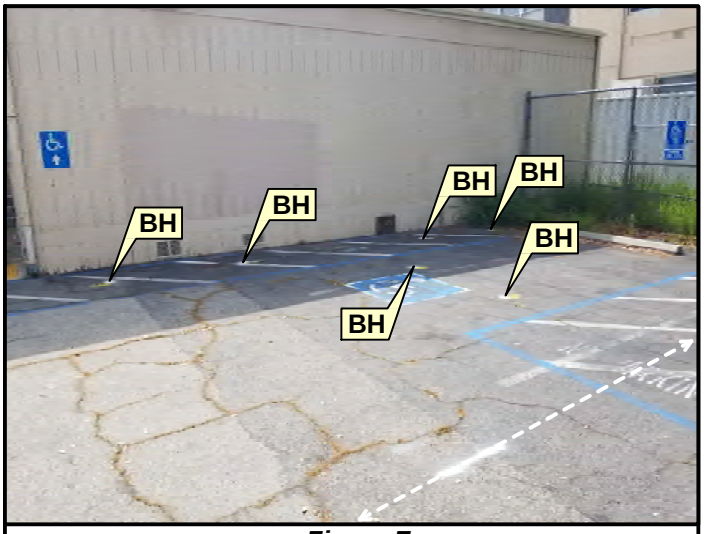
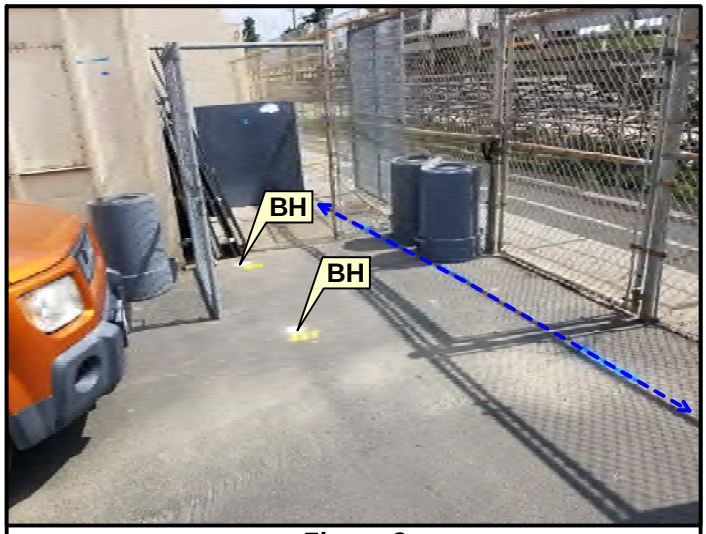


Figure 7

Sub Surface Surveys	SITE: **LAUSD Canoga Park High School** **6850 CA-27** **Canoga Park, California 91303**	TITLE: **Site Photographs**	SURVEY DATE: **June 12, 2023**
		PREPARED FOR: **Parsons**	SSS PROJECT NO: **23-116B**



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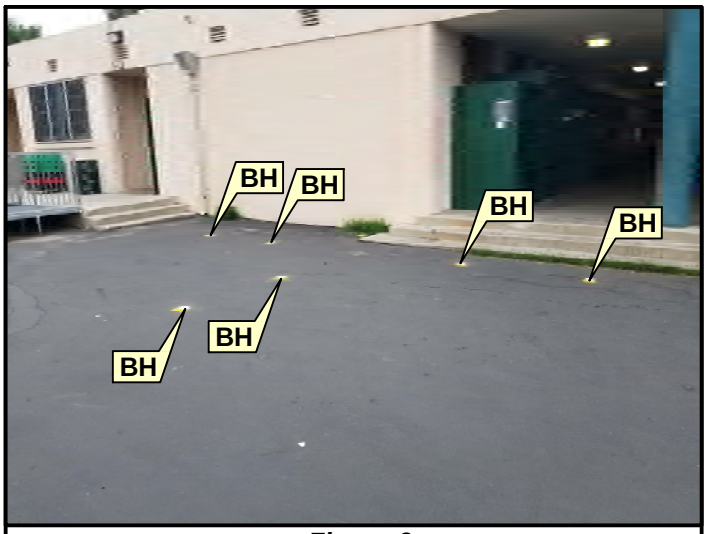
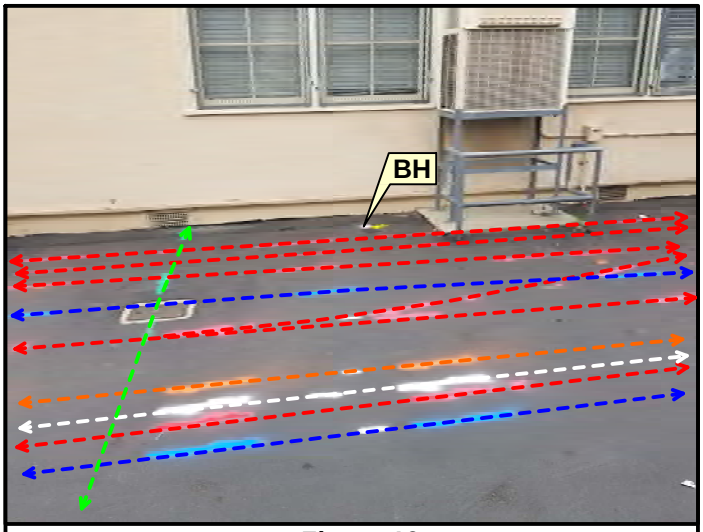


Figure 9



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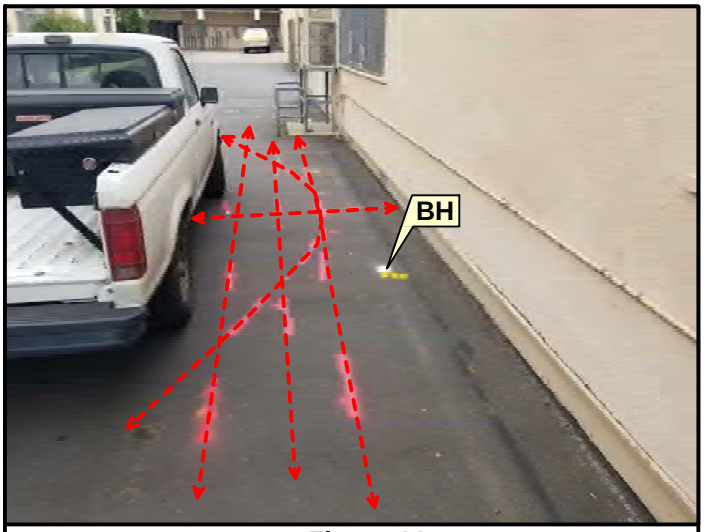

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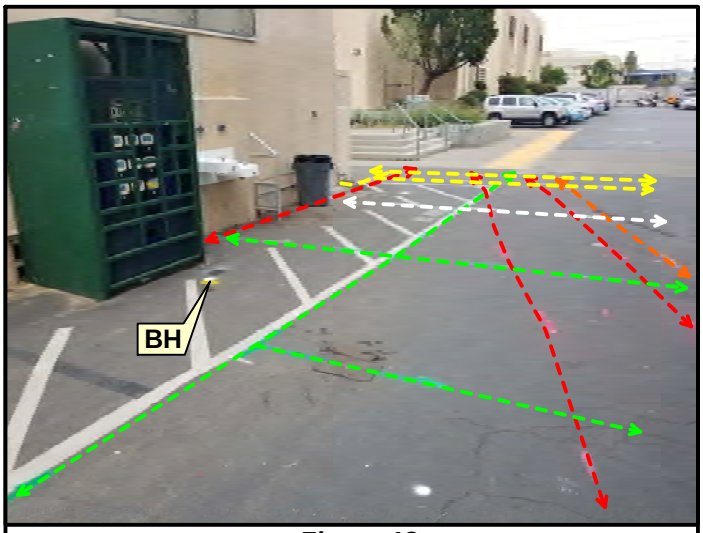

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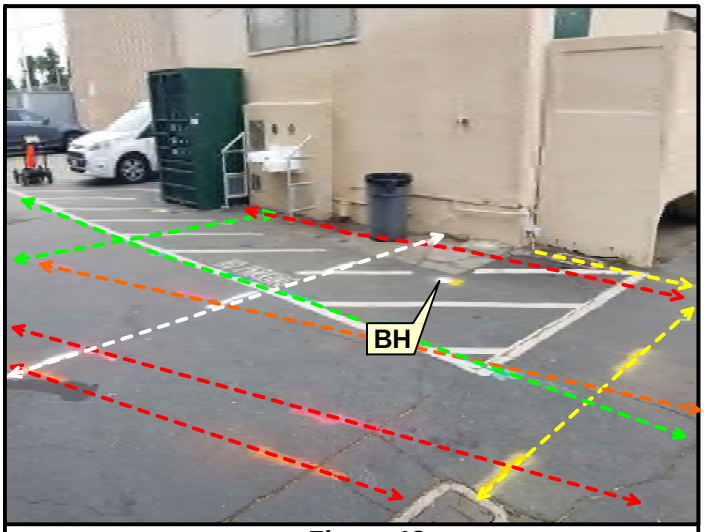
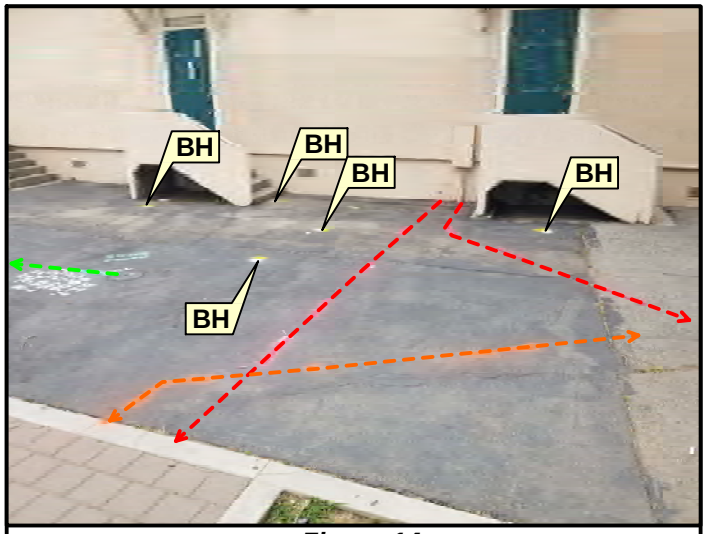


Figure 13

Sub Surface Surveys	SITE: **LAUSD Canoga Park High School** **6850 CA-27** **Canoga Park, California 91303**	TITLE: **Site Photographs**	SURVEY DATE: **June 12, 2023**
		PREPARED FOR: **Parsons**	SSS PROJECT NO: **23-116B**



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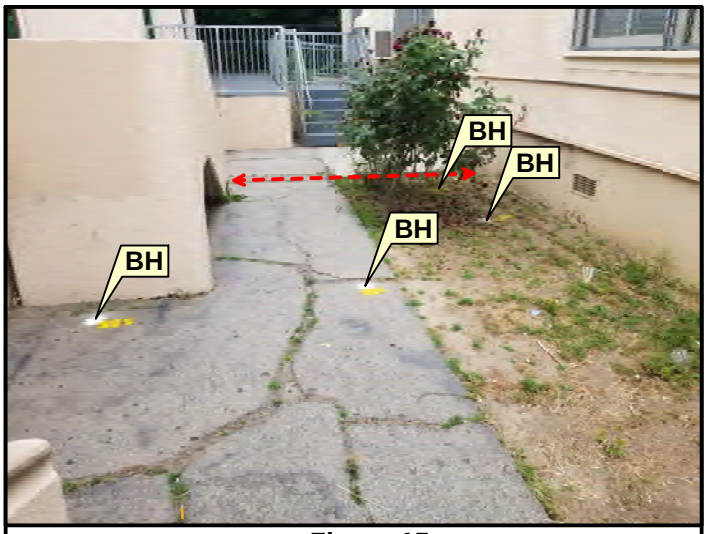
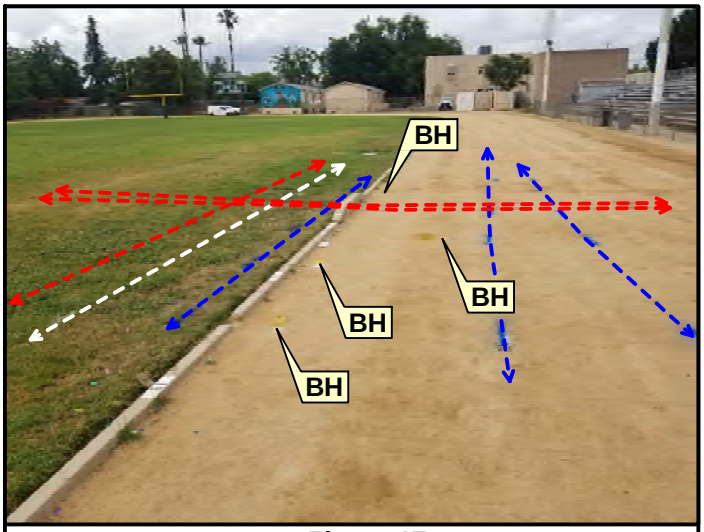


Figure 15



Figure 16



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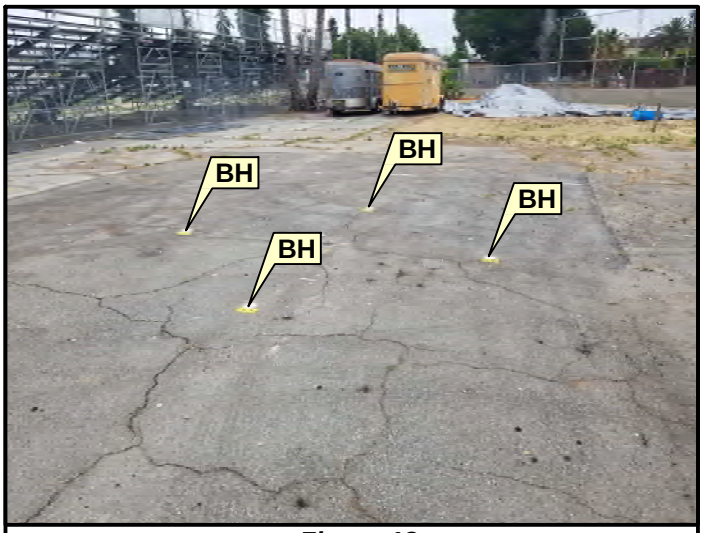

Figure 18

No Photo

Sub Surface Surveys	SITE: **LAUSD Canoga Park High School** **6850 CA-27** **Canoga Park, California 91303**	TITLE: **Site Photographs**	SURVEY DATE: **June 12, 2023**
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SubSurface Surveys
& Associates, Inc.
An Applied Geophysical Company

2075 Corte Del Nogal, Suite W
Carlsbad, CA 92011

Office: (760) 476-0492
Fax: (760) 476-0493

July 14, 2023

Project/Invoice No. 23-116C

Parsons
100 West Walnut Street
Pasadena, CA 91124

Attn: **Justin King**

Re: Geophysical Investigation Report, LAUSD Canoga Park High School; 6850 CA-27, Canoga Park, California 91303

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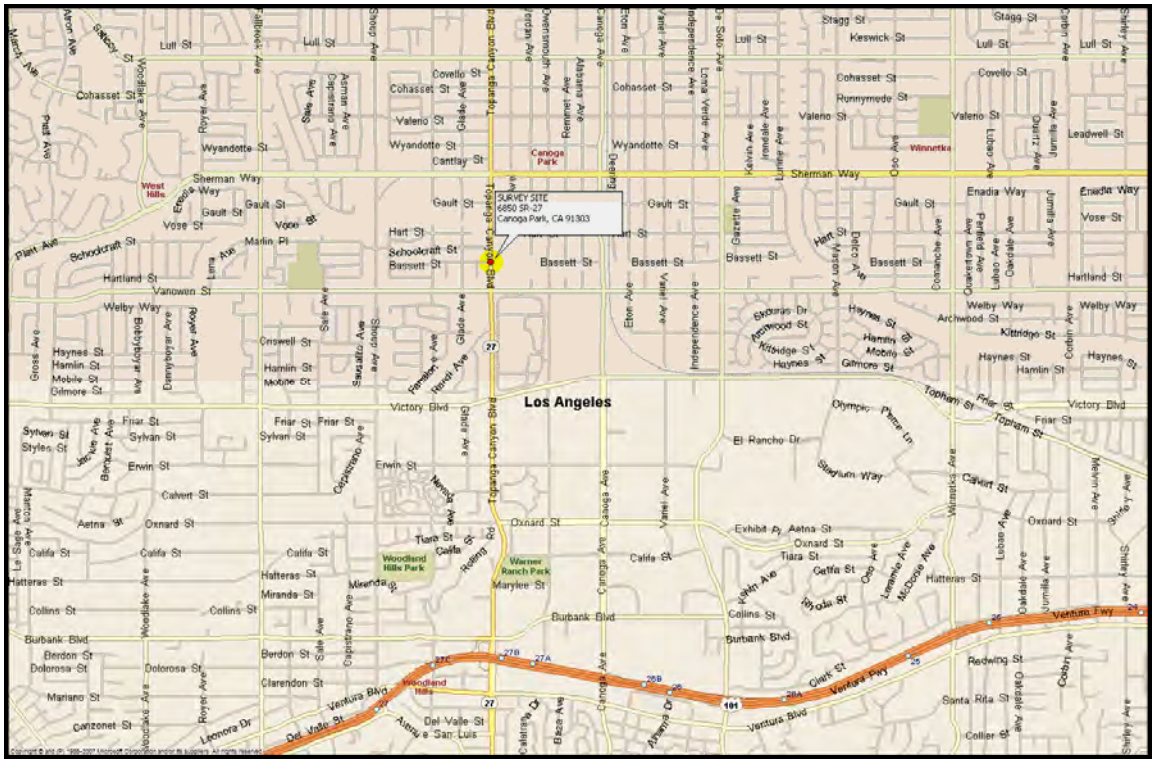
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Calvert St
Oxnard St
Califa St
Hatteras St
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Stagg St
Keswick St
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Covello St
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Marlin Pl
Lemona Ave
Plant Ave
Gross Ave
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Leonora Dr
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Olympic Place Ln
Aetna St
Burdon St
Mariano St
Cenzonet St
Del Valle San Luis
Aurelia Dr
Alhama Dr
Baza Ave
Calatrava Dr
Winnetka
Lubao Ave
Oakdale Ave
Dumila Ave
Cobrin Ave
Shirley Ave
Corbin Ave
Tampa Ave
Reseda Blvd
Canoga Ave
Valley Circle Blvd
Topanga Canyon Blvd
Independence Ave
Glade Ave
Hayvenhurst Ave
Balboa Blvd
Woodley Ave
Haskell Ave
Louise Ave
Lindley Ave
Zelzah Ave
Reseda Blvd
Variel Ave
Eton Ave
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Gazette Ave
Delco Ave
Darby Ave
Farralone Ave
Remmet Ave
Owensmouth Ave
Shoup Ave
Fallbrook Ave
Winnetka Ave
Jumilla Ave
Lubao Ave
Oso Ave
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Rolling Rd
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Benbow Ave
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Sylvan St
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Victory Blvd
Haynes St
Hamlin St
Mobile St
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electromagnetic waves. A portion of this energy is reflected back to the antenna at a boundary in the subsurface across which there is an electrical contrast. The instrument produces a continuous record of the reflected energy as the antenna is traversed across the ground surface. The greater the electrical contrast, the higher the amplitude of the returned energy. The radar wave travels at a velocity unique to the material properties of the ground being investigated, and when these velocities are known, the two-way travel times can be converted to depth. The depth of penetration and image resolution produced are a function of ground electrical conductivity and dielectric constant.

The magnetic gradiometer has two flux gate magnetic fixed sensors that are passed closely to and over the ground. When not in close proximity to a magnetic object, that is, only in the earth's field, the instrument emits a sound signal at a low frequency. When the instrument passes over a buried iron or steel object, so that locally there is a high magnetic gradient, the frequency of the emitted sound increases. The frequency is a function of the gradient between the two sensors.

The line locator is used to passively detect energized high voltage electric lines and electrical conduit (50-60 Hz), VLF signals (14-22 kHz), as well as to actively trace other utilities. Where risers are present, the utility locator transmitter can be connected directly to the object, and a signal (9.8-82 kHz) is sent traveling along the conductor, pipe, conduit, etc. In the absence of a riser, the transmitter can be used to impress an input signal on the utility by induction. In either case, the receiver unit is tuned to the input signal, and is used to actively trace the signal along the pipe's surface projection.

Interpretation and Conclusions - The interpretation took place in real time as the survey progressed, and accordingly, the complete findings of our investigation were marked on the ground cover at the site using spray chalk, were reported directly to the client, and are further documented with site photographs of the proposed boreholes (Figures 2-12).

Items detected in the vicinity of the offset/step-out boreholes are highlighted in the accompanying photographs using coordinated standard colors including red for electric, orange for communication, blue for water, yellow for gas, green for sewer and drain, and white for pipes of unknown utility type. Please review the site photographs for the locations and orientations of all items found within the vicinity of the offset/step-out boreholes.

At the conclusion of the survey, all offset/step-out boreholes were either clear as where originally positioned by the client or were moved slightly to provide adequate clearance from detected obstructions. In their final locations, each location was marked in white with a yellow "SSS" to indicate that they had been checked by company personnel.

Limitations and Further Recommendations - It should be understood that limitations inherent in geophysical instruments and/or surveying techniques exist at all sites, and nearly all sites exhibit conditions under which such might not perform optimally. Consequently, the detection of buried objects in all circumstances **cannot be guaranteed**. Such limitations are numerous and include, but are not limited to, rebar-reinforced ground cover, abrupt changes in ground cover type, above-ground obstacles preventing full traverses or traverses in one direction only, above-ground conductive objects interfering with instrument signal, nearby powerlines or EM transmitters, highly conductive background soil conditions, limited GPR penetration, non-metallic targets, shallower or larger objects shielding deeper or smaller targets, tracing signal jumping from one line to another, and inaccessible risers, cleanouts, valve boxes, and manholes. If one or more geophysical instrument is rendered ineffective and cannot be utilized, the quality of the survey

can be somewhat degraded.

For the above reasons, and in the interest of maximum safety, we encourage our clients to take advantage of Underground Service Alert (USA), Dig Alert, or other similar services, when possible. Furthermore, we recommend hand-auguring and the use of a drilling method known as air knifing or vacuum extraction, when feasible or if applicable to this project. These methods may significantly limit damage to underground pipes, conduits, and utilities that might not have been detectable during the course of this survey. Please bear in mind, that geophysical surveying is only one of several levels of protection that is available to our clients.

SubSurface Surveys may include maps in some reports. While they are an accurate general representation of the site and our findings, they are not of engineering quality (i.e., measured and mapped by a licensed land surveyor).

SubSurface Surveys and Associates makes no guarantee either expressed or implied regarding the accuracy of the findings and interpretations present. And, in no event will SubSurface Surveys and Associates be liable for any direct, indirect, special, incidental, or consequential damages resulting from interpretations and opinions presented herewith.

All data generated on this project are in confidential file in this office, and are available for review by authorized persons at any time. The opportunity to participate in this investigation is very much appreciated. Please call, if there are questions.

Dustin Renck
Staff Geophysicist, SubSurface Surveys

Travis Crosby
CA State Geophysics Registration GP1044
Senior Geophysicist, SubSurface Surveys

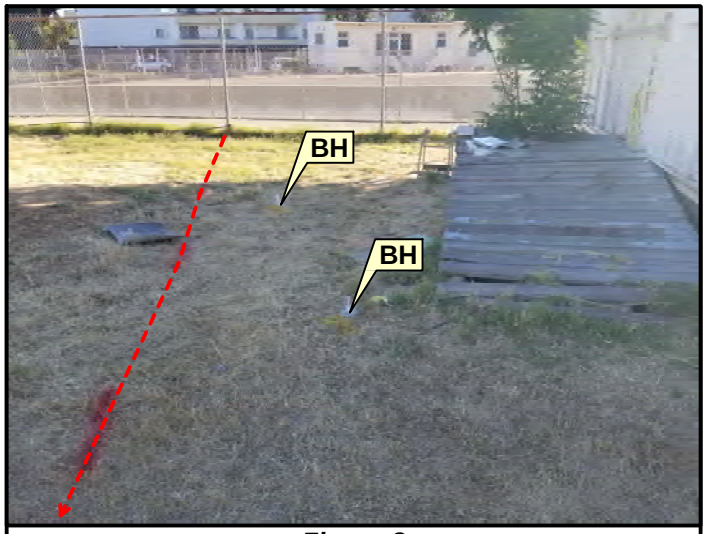


Figure 2

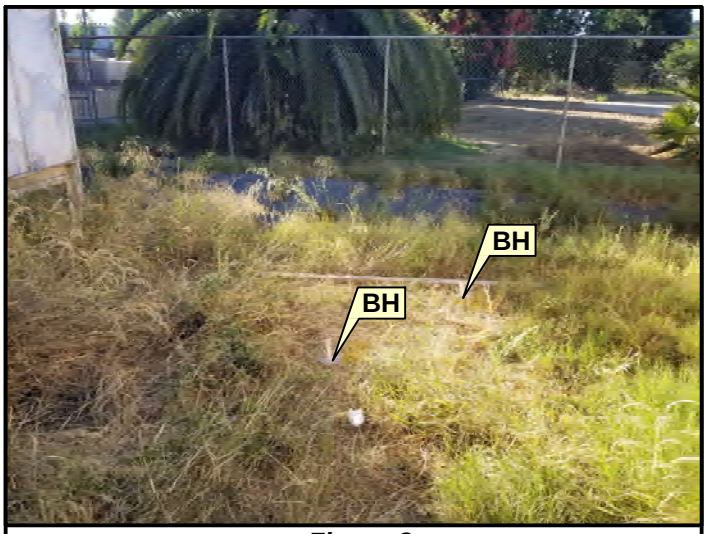


Figure 3

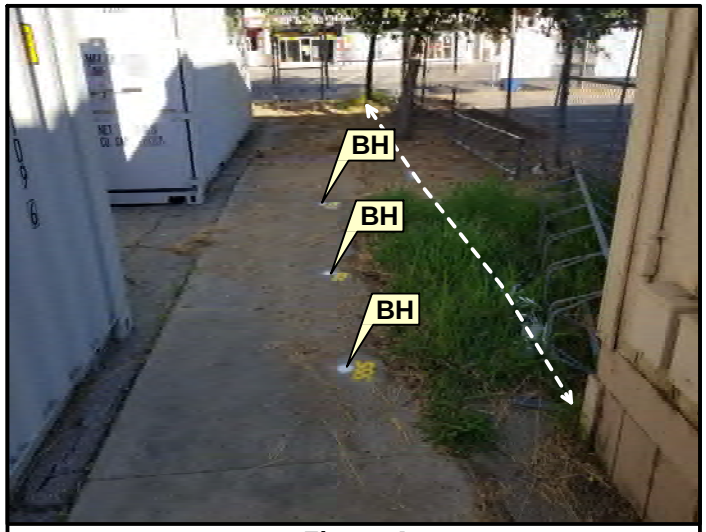


Figure 4



Figure 5

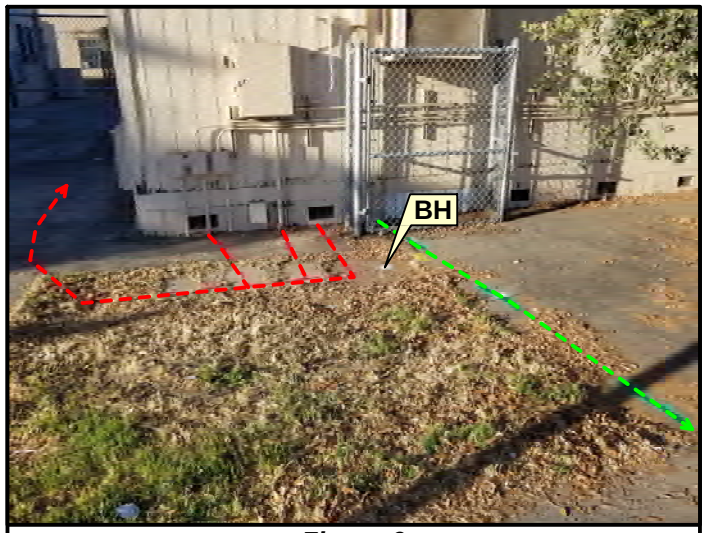


Figure 6

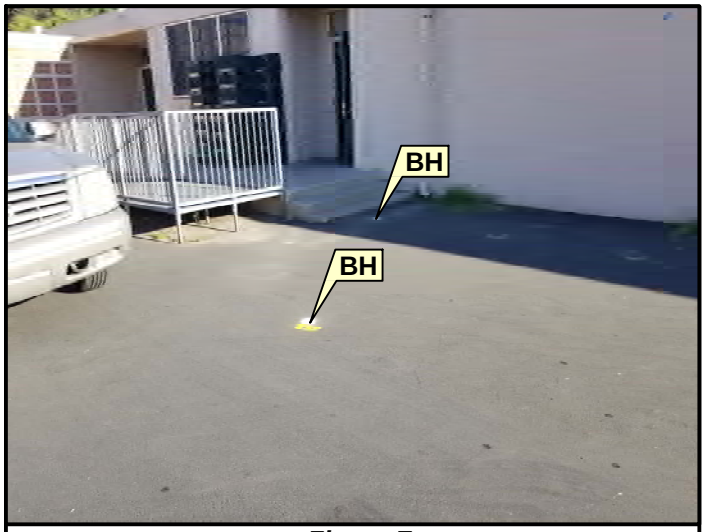


Figure 7

Sub Surface Surveys	SITE: **LAUSD Canoga Park High School** **6850 CA-27** **Canoga Park, California 91303**	TITLE: **Site Photographs**	SURVEY DATE: **July 14, 2023**
		PREPARED FOR: **Parsons**	SSS PROJECT NO: **23-116C**

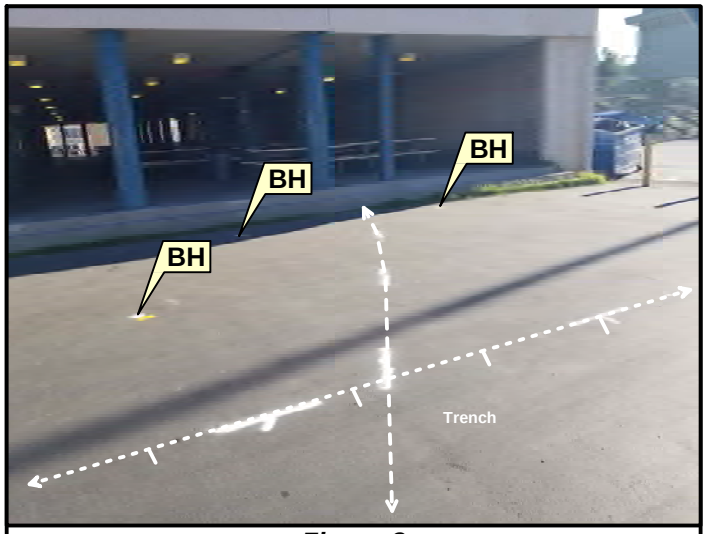


Figure 8

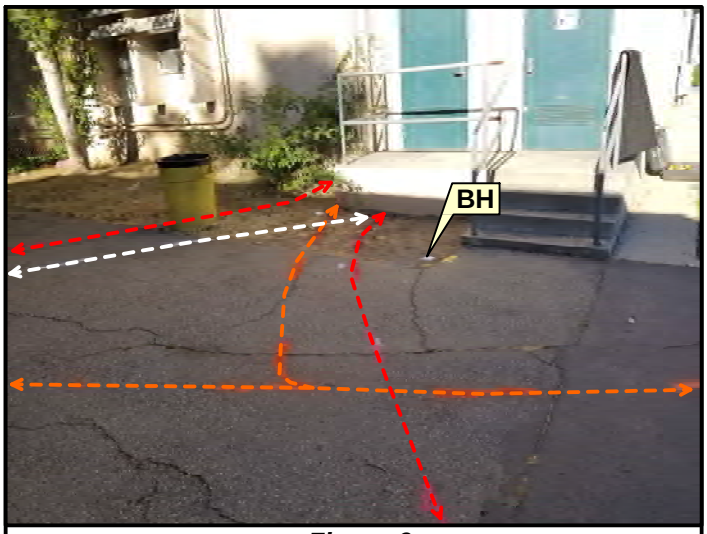


Figure 9

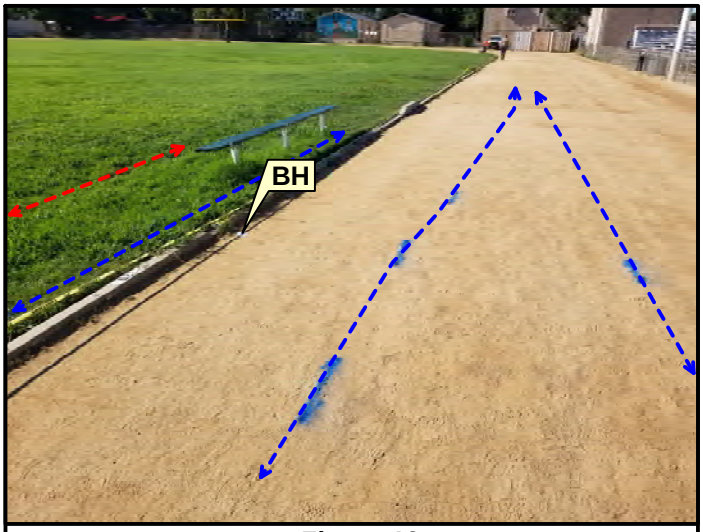


Figure 10

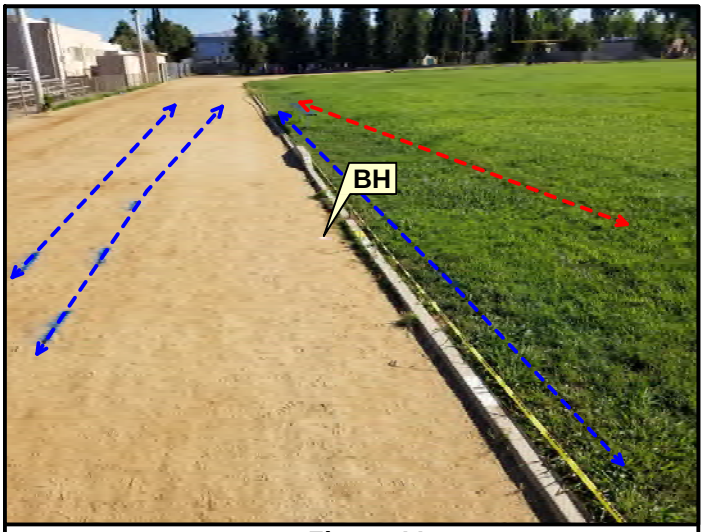


Figure 11

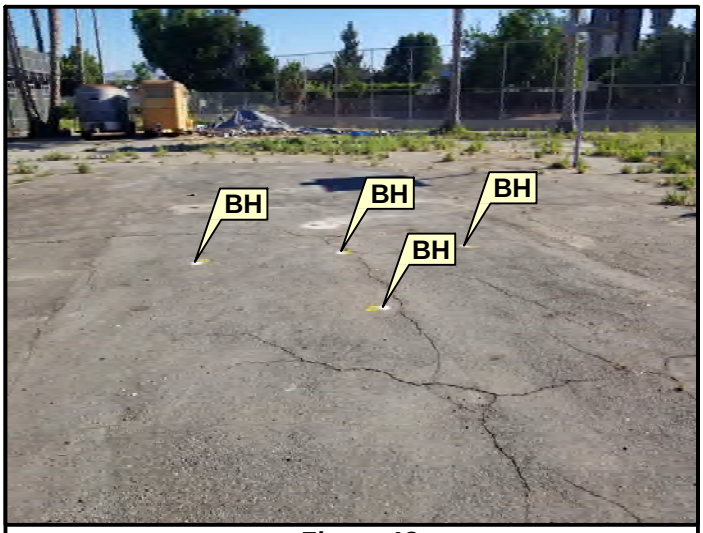


Figure 12

No Photo

Sub Surface Surveys	SITE: **LAUSD Canoga Park High School** **6850 CA-27** **Canoga Park, California 91303**	TITLE: **Site Photographs**	SURVEY DATE: **July 14, 2023**
		PREPARED FOR: **Parsons**	SSS PROJECT NO: **23-116C**

APPENDIX D

PARSONS

100 West Walnut Street, Pasadena, CA 91124
Direct: +1 626.440.2000 / Fax: +1 626.440.2630 / parsons.com

March 30, 2023

Mr. Eric Longenecker
Site Assessment Project Manager
Los Angeles Unified School District
Office of Environmental Health & Safety
333 South Beaudry, 21st Floor (21-224-01)
Los Angeles, CA 90017

Re: Asbestos Containing Construction Material (ACCM) Coring Activities
Canoga Park High School
Los Angeles, California

Dear Mr. Longenecker,

The following is a letter workplan for the coring and management of asphalt at the subject Site that may contain asbestos containing construction material (ACCM). The assumption is that these materials do contain ACCM; therefore, our workplan addresses the requirements for the handling and management of the cores that will be generated during asphalt coring activities. The work will be completed by asbestos trained staff from American Integrated Services (AIS) under the direction of Panacea Environmental, an asbestos abatement certified firm, and Parsons.

Scope of Work:

Removal of ACCM Asphalt via 4-inch coring machine equipped using amended water (wet method) to eliminate potential asbestos emissions in approximately 32 locations within the boundaries of the Canoga Park High School in support of future construction at the Site.

Work to be done as in general compliance with LAUSD, 02 8213 specifications.

1.0 NOTIFICATIONS

A. No notifications are being made other than to OEHS for project purposes.

2.0 LICENSES AND CERTIFICATIONS

A. All work will be done by Asbestos Certified labors and Supervisor as in general compliance with AHERA (40CFR part 763 subpart E) including oversight by a Panacea Environmental Certified Asbestos Consultant.

3.0 WORK AREA PREPARATION

A. AIS' personnel will contain approximately 20 feet around the affected work area using cones and caution tape with Danger Asbestos signs per CAL-OSHA regulations that will be installed around the work areas where the potential for

ACCM is present. This containment will be setup at each location prior to implementation of asphalt coring activities.

B. Electrical power will be needed to power the asphalt coring machine. This power will be provided by AIS via portable generator.

C. AIS will protect all non -movable items inside the affected work area.

D. AIS will provide and maintain appropriate fire extinguisher at each work area, as per L.A. City Fire Department Rule No. 68.

4.0 CONTAINMENT LOCATIONS

A. 32 exterior asphalt areas including parking lots, paved walking areas and cart paths as shown in Figure 1.

5.0 DECONTAMINATION STATION

A. AIS/Panacea will construct one (2) stage decontamination station at the entrance/exit of the work area to prevent the potential for transfer of contamination to other locations.

6.0 DECONTAMINATION SYSTEM FOR EQUIPMENT

A. AIS/Panacea personnel will set up a decontamination area for equipment, located at the entrance of each phase- work area, consisting of demarcation of the area by physical signs, and 10 mil polyethylene sheeting on the floor, all equipment used will be accessing the area through this decontamination area, enough water and rags will be provided to decontaminate the equipment.

7.0 EMPLOYEE PERSONAL PROTECTIVE EQUIPMENT

A. Respiratory Protection: Where respirators are required, these will be provided for protection from particulate contaminants as required by the National Institute of Occupational Safety and Health. The respirators provided shall furnish a protection factor as required by CCR Title 8, Section 1529 for the fiber concentration in the work area. AIS will provide ½-face respirators with a sufficient supply of replacement HEPA filters for their personnel. P-100, Negative and positive flow test will be done prior to work when they are wearing the respirator. At the end of each shift the personnel protective equipment, disposable suits and filters will be collected and placed in DOT approved 55-gallon drums.

B. Protective Clothing: AIS will provide disposable protective clothing as required; full body disposable protective clothing including head, body, gloves, and foot coverings, shall be provided to all workers and authorized visitors in sizes adequate to accommodate movement without tearing. A new suit shall be donned upon each each work day.

C. All used PPE as well as respirators filters will be collected in a 55 DOT approved metal drum and placed in a proper storage area, for further disposal as Asbestos – Hazardous waste, proper paperwork. A manifest will be provided for pre-approval before the disposal is completed.

8.0 REMOVAL OF ACCM ASPHALT

A. Removal will be done using mechanical equipment and hand tools, minimizing material breakage.

B. Removal will be done under full PPE, and wet methods, using a combination of hand tools and a concrete/asphalt coring machine powered by a generator.

C. The ACCM Asphalt will be properly wet with amended water, during the removal and cleanup process.

D. Asphalt will be removed in small 3- or 4-inch diameter cores, trying to maintain the integrity of the soil or base materials beneath the asphalt for future environmental sampling.

E. Generated cores, because they are assumed to be ACCM, will be double bagged and placed in a 55-gallon DOT approved drum for disposal at a later date as non-friable ACCM.

F. Upon completion of removal of the cores at each location, a detail cleanup will be done using vacuums.

G. Upon completion AIS will notify Panacea that each work area is ready for visual inspection.

H. Visual inspection will be requested once the removal, transportation and cleanup is complete, upon satisfactory visual inspection by Panacea the cones, caution tape and signs will be removed.

9.0 TEARDOWN AND DEMOBILIZATION

A. AIS will proceed with the teardown when satisfactory visual inspection is achieved.

10.0 HANDLING AND DISPOSAL PROCEDURES

A. As the work progresses, all generated concrete cores and PPE will be placed in 55-gallon DOT approved drums that will be transported to an approved landfill for disposal.

B. All materials will be double bagged/wrapped in 6-mil polyethylene bags prior to placement in drums for eventual disposal at an appropriate landfill.

11.0 TRANSPORTER COMPANY AND FACILITY OR DISPOSAL NAME

A. Approximately 2 drums of material will be generated during ACCM coring operations: 1 drum of core materials and 1 drum of PPE.

B. Materials will be transported under manifest to the Azusa Land Reclamation Facility in Azusa, California or a landfill that has been approved by the LAUSD for management of ACCM.

12.0 DECONTAMINATION OF WORK AREA

A. AIS will remove all visible accumulations of debris by hand and vacuums.

B. AIS will do the final cleanup of the asphalt if required by Panacea and then request visual inspection by Panacea.

C. Removal of all cones, caution tape and signs after achievement of final visual inspection approval.

13.0 ENCAPSULATION

A. Not Applicable

14.0 DECONTAMINATION PROCEDURES FOR:

A. Equipment: Decontaminate all tools and equipment; these shall be cleaned using a filtered vacuum and wet cleaning methods. Remove the all-visible accumulations contaminated debris.

B. Personnel: Before leaving the regulated area for asbestos work, all personnel shall remove gross contamination from the outside of respirators and protective clothing by vacuuming and/or wet wiping methods.

1) Personnel shall proceed to the decontamination area where they remove all protective equipment except respirators. Deposit disposable clothing into appropriately labeled containers.

2) Still wearing respirator, personnel shall decontaminate hand, face and boots using wet wipe methods.

15.0 RENTAL EQUIPMENT

A. Not Applicable

16.0 AIR MONITORING/SAMPLING PROTOCOL

A. Perform personnel sampling including STEL and PEL in 29 CFR 1910 and 1926 to demonstrate appropriate worker PPE; engineering controls and work procedures, samples will be sent to independent laboratory and analyzed using NIOSH 7400 Method.

B. Negative exposure assessments are on file at Los Angeles Corporate Office for similar work tasks.

17.0 PROCEDURES FOR DEALING WITH HEAT STRESS

A. If any of the workers feel sick or do not feel good due to heat stress, they will notify the lead men and the lead men will immediately notify the onsite contact from Parsons.

B. All activities will be stopped, personnel will be decontaminated and moved to an

area that is cool and shaded. The supervisor will call 911, if necessary.

C. To prevent any type of problems AIS will provide proper shade and cold water outside the containment and 15-minute breaks if necessary, depending on the temperature of the work area.

18.0 SEQUENCE OF WORK ACTIVITIES

A. Work will begin at the locations designated by Parsons as having the potential for ACCM.

B. Setup will begin with cording off the work area with cones, caution tape and signage.

C. Coring work will be initiated with approval of the setup by Panacea including air monitoring.

D. Coring work will be completed, the debris will be double bagged and drummed.

E. The work area will be cleaned up with vacuums

F. Panacea will give clearance that the work was completed correctly.

G. Start the process over at a new location.

19.0 LAUSD REQUIREMENTS

A. All work perform by AIS will be in general accordance with all applicable Federal, State, and Local regulations, standards, and codes governing asbestos abatement and any other work performed in conjunction with the LAUSD Asbestos Abatement Specification Section 02 8213.

B. Comply with the provisions of the California Labor Code, Division 5, Part 1, as it pertains to safety in employment and the applicable provisions of Title 8, Chapter 4, and Subchapters 1 through 21, California Code of Regulations (CCR) as it pertains to Occupational Safety and Health, and Subchapter 7, Section 5208 Article 4, and Section 1529, Asbestos regulations.

C. See attach drawing for asphalt coring locations that may contain ACCM.

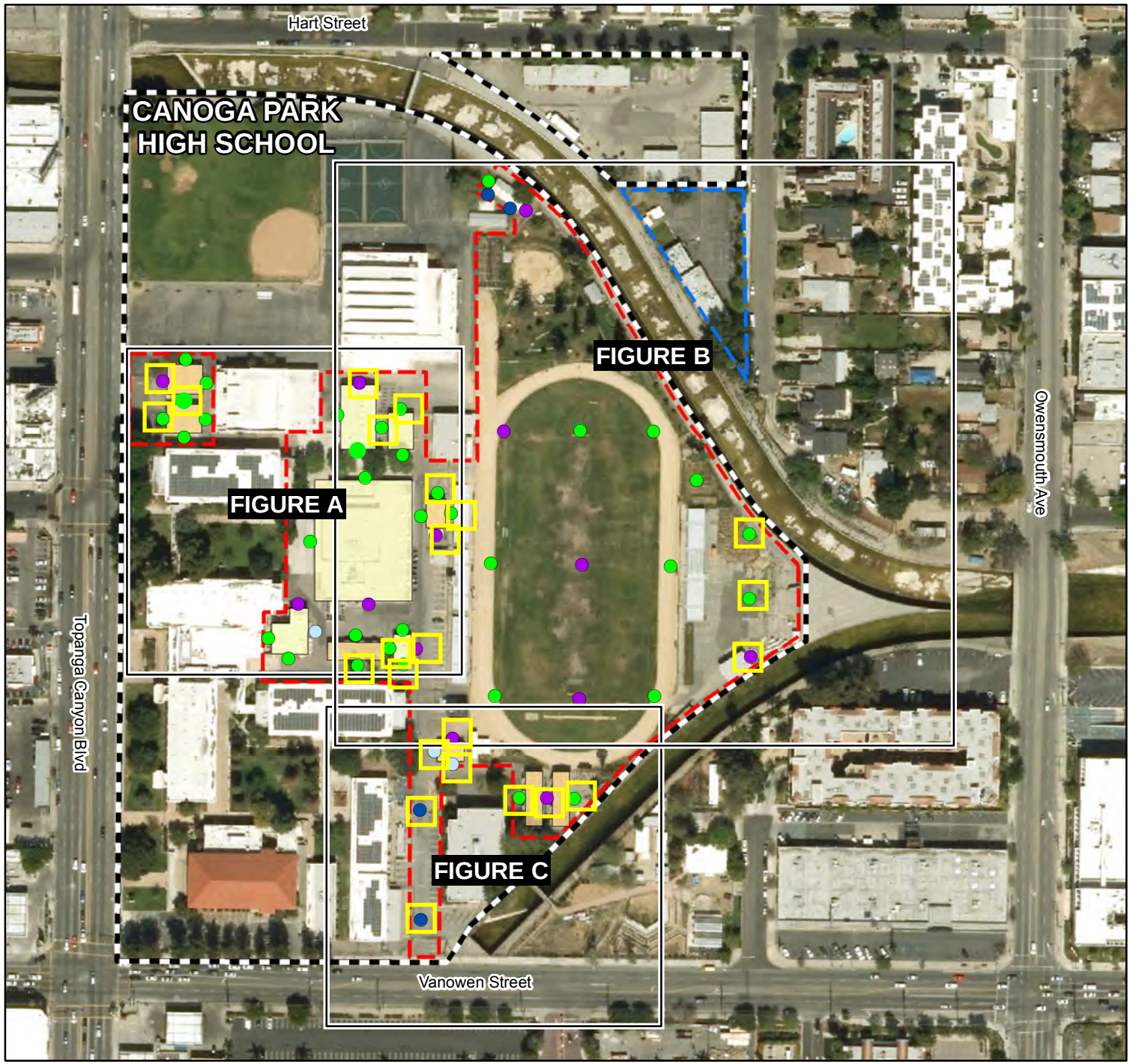


FIGURE 1

CANOGA PARK HIGH SCHOOL PROPOSED SAMPLING PLAN

Canoga Park High School
6850 CA-27
Canoga Park, California

Legend

Proposed Soil Boring - Analytes to be Sampled:

- Lead, Arsenic, OCPs
- Lead, Arsenic, OCPs, PCBs
- Lead, Arsenic, OCPs, TPH, VOCs
- 20% of Samples Analyzed for Rule 1466 Compounds
- Buildings to be Removed
- Portables to be Removed
- Continuation of High School
- Development
- School Property
- ACM Monitoring Only

PARSONS

Coordinate System: WGS 1984 UTM Zone 11N
Image - LA County, LARIAC4, 2013

100 0 100 200 Feet

N

PATH: F:\GISCADD\projects\LAUSD_CanogaPark\Mapfiles\LAUSD_CanogaPark_ProposedSamps.mxd Date: 3/29/2023

APPENDIX E

PANACEA, INC.
Environmental Services
14905 Paramount Blvd., Suite H • Paramount, CA 90723 • Tel. 562.860.2869 • Fax 562.528.7182

June 22, 2023

Attn: Mr. Justin King, Senior Field Project Manager
PARSONS
100 West Walnut Street
Pasadena, CA 91124

via Email
Justin.King@Parsons.com
Phone (626) 440-2747
Cell (310) 809-5793

SUBJECT: Asphalt Coring Performed at the Exterior Locations
Canoga Park Senior High (8571)
at 6850 Topanga Boulevard, California 91303

This letter summarizes the work activity performed by Panacea, Inc. (Panacea) on June 16, 2023, involving the coring of asphalt material at various exterior locations at the above-reference school. The purpose of the asphalt coring was to allow access for soil sampling performed by Parsons and Rice General.

In lieu of sample results, the asphalt was assumed to be asbestos-containing material (ACM). Hence, Panacea, Inc. (Panacea) staff used work practices in accordance with Los Angeles Unified School District (LAUSD) asbestos-related work specifications and/or policies. Necessary precautions were taken during the coring process, and the asphalt cores were carefully put back to their original locations.

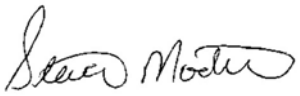
Since asphalt was assumed to contain asbestos, the coring work was performed using wet removal method by continuously applying water to the coring area to prevent generation of dust particles. This method effectively suppresses the release of asbestos fibers into the air and is widely recognized as an industry standard practice.

Throughout the coring process, Panacea's asbestos Certified Site Surveillance Technicians (CSST) wore appropriate personal protective equipment (PPE), including disposable coveralls, respirators, gloves, and protective eyewear. The asbestos-related work was performed under the direction of Panacea's Certified Asbestos Consultant (CAC).

Once the required soil core samples were obtained, the asphalt cores were put back to their original locations, patched with a new asphalt material, and the area was restored to its pre-drilling condition to the extent practical. The staff confirmed that no debris or residue was left behind, and the work area was thoroughly cleaned and inspected to meet the required standards.

If you have any questions or concerns, please feel free to contact me at (562) 860-2869.

Very truly yours,
PANACEA, INC.



Steven Modtland, Project Manager
CAC Certification No. 08-4373

Attachment:

- Certifications

CERTIFICATIONS

State of California
Division of Occupational Safety and Health
Certified Asbestos Consultant

Steven L Modtland
Name



Certification No. **08-4373**

Expires on **05/15/24**

This certification was issued by the Division of Occupational Safety and Health as authorized by Sections 7180 et seq. of the Business and Professions Code.

State of California
Division of Occupational Safety and Health
Certified Site Surveillance Technician

Steven Jacobo
Name



Certification No. **17-5878**

Expires on **03/14/24**

This certification was issued by the Division of Occupational Safety and Health as authorized by Sections 7180 et seq. of the Business and Professions Code.

State of California
Division of Occupational Safety and Health
Certified Site Surveillance Technician

Xavier F Lopez
Name



Certification No. **16-5765**

Expires on **11/16/23**

This certification was issued by the Division of Occupational Safety and Health as authorized by Sections 7180 et seq. of the Business and Professions Code.

PANACEA, INC.
Environmental Services

MONITORING FORM

1. PROJECT INFORMATION

Sampled By:	Shalamar Buchanan and Steven Jacobo	Sample Date:	04/04/2023 through 06/13/2023
Project Name:	Canoga Park Senior High	Project No.:	C23-981ATM
Site Address:	6850 Topanga Blvd., Canoga Park, California		
Project Work Description/Objective:	Area air monitoring to evaluate airborne fiber/asbestos concentrations during asphalt coring.		
Abatement Performed:	Temporarily remove core of asbestos-containing asphalt in order to sample soil then re-insert core and patch hole.		

2. REMEDIATION COMPANY INFORMATION

Remediation Company:	America Integrated Services
Contact Name:	Jeff Spellman
Address:	2550 E. Miraloma Way
Phone:	(310) 987-0790

3. AIR SAMPLE EVALUATION CRITERIA

ANALYTICAL METHOD(S):	EVALUATION CRITERIA:
■ PCM – NIOSH 7400 (Onsite Analysis)	■ 0.01 F/CC (PCM ANALYSIS)
☐ TEM – NIOSH 7402	☐ 0.01 S/CC (TEM ANALYSIS)
☐ TEM – YAMATE LEVEL II	☐ 70 S/MM^2
☐ TEM – AHERA	☐ 0.1 F/CC (OSHA PEL)
	☐ 1.0 F/CC (OSHA EXCURSION LIMIT)

4. NOTES AND ABBREVIATIONS (Where Applicable)

CAC = Certified Asbestos Consultant.

CSST = Certified Site Surveillance Technician.

F/CC = Fibers per cubic centimeter of air (PCM analysis); S/CC = Structure per cubic centimeter of air (TEM analysis); S/MM2 = Structures per millimeter of filter area (TEM analysis); < = Less than or below detection limit of the analysis used.

F/100 = Fibers per 100 fields for blank filter analysis.

N/A = Not Applicable.

Pass*: Yes = Sample concentration below the evaluation criteria; Pass*: No = Sample concentration above the evaluation criteria.

PCM = Phase contrast microscopy.

TEM = Transmission electron microscopy.

5. AIR SAMPLE RESULTS

Air samples were collected during the abatement (removal) process for asbestos-containing gaskets and analyzed by staff onsite using PCM.

SAMPLE NO.	DATE	PCM RESULTS (F/CC)	LOCATION	PASS*
20230404SB-A-1	04/04/2023	<0.0032	Ground floor, Exterior, northern portion, outside containment	Yes
20230404SB-A-2	04/04/2023	<0.0032	Ground floor, Exterior, eastern portion, outside containment	Yes
20230404SB-A-3	04/04/2023	<0.0032	Ground floor, Exterior, southern portion, outside containment	Yes
20230404SB-A-4	04/04/2023	<5.5 F/100	Field Blank	N/A
20230405SB-A-1	04/05/2023	<0.0089	Ground floor, Interior, northern portion, outside containment	Yes
20230405SB-A-2	04/05/2023	<0.0089	Ground floor, Interior, eastern portion, outside containment	Yes
20230405SB-A-3	04/05/2023	<0.0089	Ground floor, Interior, southern portion, outside containment	Yes
20230613SJ-A-1	06/13/2023	<0.0030	Ground floor, throughout, western portion, outside containment	Yes
20230613SJ-A-2	06/13/2023	<0.0030	Ground floor, throughout, southwestern portion, outside decontamination unit	Yes
20230613SJ-A-3	06/13/2023	<0.0030	Ground floor, throughout, southern portion, outside containment	Yes
20230613SJ-A-4	06/13/2023	<5.5 F/100	Field Blank	N/A

6. ASBESTOS VISUAL OBSERVATIONS

Asbestos visual observations were conducted by the onsite staff during asphalts coring process.

DATE	OBSERVED BY	COMMENTS
4/04/2023	Shalamar Buchanan	The work conducted on the exterior by AIS involved coring of the ACM asphalt and preparing for future soil sampling.
4/05/2023	Shalamar Buchanan	The work conducted on the exterior by AIS involved coring of the ACM asphalt and preparing for future soil sampling.
6/13/2023	Steven Jacobo	The work conducted on the exterior by Panacea involved coring of the ACM asphalt and preparing for future soil sampling.

7. VISUAL OBSERVATION RESULTS

Regulated work area established?	No
Negative air filtration device used?	No, wet methods used, ACM removed intact.
HVAC unit turned on during sampling?	No (openings sealed)
Sample collected during normal business hour?	N/A
Sample collected during normal business activities?	No (vacant building)
Significant dust or debris observed or remained?	No

8. CONCLUSION

Based on the in-house analytical result(s), current regulatory guidelines, state-of-the-industry practices, and the professional judgment of Panacea personnel, it is our opinion that:

- The air samples collected and analyzed during the coring of the asbestos-containing asphalt indicated the airborne fiber concentrations were below and meet the evaluation criteria.

Sampled By:	Shalamar Buchanan, CSST	**Reviewed By:**	Steven Modtland, CAC
Certification No.:	11-7017	**Certification No.:**	08-4373
Date:	08/17/2023	**Date:**	05/15/2024
Signature:	Shalamar Buchanan	**Signature:**	Steven Modtland

Sampled By:	Steven Jacobo, CSST
Certification No.:	17-5878
Date:	08/17/2023
Signature:	Steven Jacobo

Attachments:

- Photographs
- Personnel Certifications

PHOTOS



Setup and Progress



Core – Pic 1



Core - Pic 2

CERTIFICATIONS

State of California
Division of Occupational Safety and Health
Certified Asbestos Consultant

Steven L Modtland
Name



Certification No. **08-4373**

Expires on **05/15/24**

This certification was issued by the Division of Occupational Safety and Health as authorized by Sections 7180 et seq. of the Business and Professions Code.

State of California
Division of Occupational Safety and Health
Certified Site Surveillance Technician

Steven Jacobo
Name



Certification No. **17-5878**

Expires on **03/14/24**

This certification was issued by the Division of Occupational Safety and Health as authorized by Sections 7180 et seq. of the Business and Professions Code.

State of California
Division of Occupational Safety and Health
Certified Site Surveillance Technician

Shalamar C. Buchanan
Name



Certification No. **22-7017**

Expires on **01/21/24**

This certification was issued by the Division of Occupational Safety and Health as authorized by Sections 7180 et seq. of the Business and Professions Code.

APPENDIX F

PARSONS **Field Boring Log**

Location of Boring/Well:

See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Sunny, 53°F

Surface Conditions: grass/dirt

Boring/Well Number **SB-1**

Sheet 1 of 1

Drilling: Start Date **4/4/2023** Time **1045** | Finish Date **4/4/2023** Time **1100**

Notes:

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes
	1049			**1.5**			0	**SW/ML**	Sandy SILT. Brown. Dense and moist.
									Trace pebbles 1-2mm and trace roots.
							1		
	1053			**0.5**				**SW/ML**	Same as above.
							2		
	1057			**0.5**				**SW/ML**	Same as above.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well:

See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Sunny, 57°F

Surface Conditions: grass/dirt

Boring/Well Number **SB-2**

Sheet 1 of 1

Drilling Start Date **4/4/2023** Time **1000**

Drilling Finish Date **4/4/2023** Time **1035**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes:
	1005			0.5			0	SW/ML	Silty SAND. Brown. Loose and moist. Trace roots.
							1		
	1020			0.7				CL	CLAY. Brown. Dense and moist. Trace sand and silt.
							2		
	1030			0.7				CL	CLAY Light brown. Dense and moist trace sand.
							3	TD	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well:

See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Sunny, 53°F

Surface Conditions: grass/dirt

Boring/Well Number **SB-3**

Sheet 1 of 1

Drilling Start Date **4/4/2023** Time **905**

Drilling Finish Date **4/4/2023** Time **950**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes:
	910			**11.3**			0	**SW/ML**	Sandy SILT. Brown. Loose and moist. Trace micas, roots, and gravel pieces 1-2mm.
							1		
	935			**1.4**				**SW/ML**	Same as above, no trace gravel.
							2		
	945			**1.4**				**SW/ML**	Sandy SILT. Brown. Loose and moist.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well:

See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Sunny, 51°F

Surface Conditions: grass/dirt

Boring/Well Number **SB-4**

Sheet 1 of 1

Drilling Start Date **4/4/2023** Time **847**

Drilling Finish Date **4/4/2023** Time **900**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No.: MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes:
	849			**1.2**			0	**ML**	SILT. Brown. Loose and moist. Trace clay and trace leaves/compost.
							1		
	855			**1.3**				**SW/ML**	Sandy SILT. Brown. Loose and moist. Trace leaves/compost.
							2		Refusal at 2.1ft. Stepped out 1.0ft North and
								TD	South, encountered same refusal. Cannot step out to the East or West. Abandoned 3.0ft sample.
							3		TD = Total depth augered and sampled.
									Borings backfilled with native soil.
							4		
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well:

See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Sunny, 51°F

Surface Conditions: Soil

Boring/Well Number **SB-5**

Sheet 1 of 1

Drilling Start Date **4/4/2023** Time **815** | Finish Date **4/4/2023** Time **831**

Notes:

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes
	818			0.7			0	ML	SILT. Brown. Loose and moist. Trace sand.
							1		
	823			0.9				ML/CL	Silty CLAY. Brown. Dense and mosit. Trace roots.
							2		
	830			1.0				CL	CLAY. Brown. Dense and mosit. Trace silt.
							3	TD	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: ☐ Yes ☒ No

Person Sampled: Edward Dabsys

PARSONS **Field Boring Log**

Location of Boring/Well:

See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Sunny, 52°F

Surface Conditions: 3" asphalt core

Boring/Well Number **SB-6**

Sheet 1 of 1

Drilling Start Date **4/5/2023** Time **923**

Drilling Finish Date **4/5/2023** Time **935**

Notes:

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes
							0	**Asphalt**	Top 3" Asphalt.
								SW	SAND. Brown. Loose and moist. Trace silt
	925			**1.0**					and trace pebbles 1-2mm.
							1		
	929			**1.1**				**ML/CL**	Silty CLAY. Brown. Coarse, dense and mosit.
							2		
	933			**1.6**				**CL**	CLAY. Brown. Dense and mosit.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well:

See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Sunny, 52°F

Surface Conditions: 3" asphalt core

Boring/Well Number: **SB-7**

Sheet: 1 of 1

Drilling: Start Date **4/5/2023** Time **1000** | Finish Date **4/5/2023** Time **1017**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No.: MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes:
							0	**Asphalt**	Top 3" Asphalt.
								SW	SAND. Light brown. Coarse, loose and
	1002			**2.5**					moist. Trace silt.
							1		
	1009			**0.2**				**ML/CL**	Silty CLAY. Light brown - Olive. Dense and moist. Trace sand.
							2		
	1012			**0.8**				**CL**	CLAY. Brown. Dense and mosit. Trace silt.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well:

See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Sunny, 45°F

Surface Conditions: 4" concrete core

Boring/Well Number: **SB-8**

Sheet: 1 of 1

Drilling: Start Date **4/4/2023** Time **720** | Finish Date **4/4/2023** Time **740**

Notes:

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No.: MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes
							0	**Concrete**	Top 4" concrete.
								ML/SW	Silty SAND. Brown. Loose and moist.
	727			**0.6**					
							1		
	730			**0.8**				**ML**	SILT. Brown. Fine grained and powdery. Loose and Moist. Trace coarse sand.
							2		
	735			**0.6**				**ML**	Same as above but slightly more sand.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well: See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Sunny, 54°F

Surface Conditions: 5" asphalt core

Boring/Well Number **SB-11**

Sheet 1 of 1

Drilling: Start Date **4/5/2023** Time **1057** | Finish Date **4/5/2023** Time **1112**

Notes:

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes
							0	**Asphalt**	Top 5" Asphalt.
								SW	SAND. Light brown. Loose and moist.
	1100			**0.4**					Rocks and gravel 1-3mm.
							1		
	1106			**0.5**				**ML/CL**	Silty CLAY. Brown. Dense and moist.
									Trace sand.
							2		
	1109			**0.6**				**CL**	CLAY. Brown. Dense and mosit.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well:

See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Sunny, 50°F

Surface Conditions: 3.5" concrete core

Boring/Well Number: **SB-12**

Sheet: 1 of 1

Drilling Start Date: **4/4/2023** Time: **745**

Drilling Finish Date: **4/4/2023** Time: **805**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No.: MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes
							0	**Concrete**	Top 3.5" concrete.
								SW	SAND. Brown. Loose and moist.
	750			**0.7**					
							1		
	755			**0.7**				**SW/ML**	Sandy SILT. Brown. Dense and moist. Trace clay.
							2		
	802			**0.6**				**CL**	CLAY. Brown. Dense and moist. Trace sand.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well:

See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Sunny, 54°F

Surface Conditions: 4.5" asphalt core

Boring/Well Number: **SB-13**

Sheet: 1 of 1

Drilling: Start Date **4/5/2023** Time **1039** | Finish Date **4/5/2023** Time **1052**

Notes:

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No.: MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes
							0	**Asphalt**	Top 4.5" Asphalt.
								Base	Road base up to 8in. Sample collected at 1.0ft
	1041			**0.1**				**SW**	SAND. Light brown. Loose and moist.
									Trace clay.
							1		
	1044			**0.6**				**CL**	CLAY. Brown. Dense and moist.
									Trace sand.
							2		
	1047			**0.8**				**CL**	Same as above.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well: See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Sunny, 57°F

Surface Conditions: 4.5" asphalt core

Boring/Well Number **SB-14**

Sheet 1 of 1

Drilling: Start Date **4/5/2023** Time **1130** | Finish Date **4/5/2023** Time **1145**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes:
							0	**Asphalt**	Top 4.5" Asphalt.
								SW	SAND. Light brown. Loose and moist.
	1133			**0.0**					Trace silt and brick pieces.
							1		
	1137			**0.1**				**CL**	CLAY. Brown. Dense and moist.
									Trace sand and roots.
							2		
	1141			**0.5**				**CL**	Same as above.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well: See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Sunny, 59°F

Surface Conditions: 4" concrete core

Boring/Well Number: **SB-15**

Sheet: 1 of 1

Drilling: Start Date **4/3/2023** Time **1320** | Finish Date **4/3/2023** Time **1335**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No.: MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes
							0	**Concrete**	Top 4" concrete.
								Base	Road base up to 1.0ft.
	1324			**3.7**				**SW**	SAND. Light brown. Dense and moist.
									Trace clay, silt, and roots.
							1		
	1328			**3.7**				**CL**	CLAY. Light brown. Dense and moist.
									Trace sand.
							2		
	1332			**2.6**				**CL**	Same as above.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well:

See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Sunny, 59°F

Surface Conditions: 4" concrete core

Boring/Well Number: **SB-16**

Sheet: 1 of 1

Drilling: Start Date **4/3/2023** Time **1337** | Finish Date **4/3/2023** Time **1353**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No.: MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes
							0	**Concrete**	Top 4" concrete.
								SW	SAND. Brown. Loose and moist. Trace
	1339			**2.1**					gravel 1-2mm and roots.
							1		
	1347			**1.4**				**SW**	SAND. Light brown. Fine grained loose and
							2		moist. Trace gravel 1-2mm.
	1351			**2.6**				**SW**	Same as above.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well:

See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Sunny, 50°F

Surface Conditions: 5" asphalt core

Boring/Well Number **SB-17**

Sheet 1 of 1

Drilling Start Date **4/6/2023** Time **806** | Finish Date **4/6/2023** Time **820**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes:
							0	**Asphalt**	Top 5" Asphalt.
								SW	SAND. Light brown. Loose and moist.
	809			**0.7**					Trace silt and pebbles 1-2mm.
							1		
	812			**0.9**				**ML/SW**	Silty SAND.Light brown. Fine grained, loose, and moist. Trace clay.
							2		
	815			**0.7**				**ML/CL**	Silty CLAY. Brown. Dense and moist. Trace silt.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well:

See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Sunny, 59°F

Surface Conditions: 4" concrete core

Boring/Well Number **SB-18**

Sheet 1 of 1

Drilling Start Date **4/3/2023** Time **1252** | Finish Date **4/3/2023** Time **1307**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No.: MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes
							0	**Concrete**	Top 4" concrete.
								SW	SAND. Light brown. Loose and moist. Trace
	1254			**3.7**					gravel 1-2mm and silt.
							1		
	1259			**4.1**				**CL**	CLAY. Light brown. Dense and moist. Trace
									Trace silt.
							2		
	1303			**4.0**				**CL**	Same as above, but brown.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well:

See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Sunny, 50°F

Surface Conditions: 3" asphalt core

Boring/Well Number **SB-20**

Sheet 1 of 1

Drilling Start Date **4/6/2023** Time **825** | Finish Date **4/6/2023** Time **837**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes:
							0	**Asphalt**	Top 3" Asphalt.
								ML	SILT. Light brown. Loose and moist. Trace
	827			**0.9**					clay.
							1		
	830			**1.2**				**ML**	SILT. Light brown. Low plasticity, loose, and
									wet. Trace sand.
							2		
	834			**1.4**				**CL**	CLAY. Light brown. Low plasticity, dense, and
									wet. Trace silt.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well: See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Sunny, 59°F

Surface Conditions: 4" concrete core

Boring/Well Number: **SB-21**

Sheet: 1 of 1

Drilling: Start Date **4/3/2023** Time **1421** | Finish Date **4/3/2023** Time **1436**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No.: MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes
							0	**Concrete**	Top 4" concrete.
								ML/SW	Silty SAND. Brown. Coarse, loose, and moist.
	1425			**3.0**					Trace clay.
							1		
	1428			**23.0**				**ML/SW**	Same as above, more trace clay.
							2		
	1432			**3.5**				**ML/SW**	Same as above, but light brown.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well:

See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Sunny, 59°F

Surface Conditions: 10" concrete core

Boring/Well Number **SB-22**

Sheet 1 of 1

Drilling: Start Date **4/4/2023** Time **1255** | Finish Date **4/4/2023** Time **1310**

Notes:

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No.: MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes
							0	Concrete	Top 10" concrete.
									Top sample collected at 1.0ft.
	1258			0.1				SW	SAND. Light brown. Loose and moist. Trace
							1		clay and gravel 1-2mm.
	1304			0.0				SW/CL	Sandy CLAY. Light brown. Dense and moist.
							2		Trace gravel.
	1307			0.3				SW/CL	Same as above, no gravel.
							3	TD	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well:

See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Sunny, 54°F

Surface Conditions: 3.5" concrete core

Boring/Well Number **SB-23**

Sheet 1 of 1

Drilling Start Date **4/3/2023** Time **930** | Finish Date **4/3/2023** Time **947**

Notes:

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No.: MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes
							0	**Concrete**	Top 3.5" concrete.
								SW	SAND. Brown. Loose and moist. Trace silt,
	935			**2.3**					gravel 1-2mm, and roots.
							1		
	939			**4.0**				**CL**	CLAY. Brown. Dense and moist. Trace silt.
							2		
	945			**3.8**				**CL**	Same as above, but trace brick pieces.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well: See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Cloudy, 52°F

Surface Conditions: 5" concrete core

Boring/Well Number: **SB-24**

Sheet: 1 of 1

Drilling: Start Date **4/3/2023** Time **1023** | Finish Date **4/3/2023** Time **1043**

Notes:

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No.: MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [X] No [ ] Yes

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes
							0	**Concrete**	Top 5" concrete.
								SW/ML	Sandy SILT. Dark brown. Dense and moist.
	1029			**4.0**					Trace pebbles.
							1		
	1033			**4.1**				**SW/ML**	Same as above, less sand.
							2		
	1040			**2.8**				**SW/ML**	Same as above, lots of gravel pieces.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well:

See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger | Boring/Well Number: **SB-25**

Sampling Method Hand Auger | Sheet: 1 of 1

Weather Conditions: Drizzle, 52°F | Drilling

Surface Conditions: 4" concrete core | Start Date: **4/3/2023** | Finish Date: **4/3/2023**

Notes: | Start Time: **958** | Finish Time: **1015**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No.: MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes
							0	**Concrete**	Top 4" concrete.
								SW/ML	Sandy SILT. Light brown. Loose and moist.
	1000			**3.1**					Trace sand and pebbles ~1mm.
							1		
	1005			**2.3**				**SW/ML**	Same as above, more sand.
							2		
	1011			**3.1**				**ML/SW**	Silty SAND. Light brown. Dense and moist.
									Trace clay.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well: See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Cloudy, 57°F

Surface Conditions: 5" asphalt core

Boring/Well Number: **SB-26**

Sheet: 1 of 1

Drilling: Start Date **4/3/2023** Time **1215** | Finish Date **4/3/2023** Time **1232**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No.: MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes:
							0	**Asphalt**	Top 5" Asphalt.
								ML/SW	Silty SAND. Light brown. Loose and moist.
	1217			**3.5**					Trace gravel.
							1		
	1226			**5.9**				**ML**	SILT. Light brown. Loose and moist.
									Trace fine grained sand.
							2		
	1230			**4.2**				**ML**	Same as above, trace clay.
									wet. Trace silt.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well:

See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Cloudy, 54°F

Surface Conditions: 9" asphalt core

Boring/Well Number: **SB-27**

Sheet: 1 of 1

Drilling Start Date: **4/3/2023** Time: **1052**

Drilling Finish Date: **4/3/2023** Time: **1110**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No.: MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes:
							0	**Asphalt**	Top 9" Asphalt.
	1055			**7.1**				**ML/SW**	Silty SAND. Light brown. Coarse, loose and
							1		moist.
	1103			**4.2**				**SW/ML**	Sandy SILT. Light brown. Fine grained, dense moist.
							2		
	1109			**2.1**				**SW/ML**	Same as above.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well: See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Sunny, 64°F

Surface Conditions: 5" asphalt core

Boring/Well Number **SB-28**

Sheet 1 of 1

Drilling: Start Date **4/6/2023** Time **920** | Finish Date **4/6/2023** Time **932**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes:
							0	**Asphalt**	Top 5" Asphalt.
								SW	SAND. Light brown. Loose and moist. Trace
	922			**1.4**					yellow sand and pebbles 1-2mm.
							1		
	925			**0.8**				**CL**	CLAY. Olive brown. Dense and moist.
							2		
	929			**0.9**				**CL**	CLAY. Brown. Dense and moist.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well: See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Cloudy, 58°F

Surface Conditions: 5" asphalt core

Boring/Well Number: **SB-29**

Sheet: 1 of 1

Drilling: Start Date **4/3/2023** Time **1152** | Finish Date **4/3/2023** Time **1207**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No.: MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes:
							0	**Asphalt**	Top 5" Asphalt.
								SW	SAND. Brown. Coarse, loose, and moist.
	1155			**6.7**					Trace gravel 1-2mm.
							1		
	1201			**4.1**				**SW/ML**	Sandy SILT. Brown. Dense and moist.
							2		
	1204			**3.0**				**SW/ML**	Same as above.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well:

See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Sunny, 62°F

Surface Conditions: 4" asphalt core

Boring/Well Number **SB-30**

Sheet 1 of 1

Drilling Start Date **4/6/2023** Time **936** | Finish Date **4/6/2023** Time **950**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes:
							0	**Asphalt**	Top 4" Asphalt.
								SW	CLAY. Brown. Dense and moist. Trace sand.
	939			**0.5**					
							1		
								SW/ML	Same as above, no trace sand.
	943			**0.7**					
								TD	Refusal at 19" due to undetected pipe.
							2		Collected 0.5ft and 2.0ft samples. Pipe is
									trending NNW.
									TD = Total depth augered and sampled.
							3		Borings backfilled with native soil.
							4		
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well: See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Sunny, 52°F

Surface Conditions: 3" asphalt core

Boring/Well Number **SB-31**

Sheet 1 of 1

Drilling: Start Date **4/6/2023** Time **845** | Finish Date **4/6/2023** Time **900**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes:
							0	**Asphalt**	Top 3" Asphalt.
								SW	SAND. Brown with streaks of rust color.
	847			**1.0**					Loose, and moist. Trace pebbles <1mm.
							1		
	853			**2.1**				**SW/ML**	SAND. Light brown. Fine grained, loose and moist.
							2		
	857			**2.8**				**SW/ML**	CLAY. Brown. Dense and moist. Trace silt and pebbles <1mm.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well:

See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Sunny, 52°F

Surface Conditions: 7" asphalt core

Boring/Well Number **SB-32**

Sheet 1 of 1

Drilling: Start Date **4/6/2023** Time **905**; Finish Date **4/6/2023** Time **917**

Notes:

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes
							0	**Asphalt**	Top 7" Asphalt.
	907			**0.8**				**SW**	SAND. Brown. Coarse, loose, and moist. Trace silt and pebbles 1-2mm.
							1		
	910			**1.2**				**ML/SW**	Silty SAND. Brown. Loose and moist. Trace pebbles 1-2mm.
							2		
	913			**1.4**				**ML/SW**	Same as above, no trace pebbles.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well:

See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Sunny, 47°F

Surface Conditions: 6.5" asphalt core

Boring/Well Number: **SB-33**

Sheet: 1 of 1

Drilling: Start Date **4/5/2023** Time **653** | Finish Date **4/5/2023** Time **708**

Notes:

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No.: MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes
							0	**Asphalt**	Top 6.5" Asphalt.
	656			**0.2**				**ML**	SILT. Brown. Dense and moist. Trace sand.
							1		
	659			**2.8**				**ML**	Same as above, trace clay and roots.
							2		
	705			**8.6**				**ML**	Same as above, no trace roots.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well: See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Sunny, 48°F

Surface Conditions: 4" asphalt core

Boring/Well Number **SB-34**

Sheet 1 of 1

Drilling: Start Date **4/5/2023** Time **730** | Finish Date **4/5/2023** Time **745**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes:
							0	**Asphalt**	Top 4" Asphalt.
								SW	SAND. Brown. Dense and moist. Trace silt,
	733			**0.4**					roots, and pebbles 1-2mm.
							1		
	737			**1.0**				**ML/CL**	Silty CLAY. Brown. Dense and mosit. Trace
									roots and pebbles.
							2		
	743			**1.4**				**CL**	CLAY. Brown. Dense and moist.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well:

See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Sunny, 48°F

Surface Conditions: 4" asphalt core

Boring/Well Number **SB-35**

Sheet 1 of 1

Drilling Start Date **4/5/2023** Time **751** | Finish Date **4/5/2023** Time **811**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes:
							0	**Asphalt**	Top 4" Asphalt.
								SW	SAND. Brown. Loose and moist. Trace clay
	753			**7.7**					and pebbles 1-2mm.
							1		
	758			**6.4**				**CL**	CLAY. Brown. Fine grained, dense, and moist.
									Trace silt.
							2		
	811			**1.9**				**CL**	Same as above.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well:

See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Sunny, 54°F

Surface Conditions: 6" asphalt core

Boring/Well Number **SB-36**

Sheet 1 of 1

Drilling: Start Date **4/4/2023** Time **1150** | Finish Date **4/4/2023** Time **1215**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No.: MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes:
							0	**Asphalt**	Top 6" Asphalt.
	1152			**0.2**				**SW**	SAND. Brown. Loose and moist. Trace silt.
							1		
	1202			**0.6**				**SW**	SAND. Light brown. Loose and moist.
							2		
	1212			**0.4**				**SW**	Same as above.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well:

See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Sunny, 53°F

Surface Conditions: 6" asphalt core

Boring/Well Number **SB-37**

Sheet 1 of 1

Drilling Start Date **4/4/2023** Time **1115** | Finish Date **4/4/2023** Time **1140**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes:
							0	**Asphalt**	Top 6" Asphalt.
	1120			**0.2**				**SW/CL**	Sandy CLAY. Light brown. Coarse, dense, and moist.
							1		
	1130			**0.6**				**SW**	SAND. Light brown. Loose and moist. Trace silt.
							2		
	1135			**0.4**				**SW**	Same as above.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well:

See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Sunny, 53°F

Surface Conditions: 2" asphalt core

Boring/Well Number **SB-38**

Sheet 1 of 1

Drilling: Start Date **4/5/2023** Time **825** | Finish Date **4/5/2023** Time **840**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes:
							0	**Asphalt**	Top 2" Asphalt.
								Base	Road base until 6".
	827			**0.7**				**SW**	SAND. Brown. Loose and moist. Trace gravel 1-2mm.
							1		
	834			**1.1**				**CL**	CLAY. Brown. Dense and moist. Trace sand.
							2		
	837			**1.2**				**CL**	Same as above.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well:

See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Sunny, 50°F

Surface Conditions: grass/dirt

Boring/Well Number **SB-39**

Sheet 1 of 1

Drilling Start Date **4/5/2023** Time **830**

Drilling Finish Date **4/5/2023** Time **906**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes:
	852			**0.9**			0	**ML/SW**	Silty SAND. Brown. Coarse, loose, and moist. Trace roots and gravel.
							1		
	856			**1.0**				**CL**	CLAY. Brown. Dense and moist. Trace gravel 1-2mm.
							2		
	900			**0.8**				**CL**	Same as above.
							3	**TD**	TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well: See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Sunny, 47°F

Surface Conditions: 2" asphalt core

Boring/Well Number: **SB-40**

Sheet: 1 of 1

Drilling: Start Date **4/5/2023** Time **715** | Finish Date **4/5/2023** Time **727**

Notes:

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No.: MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes
							0	**Asphalt**	Top 2" Asphalt.
								ML	SILT. Brown. Fine grained, dense, and moist.
	717			**0.7**					Trace clay and roots.
							1		
	720			**1.0**				**ML**	SILT. Brown. Fine grained, loose and moist.
							2		
	723			**1.2**				**SW/ML**	Sandy SILT. Brown. Loose and moist. Trace roots.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well:

See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Sunny, 64°F

Surface Conditions: grass/dirt

Boring/Well Number **SB-41**

Sheet 1 of 1

Drilling: Start Date **4/5/2023** Time **1235** | Finish Date **4/5/2023** Time **1250**

Notes:

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes
	1237			**0.4**			0	**ML**	SILT. Brown. Loose and moist. Trace roots.
							1		
	1243			**0.7**				**CL**	CLAY. Dark brown. Dense and moist. Trace roots.
							2		
	1248			**0.1**				**CL**	Same as above.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

PARSONS **Field Boring Log**

Location of Boring/Well:

See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Sunny, 64°F

Surface Conditions: grass/dirt

Boring/Well Number **SB-42**

Sheet 1 of 1

Drilling: Start Date **4/5/2023** Time **1257** | Finish Date **4/5/2023** Time **1312**

Notes: Moved ~2ft South due to ant hill. All samples collected here.

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No.: MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	
	1300			0.0			0	ML	SILT. Dark brown. Loose and moist. Trace sand amd roots.
							1		
	1305			0.4				CL	CLAY. Dark brown. Dense and mosit.
							2		
	1310			0.3				CL	Same as above.
							3	TD	TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well:

See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Sunny, 64°F

Surface Conditions: sand/track

Boring/Well Number **SB-43**

Sheet 1 of 1

Drilling: Start Date **4/5/2023** Time **1319** | Finish Date **4/5/2023** Time **1330**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes:
	1321			0.6			0	SW	SAND. Light brown. Loose and moist. Trace silt.
							1		
	1324			0.3				CL	CLAY. Brown. Dense and mosit.
							2		
	1327			0.4				CL	Same as above.
							3	TD	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well:

See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Sunny, 65°F

Surface Conditions: sand/track

Boring/Well Number **SB-44**

Sheet 1 of 1

Drilling Start Date **4/5/2023** Time **1410**

Drilling Finish Date **4/5/2023** Time **1423**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes:
	1412			0.7			0	SW	SAND. Brown. Loose and moist. Trace clay and pebbles 1-2mm.
							1		
	1416			4.2				CL	CLAY. Brown. Dense and moist.
							2		
	1420			3.0				CL	Same as above.
							3	TD	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well:

See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Sunny, 65°F

Surface Conditions: grass/dirt

Boring/Well Number **SB-45**

Sheet 1 of 1

Drilling: Start Date **4/5/2023** Time **1351** | Finish Date **4/5/2023** Time **1405**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes:
	1354			**0.7**			0	**ML**	SILT. Dark brown. Loost and moist. Trace roots.
							1		
	1358			**0.7**				**CL**	CLAY. Brown. Dense and moist. Trace silt and trace pebbles 1-2mm.
							2		
	1402			**0.8**				**CL**	Same as above, color slightly lighter.
							3	**TD**	TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well:

See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Sunny, 65°F

Surface Conditions: Sand/track

Boring/Well Number **SB-46**

Sheet 1 of 1

Drilling Start Date **4/5/2023** Time **1334**

Drilling Finish Date **4/5/2023** Time **1346**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes:
	1337			**0.7**			0	**SW**	SAND. Light brown with streaks of red. Loose and moist. Trace clay.
							1		
	1340			**0.7**				**SW**	Same as above, lighter brown color.
							2		
	1344			**0.4**				**CL**	CLAY. Brown. Dense and mosit.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well:

See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Sunny, 64°F

Surface Conditions: Sand/track

Boring/Well Number **SB-47**

Sheet 1 of 1

Drilling Start Date **4/5/2023** Time **1435**

Drilling Finish Date **4/5/2023** Time **1451**

Notes:

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes
	1437			**2.8**			0	**SW**	SAND. Brown. Loose and moist. Trace clay.
							1		
	1439			**3.8**				**CL**	CLAY. Brown. Dense and moist. Trace sand.
							2		
	1443			**3.3**				**CL**	Same as above, no trace sand.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well:

See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Sunny, 45°F

Surface Conditions: grass/dirt

Boring/Well Number **SB-48**

Sheet 1 of 1

Drilling: Start Date **4/6/2023** Time **705** | Finish Date **4/6/2023** Time **720**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes:
	709			**0.3**			0	**ML**	SILT. Brown. Loose and mosit. Trace sand and trace pebbles 1-2mm.
							1		
	714			**0.3**				**CL**	CLAY. Brown. Dense and mosit. Trace silt.
							2		
	718			**0.3**				**CL**	Same as above.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well:

See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Sunny, 45°F

Surface Conditions: Sand/track

Boring/Well Number **SB-49**

Sheet 1 of 1

Drilling Start Date **4/6/2023** Time **724**

Drilling Finish Date **4/6/2023** Time **737**

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes:
	726			**0.6**			0	**SW**	SAND. Olive - brown. Coarse, loose, and moist. Trace pebbles 1-2mm.
							1		
	729			**0.7**				**CL**	CLAY. Brown. Loose and moist. Trace silt.
							2		
	732			**0.6**				**CL**	Same as above, no trace silt.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

PARSONS **Field Boring Log**

Location of Boring/Well:

See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Sunny, 57°F

Surface Conditions: grass/dirt

Boring/Well Number **SB-50**

Sheet 1 of 1

Drilling Start Date **4/4/2023** Time **1450** | Drilling Finish Date **4/4/2023** Time **1505**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes:
	1452			**0.7**			0	**SW**	SAND. Olive - brown. Loose and moist. Trace brick pieces, roots, and silt.
							1		
	1455			**0.8**				**CL**	Silty SAND. Brown. Dense and mosit.
							2		
	1458			**0.1**				**CL**	CLAY. Brown. Dense and moist. Trace sand.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well:

See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Sunny, 54°F

Surface Conditions: 3" asphalt core

Boring/Well Number **SB-51**

Sheet 1 of 1

Drilling: Start Date **4/4/2023** Time **1431** | Finish Date **4/4/2023** Time **1443**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes
							0	**Asphalt**	Top 3" Asphalt.
								CL	CLAY. Olive - brown. Dense and moist. Trace
	1432			**0.5**					sand.
							1		
	1434			**0.4**				**CL**	Same as above, less trace sand.
							2		
	1437			**0.7**				**CL**	Same as above.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well:

See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Sunny, 54°F

Surface Conditions: 2" asphalt core

Boring/Well Number **SB-52**

Sheet 1 of 1

Drilling: Start Date **4/4/2023** Time **1415** | Finish Date **4/4/2023** Time **1430**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes:
							0	**Asphalt**	Top 2" Asphalt.
								CL	CLAY. Light brown. Dense and moist. Trace
	1417			**0.9**					silt.
							1		
	1420			**1.6**				**CL**	Same as above.
							2		
	1424			**0.9**				**CL**	Same as above.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well:

See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Sunny, 55°F

Surface Conditions: 4" asphalt core

Boring/Well Number: **SB-53**

Sheet: 1 of 1

Drilling: Start Date **4/4/2023** Time **1350** | Finish Date **4/4/2023** Time **1405**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No.: MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes:
							0	**Asphalt**	Top 4" Asphalt.
								SW	SAND. Light brown. Loose and moist. Trace
	1352			**0.7**					silt.
							1		
	1359			**8.7**				**SW**	SAND. Light brown. Fine grained, loose, and
									moist. Trace clay.
							2		
	1401			**35.4**				**SW**	Same as above, trace gravel 1-2mm.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well:

See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Sunny, 59°F

Surface Conditions: 5.5" concrete core

Boring/Well Number: **SB-54**

Sheet: 1 of 1

Drilling Start Date: **4/3/2023** Time: **1400**

Drilling Finish Date: **4/3/2023** Time: **1415**

Notes:

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No.: MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	
							0	**Concrete**	Top 5.5" concrete.
								SW	SAND. Grey - brown. Loose and moist.
	1405			**2.9**					Trace gravel and roots.
							1		
	1408			**3.5**				**CL**	CLAY. Brown. Fine grained, dense, and moist. Trace sand and gravel 1-2mm.
							2		
	1412			**2.9**				**CL**	Same as above.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well:

See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Sunny, 51°F

Surface Conditions: 5" asphalt core

Boring/Well Number **SB-55**

Sheet 1 of 1

Drilling: Start Date **4/5/2023** Time **945** | Finish Date **4/5/2023** Time **958**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes:
							0	**Asphalt**	Top 5" Asphalt.
								SW	SAND. Light brown. Loose and moist. Trace
	948			**0.8**					silt and clay.
							1		
	952			**1.1**				**CL**	CLAY. Brown. Dense and moist. Trace sand
									and pebbles >1mm.
							2		
	955			**1.0**				**CL**	CLAY. Olive - brown. Dense and moist.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well: See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Cloudy, 65°F

Surface Conditions: Soil

Boring/Well Number: **SB-1-NE5**

Sheet 1 of 1

Drilling: Start Date **6/12/2023** Time **1003** | Finish Date **6/12/2023** Time **1012**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes
	1005			**0.0**			0	**SW**	SAND. Brown. Loose and moist. Trace silt and trace roots.
							1		
	1007			**0.0**				**SW**	Same as above.
							2		
	1010			**0.0**				**SW**	Same as above.
							3	**TD**	TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well: See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Cloudy, 65°F

Surface Conditions: grass/dirt

Boring/Well Number: **SB-1-NW5**

Sheet: 1 of 1

Drilling: Start Date **6/12/2023** Time **1014** | Finish Date **6/12/2023** Time **1021**

Notes:

Geologist: Peter Shair | Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID | Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar | Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No | Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes
	1016			**0.0**			0	**SW**	SAND. Brown. Loose and moist.
							1		
	1018			**0.0**				**SW**	Same as above.
							2		
	1020			**0.0**				**ML/SW**	Silty SAND. Brown. Loose and moist.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well: See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Cloudy, 65°F

Surface Conditions: grass/dirt

Boring/Well Number: **SB-1-NW10**

Sheet: 1 of 1

Drilling: Start Date **6/12/2023** Time **1023** | Finish Date **6/12/2023** Time **1031**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes
	1025			**11.3**			0	**SW**	SAND. Brown. Loose and moist. Trace Roots.
							1		
	1027			**0.0**				**ML/SW**	Silty SAND. Light Brown. Loose and Moist
							2		
	1029			**0.0**				**ML/SW**	Same as above.
							3	**TD**	TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well: See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Cloudy, 65°F

Surface Conditions: Grass/soil

Boring/Well Number: **SB-1-SW5**

Sheet: 1 of 1

Drilling Start Date: **6/12/2023** Time: **1037**

Drilling Finish Date: **6/12/2023** Time: **1047**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes
	1039			**0.0**			0	**SW**	SAND. Brown. Loose and moist. Trace roots.
							1		
	1043			**0.0**				**ML/SW**	Silty SAND. Light brown. Loose and moist Trace roots.
							2		
	1045			**0.0**				**ML/SW**	Same as above.
							3	**TD**	TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well: See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Cloudy, 65°F

Surface Conditions: Soil/grass

Boring/Well Number: **SB-1-SW10**

Sheet: 1 of 1

Drilling: Start Date **6/12/2023** Time **1055** | Finish Date **6/12/2023** Time **1101**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes
	1056			**0.0**			0	**SW**	SAND. Brown. Loose and moist.
							1		
	1058			**0.0**				**SW**	Same as above.
							2		
	1100			**0.0**				**SW**	Same as above, slightly lighter brown.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well: See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Cloudy, 65°F

Surface Conditions: Asphalt core top 3"

Boring/Well Number: **SB-3-NW5**

Sheet: 1 of 1

Drilling: Start Date **6/13/2023** Time **1214** | Finish Date **6/13/2023** Time **1224**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes
							0	**Asphalt**	Asphalt top 3"
								SW	SAND. Brown. Loose and moist.
	1216			**0.0**					Trace silt and gravel 1-2mm.
							1		
	1220			**0.0**				**SW**	SAND. Light brown. Loose and moist.
							2		
	1222			**0.0**				**SW**	Same as above.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well: See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Cloudy, 65°F

Surface Conditions: Asphalt core top 3"

Boring/Well Number: **SB-3-NW10**

Sheet: 1 of 1

Drilling: Start Date **6/13/2023** Time **1227** | Finish Date **6/13/2023** Time **1237**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes:
							0	**Asphalt**	Asphalt top 3"
								SW	SAND. Brown. Dense and moist.
	1230			**0.0**					Trace clay.
							1		
	1232			**0.0**				**ML/SW**	Silty SAND. Olive - brown. Loose and moist.
							2		
	1235			**0.0**				**ML/SW**	Same as above.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well: See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Cloudy, 65°F

Surface Conditions: grass/soil

Boring/Well Number: **SB-3-SW5**

Sheet: 1 of 1

Drilling: Start Date **6/12/2023** Time **1122** | Finish Date **6/12/2023** Time **1130**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes
	1124			**3.8**			0	**ML**	SILT. Light brown. Fine and powdery. Loose and moist.
							1		
	1126			**0.0**				**SW**	SAND. Light brown. Loose and moist Trace silt.
							2		
	1128			**0.0**				**SW**	Same as above.
							3	**TD**	TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well: See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Cloudy, 65°F

Surface Conditions: grass/soil

Boring/Well Number: **SB-3-SW10**

Sheet: 1 of 1

Drilling: Start Date **6/12/2023** Time **1135** | Finish Date **6/12/2023** Time **1142**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes
	1136			**0.0**			0	**SW**	SAND. Brown. Loose and moist.
									Trace roots.
							1		
	1138			**0.0**				**SW**	SAND. Light brown. Loose and moist
							2		Trace brick and mortar pieces.
	1140			**0.0**				**SW**	Same as above, no trace brick.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well: See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Cloudy, 65°F

Surface Conditions: grass/soil

Boring/Well Number: **SB-3-SE5**

Sheet 1 of 1

Drilling: Start Date **6/12/2023** Time **1145** | Finish Date **6/12/2023** Time **1152**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes:
	1146			**0.0**			0	**SW**	SAND. Olive - brown. Loose and moist. Trace roots.
							1		
	1148			**0.0**				**ML/SW**	Silty SAND. Brown. Loose and moist.
							2		
	1150			**0.0**				**ML/SW**	Same as above.
							3	**TD**	TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well: See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Cloudy, 65°F

Surface Conditions: grass/soil

Boring/Well Number: **SB-3-SE10**

Sheet: 1 of 1

Drilling: Start Date **6/12/2023** Time **1158** | Finish Date **6/12/2023** Time **1206**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes
	1200			**0.0**			0	**SW**	SAND. Light brown. Loose and moist.
									Trace roots and trace silt
							1		
	1202			**0.0**				**ML/SW**	Silty SAND. Light brown. Loose and moist.
							2		
	1204			**0.0**				**ML/SW**	Same as above.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well: See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Cloudy, 68°F

Surface Conditions: soil

Boring/Well Number **SB-5-E5**

Sheet 1 of 1

Drilling Start Date **6/12/2023** Finish Date **6/12/2023**

Start Time **1350** Finish Time **1400**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes
	1352			**0.0**			0	**SW**	SAND. Light brown. Loose and moist. Trace roots and trace silt
							1		
	1354			**0.0**				**SW**	SAND. Brown. Dense and moist. Trace clay.
							2		
	1357			**0.0**				**SW**	Same as above.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well: See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Cloudy, 68°F

Surface Conditions: soil

Boring/Well Number: **SB-5-NE5**

Sheet: 1 of 1

Drilling Start Date: **6/12/2023** Time: **1402**

Drilling Finish Date: **6/12/2023** Time: **1411**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes
	1403			**0.0**			0	**SW**	SAND. Brown. Loose and moist.
									Trace gravel 1-2mm, roots, and trace silt.
							1		
	1407			**0.0**				**SW**	SAND. Brown. Loose and moist.
									Trace roots and clay.
							2		
	1410			**0.0**				**SW**	SAND. Brown. Loose and moist. Trace roots.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well: See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Cloudy, 68°F

Surface Conditions: soil

Boring/Well Number: **SB-5-NE10**

Sheet 1 of 1

Drilling: Start Date **6/12/2023** Time **1412** | Finish Date **6/12/2023** Time **1420**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes
	1414			**0.0**			0	**SW**	SAND. Light brown. Loose and moist. Trace roots, gravel and trace silt
							1		
	1416			**0.0**				**SW**	SAND. Brown. Loose and moist. Trace roots
							2		
	1418			**0.0**				**CL**	CLAY. Brown. Dense and moist. Trace sand.
							3	**TD**	TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well: See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Cloudy, 68°F

Surface Conditions: soil

Boring/Well Number **SB-5-W5**

Sheet 1 of 1

Drilling Start Date **6/12/2023** Finish Date **6/12/2023**

Start Time **1422** Finish Time **1430**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes:
	1424			**4.9**			0	**ML/SW**	Silty SAND. Light brown. Loose and moist. Very fine/powdery. Trace pebbles 1-2mm.
							1		
	1426			**0.0**				**SW**	SAND. Brown. Loose and moist. Trace silt.
							2		
	1428			**0.0**				**CL**	CLAY. Brown. Dense and Moist. Trace gravel up to 5mm.
							3	**TD**	TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well: See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Cloudy, 68°F

Surface Conditions: soil

Boring/Well Number: **SB-5-NW5**

Sheet: 1 of 1

Drilling: Start Date **6/12/2023** Time **1432** | Finish Date **6/12/2023** Time **1441**

Notes:

Geologist: Peter Shair | Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID | Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar | Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No | Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes
	1434			**0.0**			0	**SW**	SAND. Brown. Loose and moist. Trace roots and pebbles 1-2mm.
							1		
	1437			**0.0**				**SW**	SAND. Brown. Dense and moist. Trace clay.
							2		
	1439			**0.0**				**CL**	CLAY. Brown. Dense and moist. Trace roots.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well: See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Cloudy, 55°F

Surface Conditions: Asphalt core top 3"

Boring/Well Number **SB-7-N5**

Sheet 1 of 1

Drilling Start Date **6/14/2023** Time **707** | Finish Date **6/14/2023** Time **715**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes:
							0	**Asphalt**	Asphalt top 3"
								SW	SAND. Olive-brown. Coarse, loose and
	709			**0.0**					moist.
							1		
	711			**0.0**				**CL**	CLAY. Brown. Dense and moist. Trace sand.
							2		
	713			**0.0**				**CL**	CLAY. Light brown. Loose and moist.
									Trace sand.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well: See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Cloudy, 55°F

Surface Conditions: Asphalt core top 3"

Boring/Well Number **SB-7-N10**

Sheet 1 of 1

Drilling: Start Date **6/14/2023** Time **719** | Finish Date **6/14/2023** Time **728**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes
							0	**Asphalt**	Asphalt top 3"
	721			**0.0**				**SW**	SAND. Light brown. Coarse, loose and moist.
							1		
	723			**0.0**				**CL**	CLAY. Brown. Dense and Moist. Trace sand.
							2		
	726			**0.0**				**CL**	Same as above.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well: See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Cloudy, 55°F

Surface Conditions: Asphalt core top 5"

Boring/Well Number: **SB-7-W5**

Sheet: 1 of 1

Drilling: Start Date **6/14/2023** Time **730** | Finish Date **6/14/2023** Time **737**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes
							0	**Asphalt**	Asphalt top 5"
								SW	SAND. Light brown. Loose and moist.
	732			**0.0**					
							1		
								TD	Undetected pipe at ~1.1ft. No further boring
									possible at this location.
							2		TD = Total depth augered and sampled.
									Borings backfilled with native soil.
							3		
							4		
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well: See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Cloudy, 55°F

Surface Conditions: Asphalt core top 4"

Boring/Well Number **SB-7-W10**

Sheet 1 of 1

Drilling Start Date **6/14/2023** Time **739** | Finish Date **6/14/2023** Time **747**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes:
							0	**Asphalt**	Asphalt top 4"
								SW	SAND. Light brown. Loose and moist.
	741			**0.0**					Trace clay.
							1		
	743			**0.0**				**SW**	SAND. Brown. Dense and moist. Trace clay.
							2		
	745			**0.0**				**SW**	Same as above.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well: See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Cloudy, 55°F

Surface Conditions: Asphalt core top 4"

Boring/Well Number **SB-7-S5**

Sheet 1 of 1

Drilling Start Date **6/14/2023** Time **750** | Finish Date **6/14/2023** Time **801**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes:
							0	**Asphalt**	Asphalt top 4"
								SW	SAND. Olive-brown. Loose and moist.
	752			**0.0**					Trace clay and roots.
							1		
	756			**0.0**				**SW/CL**	Sandy CLAY. Brown. Dense and moist.
									Trace roots
							2		
	759			**0.0**				**CL**	CLAY. Light brown. Dense and mosit.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well: See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Cloudy, 55°F

Surface Conditions: Asphalt core top 4"

Boring/Well Number **SB-7-S10**

Sheet 1 of 1

Drilling: Start Date **6/14/2023** Time **806** | Finish Date **6/14/2023** Time **815**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes
							0	**Asphalt**	Asphalt top 4"
								SW	SAND. Brown. Loose and moist.
	808			**0.0**					Trace gravel 1-2mm.
							1		
	810			**0.0**					CLAY. Brown. Dense and moist. Trace sand.
							2		
	813			**0.0**				**CL**	Same as above, no trace sand.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well: See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Sunny, 72°F

Surface Conditions: Asphalt core top 5"

Boring/Well Number: **SB-20-S5**

Sheet: 1 of 1

Drilling Start Date: **6/13/2023** Time: **1248**

Drilling Finish Date: **6/13/2023** Time: **1256**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes:
							0	**Asphalt**	Asphalt top 5"
								SW	Silty SAND. Brown. Loose and moist.
	1250			**0.0**					Fine and powdery.
							1		
	1252			**0.0**				**ML**	Sandy SILT. Light brown. Loose and moist.
									Trace gravel 1-2mm.
							2		
	1254			**0.0**				**ML**	Sandy SILT. Light brown. Dense and moist.
									Trace clay.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well: See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Sunny, 72°F

Surface Conditions: Asphalt core top 5"

Boring/Well Number **SB-20-S10**

Sheet 1 of 1

Drilling Start Date **6/13/2023** Time **1300** | Finish Date **6/13/2023** Time **1310**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes:
							0	**Asphalt**	Asphalt top 5"
								SW	Silty SAND. Light brown. Loose and moist.
	1302			**0.0**					
							1		
	1304			**0.0**				**ML**	Sandy SILT. Light brown. Loose and moist.
							2		
	1307			**0.0**				**ML**	Same as above.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well: See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Cloudy, 60°F

Surface Conditions: Asphalt core top 5"

Boring/Well Number: **SB-26-W5**

Sheet: 1 of 1

Drilling: Start Date **6/12/2023** Time **814** | Finish Date **6/12/2023** Time **820**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes
							0	**Asphalt**	Asphalt top 5"
	815			**0.0**				**SW**	SAND. Brown. Dense and moist. Trace clay and gravel pieces.
							1		
	817			**0.0**				**CL**	Sandy CLAY. Olive-brown. Dense and moist.
							2		
	819			**0.0**				**CL**	Same as above.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well: See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Cloudy, 60°F

Surface Conditions: Asphalt core top 5"

Boring/Well Number: **SB-26-W10**

Sheet: 1 of 1

Drilling: Start Date **6/12/2023** Time **824** | Finish Date **6/12/2023** Time **830**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes
							0	**Asphalt**	Asphalt top 5"
	825			**0.0**				**SW**	SAND. Light brown. Loose and moist. Trace gravel pieces.
							1		
	827			**0.0**				**SW**	Same as above, and trace clay
							2		
	829			**0.0**				**CL**	CLAY. Brown. Dense and moist. Trace sand.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well: See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Cloudy, 60°F

Surface Conditions: Asphalt core top 5"

Boring/Well Number: **SB-26-S5**

Sheet: 1 of 1

Drilling: Start Date **6/12/2023** Time **835** | Finish Date **6/12/2023** Time **845**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes
							0	**Asphalt**	Asphalt top 5"
	837			**0.0**				**SW**	SAND. Brown. Loose and moist. Trace gravel.
							1		
	841			**0.0**				**ML**	SILT. Light brown. Loose and moist.
							2		
	843			**0.0**				**CL**	CLAY. Brown. Dense and moist.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well: See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Cloudy, 60°F

Surface Conditions: Asphalt core top 5"

Boring/Well Number: **SB-26-S10**

Sheet 1 of 1

Drilling Start Date: **6/12/2023** Time: **847**

Drilling Finish Date: **6/12/2023** Time: **855**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes
							0	**Asphalt**	Asphalt top 5"
	849			**0.0**				**SW**	SAND. Brown. Loose and moist. Trace gavel 1-2mm.
							1		
	851			**0.0**				**SW**	SAND. Light brown. Fine grained. Loose and moist.
							2		
	853			**0.0**				**SW**	SAND. Brown. Dense and moist. Trace clay.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well: See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Cloudy, 60°F

Surface Conditions: Asphalt core top 4"

Boring/Well Number: **SB-26-E5**

Sheet: 1 of 1

Drilling Start Date: **6/12/2023** Time: **857**

Drilling Finish Date: **6/12/2023** Time: **907**

Notes:

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	
							0	**Asphalt**	Asphalt top 4"
	901			**0.0**				**SW**	SAND. Brown. Loose and moist. Trace pebbles 1-2mm.
							1		
	903			**0.0**				**SW**	SAND. Light brown. Loose and moist. Fine grained. Trace clay.
							2		
	905			**0.0**				**CL**	CLAY. Brown. Dense and moist.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well: See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Cloudy, 60°F

Surface Conditions: Asphalt core top 4"

Boring/Well Number: **SB-26-E10**

Sheet: 1 of 1

Drilling: Start Date **6/12/2023** Time **910** | Finish Date **6/12/2023** Time **918**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes
							0	**Asphalt**	Asphalt top 4"
	912			**0.0**				**SW**	SAND. Light brown. Loose and moist. Trace gravel pieces 1-2mm.
							1		
	914			**0.0**				**ML/SW**	Silty SAND. Light brown. Dense and moist.
							2		
	916			**0.0**				**CL**	CLAY. Brown. Dense and moist.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well: See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Cloudy, 60°F

Surface Conditions: Asphalt core top 5"

Boring/Well Number: **SB-26-NW5**

Sheet: 1 of 1

Drilling Start Date: **6/12/2023** Time: **805**

Drilling Finish Date: **6/12/2023** Time: **812**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [X] No [ ] Yes

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes
							0	**Asphalt**	Asphalt top 5"
	806			**0.0**				**SW**	SAND. Light brown. Loose and moist. Trace silt and gravel.
							1		
	808			**0.0**				**SW**	Same as above.
							2		
	810			**0.0**				**SW**	Same as above.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well: See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Cloudy, 58°F

Surface Conditions: Asphalt core top 5"

Boring/Well Number: **SB-28-E10**

Sheet: 1 of 1

Drilling Start Date: **6/14/2023** Time: **844**

Drilling Finish Date: **6/14/2023** Time: **852**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes
							0	**Asphalt**	Asphalt top 5"
	846			**0.0**				**SW**	SAND. Light brown. Loose and moist. Trace pebbles 1-2mm.
							1		
	848			**0.0**				**CL**	Sandy CLAY. Brown-Olive. Dense and moist.
							2		
	850			**0.0**				**CL**	Same as above.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well: See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Cloudy, 58°F

Surface Conditions: Asphalt core top 5"

Boring/Well Number: **SB-28-W10**

Sheet: 1 of 1

Drilling Start Date: **6/14/2023** Time: **855**

Drilling Finish Date: **6/14/2023** Time: **905**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes
							0	**Asphalt**	Asphalt top 5"
	857			**0.0**				**SW**	SAND. Light brown. Loose and moist. Coarse.
							1		
	900			**0.0**				**CL**	CLAY. Brown. Dense and moist. Trace sand.
							2		
	902			**0.0**				**CL**	Same as above.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well: See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Cloudy, 60°F

Surface Conditions: Asphalt core top 4"

Boring/Well Number: **SB-34-N10**

Sheet: 1 of 1

Drilling: Start Date **6/14/2023** Time **917** | Finish Date **6/14/2023** Time **927**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes
							0	**Asphalt**	Asphalt top 4"
	919			**0.0**				**SW**	SAND. Brown. Loose and moist. Trace clay.
							1		
	923			**0.0**				**SW**	SAND. Light brown. Loose and moist. Trace silt and trace roots.
							2		
	925			**0.5**				**CL**	CLAY. Brown. Dense and moist. Trace roots.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well: See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Cloudy, 60°F

Surface Conditions: Asphalt core top 4"

Boring/Well Number: **SB-34-S10**

Sheet: 1 of 1

Drilling Start Date: **6/14/2023** Time: **931**

Drilling Finish Date: **6/14/2023** Time: **940**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes:
							0	**Asphalt**	Asphalt top 4"
	933			**0.0**				**SW**	SAND. Olive. Loose and moist. Trace silt.
							1		
	936			**5.5**				**SW**	SAND. Olive. Dense and moist. Trace clay and trace roots
							2		
	938			**0.9**				**CL**	CLAY. Olive. Dense and moist. Trace sand.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well: See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Sunny, 62°F

Surface Conditions: Asphalt core top 3"

Boring/Well Number **SB-38-S10**

Sheet 1 of 1

Drilling Start Date **6/13/2023** Time **849** | Finish Date **6/13/2023** Time **858**

Geologist: Peter Shair | Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID | Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar | Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No | Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes:
							0	**Asphalt**	Asphalt top 3"
	851			**0.0**				**SW**	SAND. Brown. Loose and moist.
							1		Trace gravel and pebbles 1-2mm.
	854			**0.0**				**SW**	SAND. Olive-brown. Dense and moist.
							2		Trace clay.
	856			**0.0**				**CL**	CLAY. Brown. Dense and moist.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well: See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Sunny, 62°F

Surface Conditions: Asphalt core top 2"

Boring/Well Number: **SB-38-N5**

Sheet: 1 of 1

Drilling Start Date: **6/13/2023** Time: **902**

Drilling Finish Date: **6/13/2023** Time: **911**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [X] No [ ] Yes

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes:
							0	**Asphalt**	Asphalt top 2"
	904			**0.0**				**CL**	CLAY. Brown. Dense and moist. Trace sand and trace roots.
							1		
	906			**0.0**				**CL**	Same as above, no roots.
							2		
	909			**0.0**				**CL**	Same as above.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well: See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Sunny, 62°F

Surface Conditions: Asphalt core top 3"

Boring/Well Number: **SB-38-N10**

Sheet: 1 of 1

Drilling Start Date: **6/13/2023** Time: **914**

Drilling Finish Date: **6/13/2023** Time: **922**

Notes:

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes
							0	**Asphalt**	Asphalt top 3"
	916			**0.0**				**CL**	CLAY. Brown. Dense and moist. Trace sand and trace roots.
							1		
	918			**0.0**				**CL**	Same as above.
							2		
	920			**0.0**				**CL**	Same as above.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well: See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Sunny, 62°F

Surface Conditions: Asphalt core top 3"

Boring/Well Number: **SB-38-W5**

Sheet: 1 of 1

Drilling Start Date: **6/13/2023** Time: **925**

Drilling Finish Date: **6/13/2023** Time: **935**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes:
							0	**Asphalt**	Asphalt top 3"
	927			**0.0**				**SW**	SAND. Brown. Dense and moist.
							1		Trace clay and gravel 1-2mm.
	931			**0.0**				**CL**	CLAY. Brown. Dense and moist.
							2		
	933			**0.0**				**CL**	Same as above.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well: See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Sunny, 62°F

Surface Conditions: Asphalt core top 4"

Boring/Well Number: **SB-38-W10**

Sheet: 1 of 1

Drilling Start Date: **6/13/2023** Time: **937**

Drilling Finish Date: **6/13/2023** Time: **945**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [X] No [ ] Yes

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes:
							0	**Asphalt**	Asphalt top 4"
	939			**0.0**				**SW**	SAND. Brown. Loose and moist. Trace clay.
							1		
	941			**0.0**				**SW**	Same as above.
							2		
	943			**0.0**				**CL**	CLAY. Brown. Dense and moist. Trace sand.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well: See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Cloudy, 59°F

Surface Conditions: Soil

Boring/Well Number: **SB-39-N5**

Sheet: 1 of 1

Drilling: Start Date **6/13/2023** Time **720** | Finish Date **6/13/2023** Time **730**

Notes: Moved ~6in East due to sprinkler line. All samples collected here.

Geologist: Peter Shair | Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID | Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar | Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No | Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Description
	722			**0.0**			0	**SW**	SAND. Brown. Loose and moist. Trace gravel and trace roots.
							1		
	724			**0.0**				**CL**	CLAY. Brown. Dense and moist. Trace sand.
							2		
	727			**0.0**				**CL**	Same as above, trace roots.
							3	**TD**	TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well: See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Cloudy, 59°F

Surface Conditions: Soil

Boring/Well Number: **SB-39-N10**

Sheet: 1 of 1

Drilling: Start Date **6/13/2023** Time **735** | Finish Date **6/13/2023** Time **743**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes
	737			**0.0**			0	**SW**	SAND. Brown. Dense and moist. Trace clay.
							1		
	739			**0.0**				**CL**	CLAY. Brown. Dense and moist. Trace sand.
							2		
	741			**0.0**				**CL**	Same as above.
							3	**TD**	TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well: See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Cloudy, 59°F

Surface Conditions: Soil

Boring/Well Number: **SB-39-S5**

Sheet 1 of 1

Drilling Start Date: **6/13/2023** Time: **745**

Drilling Finish Date: **6/13/2023** Time: **755**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes
	747			**0.0**			0	**SW**	SAND. Brown. Dense and moist. Trace clay.
							1		
	751			**0.0**				**CL**	CLAY. Brown. Dense and moist. Trace sand.
							2		
	753			**0.0**				**CL**	Same as above.
							3	**TD**	TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well: See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Cloudy, 59°F

Surface Conditions: Soil

Boring/Well Number: **SB-39-S10**

Sheet: 1 of 1

Drilling Start Date: **6/13/2023** Time: **802**

Drilling Finish Date: **6/13/2023** Time: **810**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes
	804			**0.0**			0	**SW**	SAND. Brown. Loose and moist. Trace silt.
							1		
	806			**0.0**				**SW**	SAND. Brown. Dense and moist. Trace clay.
							2		
	808			**0.0**				**CL**	CLAY. Brown. Dense and moist.Trace sand.
							3	**TD**	TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well: See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Cloudy, 60°F

Surface Conditions: Asphalt core top 3"

Boring/Well Number: **SB-39-E5**

Sheet: 1 of 1

Drilling Start Date: **6/13/2023** Time: **816**

Drilling Finish Date: **6/13/2023** Time: **825**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes:
							0	**Asphalt**	Asphalt top 3"
	819			**0.0**				**SW**	SAND. Brown. Loose and moist. Trace clay.
							1		
	821			**0.0**				**CL**	CLAY. Brown. Dense and moist. Trace sand.
							2		
	823			**0.0**				**CL**	Same as above.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well: See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Cloudy, 60°F

Surface Conditions: Asphalt core top 3"

Boring/Well Number: **SB-39-E10**

Sheet: 1 of 1

Drilling: Start Date **6/13/2023** Time **829** | Finish Date **6/13/2023** Time **837**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes:
							0	**Asphalt**	Asphalt top 3"
	831			**0.0**				**SW**	SAND. Brown. Dense and moist. Trace clay.
							1		
	833			**0.0**				**CL**	CLAY. Brown. Dense and moist.
							2		
	835			**0.0**				**CL**	Same as above, trace roots.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well: See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Cloudy, 68°F

Surface Conditions: Track/dirt

Boring/Well Number: **SB-44-W5**

Sheet: 1 of 1

Drilling: Start Date **6/12/2023** Time **1252** | Finish Date **6/12/2023** Time **1300**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes
	1253			**0.0**			0	**SW**	SAND. Brown. Dense and moist.
							1		
	1255			**0.0**				**SW**	SAND. Brown. Loose and moist.
							2		
	1257			**0.0**				**ML/SW**	Silty SAND. Olice. Loose and moist.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well: See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Cloudy, 68°F

Surface Conditions: Track/dirt

Boring/Well Number: **SB-44-N5**

Sheet: 1 of 1

Drilling: Start Date **6/12/2023** Time **1303** | Finish Date **6/12/2023** Time **1312**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes
	1305			**0.0**			0	**SW**	SAND. Brown. Dense and moist.
							1		
	1308			**0.0**				**SW**	SAND. Brown. Loose and moist. Trace clay.
							2		
	1310			**0.0**				**CL**	CLAY. Brown. Dense and moist.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well: See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Cloudy, 68°F

Surface Conditions: Track/dirt

Boring/Well Number: **SB-44-N10**

Sheet: 1 of 1

Drilling: Start Date **6/12/2023** Time **1315** | Finish Date **6/12/2023** Time **1323**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes
	1317			**0.0**			0	**SW**	SAND. Brown. Dense and moist. Trace clay.
							1		
	1319			**0.0**				**SW**	Same as above.
							2		
	1321			**0.0**				**CL**	CLAY. Brown. Desne and moist.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well: See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Cloudy, 68°F

Surface Conditions: Track/dirt

Boring/Well Number: **SB-44-S10**

Sheet: 1 of 1

Drilling: Start Date **6/12/2023** Time **1326** | Finish Date **6/12/2023** Time **1337**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes
	1329			**4.0**			0	**SW**	SAND. Brown. Loose and moist. Trace gravel 1-2mm
							1		
	1331			**0.0**				**SW**	SAND. Brown. Dense and moist. Trace clay.
							2		
	1334			**0.0**				**CL**	CLAY. Brown. Dense and moist.
							3	**TD**	TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well: See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Sunny, 62°F

Surface Conditions: Asphalt core top 4"

Boring/Well Number **SB-51-N5**

Sheet 1 of 1

Drilling Start Date **6/13/2023** Time **1037** | Finish Date **6/13/2023** Time **1045**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes:
							0	**Asphalt**	Asphalt top 4"
	1039			**0.0**				**CL**	CLAY. Light brown. Dense and moist. Trace sand.
							1		
	1041			**0.0**				**SW/CL**	Sandy CLAY. Light brown - Olive. Dense and moist.
							2		
	1043			**0.0**				**CL**	CLAY. Light brown. Dense and moist. Trace sand.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well: See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Sunny, 62°F

Surface Conditions: Asphalt core top 5"

Boring/Well Number **SB-51-S5**

Sheet 1 of 1

Drilling Start Date **6/13/2023** Time **1047** | Finish Date **6/13/2023** Time **1055**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes
							0	**Asphalt**	Asphalt top 5"
	1049			**0.0**				**CL**	CLAY. Light brown. Dense and moist.
							1		
	1051			**0.0**				**CL**	Same as above.
							2		
	1053			**0.0**				**CL**	CLAY. Olive. Loose and moist. Trace silt.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well: See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Sunny, 62°F

Surface Conditions: Asphalt core top 3"

Boring/Well Number **SB-51-E5**

Sheet 1 of 1

Drilling Start Date **6/13/2023** Time **1100** | Finish Date **6/13/2023** Time **1109**

Geologist: Peter Shair | Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID | Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar | Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No | Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes
							0	**Asphalt**	Asphalt top 3"
	1102			**0.0**				**CL**	CLAY. Brown. Dense and moist.
									Trace brick and mortor.
							1		
	1104			**0.0**				**CL**	CLAY. Olive-light brown. Loose and moist.
									Trace silt.
							2		
	1107			**0.0**				**CL**	Same as above.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well: See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Sunny, 62°F

Surface Conditions: Asphalt core top 4"

Boring/Well Number: **SB-51-W5**

Sheet: 1 of 1

Drilling: Start Date **6/13/2023** Time **1112** | Finish Date **6/13/2023** Time **1121**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes
							0	**Asphalt**	Asphalt top 4"
	1114			**0.0**				**SW**	SAND. Brown. Loose and moist. Trace clay and pebbles 1-2mm.
							1		
	1116			**0.0**				**CL**	CLAY. Brown. Dense and moist. Trace silt.
							2		
	1118			**0.0**				**CL**	Same as above.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well: See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Sunny, 82°F

Surface Conditions: Soil

Boring/Well Number: **SB-1-W10**

Sheet: 1 of 1

Drilling Start Date: **7/17/2023** Time: **1045**

Drilling Finish Date: **7/17/2023** Time: **1053**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes
	1046			**0.0**			0	**SW**	SAND. Light brown. Loose and moist. Trace grass.
							1		
	1048			**0.0**				**SW**	Silty SAND. Light brown. Loose and moist.
							2		
	1051			**0.0**				**SW**	Same as above.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well: See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Sunny, 82°F

Surface Conditions: Soil

Boring/Well Number: **SB-1-SW20**

Sheet: 1 of 1

Drilling: Start Date **7/17/2023** Time **1053** | Finish Date **7/17/2023** Time **1100**

Notes:

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes
	1054			**0.0**			0	**SW**	SAND. Light brown. Loose and moist. Trace grass.
							1		
	1056			**0.0**				**ML**	Sandy SILT. Light brown. Loose and moist.
							2		
	1059			**0.0**				**ML**	SILT. Light brown. Loose and moist.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well: See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Sunny, 85°F

Surface Conditions: Soil/grass

Boring/Well Number: **SB-3-S10**

Sheet: 1 of 1

Drilling Start Date: **7/17/2023** Time: **1111**

Drilling Finish Date: **7/17/2023** Time: **1119**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes
	1111			**0.0**			0	**SW**	SAND. Light brown. Loose and moist. Trace grass.
							1		
	1115			**0.0**				**SW**	Silty SAND. Light brown. Loose and moist. Grains are very fine.
							2		
	1117			**0.0**				**SW**	Same as above.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well: See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Sunny, 85°F

Surface Conditions: Soil/grass

Boring/Well Number: **SB-3-S15**

Sheet: 1 of 1

Drilling: Start Date **7/17/2023** Time **1102** | Finish Date **7/17/2023** Time **1110**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes
	1103			**0.0**			0	**SW**	SAND. Brown. Loose and moist.
							1		
	1105			**0.0**				**ML**	SILT. Light brown. Loose and moist.
							2		
	1108			**0.0**				**ML**	Same as above.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well: See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Sunny, 82°F

Surface Conditions: Soil

Boring/Well Number: **SB-5-E20**

Sheet 1 of 1

Drilling Start Date: **7/17/2023** Time: **1012**

Drilling Finish Date: **7/17/2023** Time: **1023**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes
	1015			**0.0**			0	**ML**	SILT. Light brown. Loose and moist. Grains are very fine.
							1		
	1020			**0.0**				**CL**	CLAY. Brown. Dense and moist.
							2		
	1022			**1.0**				**CL**	Same as above.
							3	**TD**	TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well: See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Sunny, 82°F

Surface Conditions: Soil

Boring/Well Number: **SB-5-W15**

Sheet: 1 of 1

Drilling Start Date: **7/17/2023** Time: **1003**

Drilling Finish Date: **7/17/2023** Time: **1011**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes
	1005			**0.0**			0	**ML**	SILT. Light brown. Loose and moist.
							1		
	1007			**0.0**				**CL**	Silty CLAY. Light brown. Loose and moist.
							2		
	1010			**0.0**				**CL**	CLAY. Light brown. Dense and moist.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well: See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Sunny, 82°F

Surface Conditions: Concrete core top 5 inches

Boring/Well Number: **SB-7-S20**

Sheet: 1 of 1

Drilling Start Date: **7/17/2023** Time: **953**

Drilling Finish Date: **7/17/2023** Time: **1002**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes:
							0	**Concrete**	Concrete top 5"
	955			**0.0**				**SW**	Silty SAND. Brown. Loose and moist. Trace roots.
							1		
	957			**0.0**				**CL**	Silty CLAY. Brown. Dense and moist.
							2		
	1000			**0.0**				**CL**	CLAY. Brown. Dense and moist.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well: See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Sunny, 82°F

Surface Conditions: Concrete core top 5 inches

Boring/Well Number: **SB-7-SW20**

Sheet: 1 of 1

Drilling: Start Date **7/17/2023** Time **942** | Finish Date **7/17/2023** Time **952**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes
							0	**Concrete**	Concrete top 5"
	946			**0.0**				**SW**	Silty SAND. Brown. Dense and moist. Trace roots.
							1		
	948			**0.0**				**CL**	CLAY. Brown. Dense and moist. Trace roots.
							2		
	951			**0.0**				**CL**	Same as above.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well: See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Sunny, 82°F

Surface Conditions: Concrete core top 4 inches

Boring/Well Number: **SB-7-SW25**

Sheet 1 of 1

Drilling Start Date: **7/17/2023** Time: **925**

Drilling Finish Date: **7/17/2023** Time: **937**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes:
							0	Concrete	Concrete top 4"
	928			0.0				ML	Sandy SILT. Light brown. Loose and moist. Trace roots.
							1		
	931			0.0				ML	SILT. Brown. Loose and moist.
							2		
	933			0.0				CL	CLAY. Brown. Dense and moist. Trace sand.
							3	TD	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well: See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Sunny, 72°F

Surface Conditions: Asphalt core top 4 inches

Boring/Well Number: **SB-26-E15**

Sheet: 1 of 1

Drilling Start Date: **7/17/2023** Time: **821**

Drilling Finish Date: **7/17/2023** Time: **832**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes
							0	**Asphalt**	Asphalt top 4"
	823			**0.0**				**CL**	Sandy CLAY. Brown. Loose and moist.
							1		
	827			**0.0**				**CL**	CLAY. Light brown. Loose and moist.
							2		
	829			**0.0**				**CL**	Same as above.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well: See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Sunny, 79°F

Surface Conditions: Asphalt core top 4 inches

Boring/Well Number: **SB-26-E25**

Sheet: 1 of 1

Drilling Start Date: **7/17/2023** Time: **900**

Drilling Finish Date: **7/17/2023** Time: **910**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes
							0	**Asphalt**	Asphalt top 4"
	900			**0.0**				**SW**	SAND. Light brown. Loose and moist.
							1		
	902			**0.0**				**CL**	CLAY. Brown. Dense and moist.
							2		
	904			**0.0**				**CL**	Same as above.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well: See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Sunny, 80°F

Surface Conditions: Asphalt core top 6 inches

Boring/Well Number: **SB-26-SE10**

Sheet: 1 of 1

Drilling: Start Date **7/17/2023** Time **840** | Finish Date **7/17/2023** Time **850**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes
							0	**Asphalt**	Asphalt top 6"
	842			**0.0**				**ML**	Sandy SILT. Brown. Loose and moist.
							1		
	846			**0.0**				**CL**	CLAY. Light brown. Dense and moist.
							2		
	849			**0.0**				**CL**	CLAY. Brown. Dense and moist. Lots of gravel pieces at around 2.9 feet bgs.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well: See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Sunny, 79°F

Surface Conditions: Asphalt core top 5 inches

Boring/Well Number: **SB-26-SW10**

Sheet: 1 of 1

Drilling: Start Date **7/17/2023** Time **745** | Finish Date **7/17/2023** Time **752**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes
							0	**Asphalt**	Asphalt top 5"
	746			**0.0**				**SW**	Silty SAND. Light brown. Loose and moist.
							1		
	747			**0.0**				**ML**	SILT. Olive - light brown. Loose and moist.
							2		
	748			**0.1**				**CL**	CLAY. Brown. Dense and moist.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well: See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Sunny, 76°F

Surface Conditions: Asphalt core top 4 inches

Boring/Well Number: **SB-26-W15**

Sheet: 1 of 1

Drilling Start Date: **7/17/2023** Time: **810**

Drilling Finish Date: **7/17/2023** Time: **820**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes:
							0	**Asphalt**	Asphalt top 4"
	814			**0.0**				**ML**	Sandy SILT. Brown. Dense and moist. Trace clay.
							1		
	815			**0.0**				**SW**	SAND. Light brown. Loose and moist.
							2		
	816			**0.0**				**CL**	CLAY. Brown. Dense and moist.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well: See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Sunny, 72°F

Surface Conditions: Soil

Boring/Well Number: **SB-38-SW-25**

Sheet: 1 of 1

Drilling Start Date: **7/17/2023** Time: **715**

Drilling Finish Date: **7/17/2023** Time: **725**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes
	720			**0.4**			0	**ML**	SILT. Light brown. Loose and moist.
									Trace gravel.
							1		Hit unmarked water line at about 18inches.
									Flooding prevents further sampling.
								TD	
							2		TD = Total depth augered and sampled.
									Borings backfilled with native soil.
							3		
							4		
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well: See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Sunny, 90°F

Surface Conditions: Sand/track

Boring/Well Number: **SB-44-N20**

Sheet: 1 of 1

Drilling Start Date: **7/17/2023** Time: **1301**

Drilling Finish Date: **7/17/2023** Time: **1315**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes
	1301			**0.0**			0	**SW**	Silty SAND. Light brown. Loose and moist.
							1		
	1304			**0.0**				**SW**	Same as above.
							2		
	1306			**0.0**				**CL**	CLAY. Brown. Dense and moist.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well: See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Sunny, 90°F

Surface Conditions: Sand/track

Boring/Well Number: **SB-44-S20**

Sheet: 1 of 1

Drilling: Start Date **7/17/2023** Time **1249** | Finish Date **7/17/2023** Time **1300**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [X] No [ ] Yes

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes
	1250			**0.0**			0	**SW**	Silty SAND. Light brown. Loose and moist.
							1		
	1251			**0.0**				**SW**	Same as above.
							2		
	1252			**0.0**				**CL**	CLAY. Brown. Dense and moist.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well: See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Sunny, 90°F

Surface Conditions: Asphalt core top 3 inches

Boring/Well Number: **SB-51-SE10**

Sheet: 1 of 1

Drilling: Start Date **7/17/2023** Time **1211** | Finish Date **7/17/2023** Time **1215**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes
	1211			**0.0**			0	**Asphalt**	Asphalt top 3"
								CL	Silty CLAY. Brown. Loose and moist.
							1		
	1212			**0.0**				**CL**	Silty CLAY. Brown. Dense and moist.
							2		
	1213			**0.0**				**CL**	Same as above.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well: See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Sunny, 90°F

Surface Conditions: Asphalt core top 3 inches

Boring/Well Number: **SB-51-S10**

Sheet: 1 of 1

Drilling: Start Date **7/17/2023** Time **1201** | Finish Date **7/17/2023** Time **1204**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes
	1201			**0.0**			0	**Asphalt**	Asphalt top 3"
								CL	CLAY. Brown. Dense and moist.
							1		
	1202			**0.0**				**CL**	Same as above.
							2		
	1203			**0.0**				**CL**	Same as above.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well: See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Sunny, 90°F

Surface Conditions: Asphalt core top 4 inches

Boring/Well Number: **SB-51-S15**

Sheet: 1 of 1

Drilling: Start Date **7/17/2023** Time **1221** | Finish Date **7/17/2023** Time **1231**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes
	1223			**0.0**			0	**Asphalt**	Asphalt top 4"
								SW	SAND. Brown. Loose and moist. Trace brick and mortor pieces.
							1		
	1226			**0.0**				**SW**	Same as above, no trace brick.
							2		
	1230			**0.0**				**SW**	Same as above, trace clay.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

PARSONS **Field Boring Log**

Location of Boring/Well: See Site Plan

Datum:

Job No. 453413 | Client/Site: LAUSD - Canoga Park High School

Drilling Co./Method: NA / Hand Auger

Sampling Method Hand Auger

Weather Conditions: Sunny, 90°F

Surface Conditions: Asphalt core top 3 inches

Boring/Well Number: **SB-51-SW10**

Sheet: 1 of 1

Drilling Start Date: **7/17/2023** Time: **1140**

Drilling Finish Date: **7/17/2023** Time: **1148**

Geologist: Peter Shair

Reviewed By: Justin King

Type of Instrument/Serial No. MiniRAE PID

Calibration Date/Gas: Iso 100 PPM

Sample Container: 1 x 9oz clear jar

Sample Analyses: See COC

Personal Sampling: [ ] Yes [X] No

Person Sampled: Edward Dabsys

Sample No. / Sample Depth	Time	Inches Driven / % Recovery	PID (ppm) BZ	PID (ppm) Sample	FID BZ	FID Sample	Depth in Feet	USCS Soil Type	Notes
	1145			**0.0**			0	**Asphalt**	Asphalt top 3"
								CL	Sandy CLAY. Brown. Loose and moist.
									Trace gravel.
							1		
	1146			**0.0**				**CL**	CLAY. Brown. Loose and moist.
							2		
	1147			**0.0**				**CL**	CLAY. Brown. Dense and moist.
							3	**TD**	
									TD = Total depth augered and sampled.
							4		Borings backfilled with native soil.
							5		
							6		
							7		
							8		
							9		
							10		

APPENDIX G

NO. 770431

ON-HAZARDOUS WASTE DATA FORM

BESI # 353822

Generator's Name and Mailing Address
L. A. UNIFIED SCHOOL DISTRICT
333 SOUTH BEAUDRY AVE., 20TH FLOOR
LOS ANGELES, CA 90017

Generator's Site Address (if different than mailing address)
LAUSD CANOGA PARK HS
6850 TOPANGA CYN BLVD
CANOGA PARK, CA 91303

Generator's Phone: 213-241-3199

Container type removed from site:

☒ Drums ☐ Vacuum Truck ☐ Roll-off Truck ☐ Dump Truck

☐ Other _____

Quantity 001

Container type transported to receiving facility:

☐ Drums ☒ Vacuum Truck ☐ Roll-off Truck ☐ Dump Truck

☐ Other _____

Quantity _____ Volume _____ GAL

WASTE DESCRIPTION NON-HAZARDOUS WATER

GENERATING PROCESS WELL PURGING / DECON WATER

COMPONENTS OF WASTE	PPM	%
1. WATER		99-100%
2. TPH		<1%
3.		
4.		

Waste Profile _____ PROPERTIES: pH 7-10 ☐ SOLID ☒ LIQUID ☐ SLUDGE ☐ SLURRY ☐ OTHER _____

HANDLING INSTRUCTIONS: _____

Generator Printed/Typed Name: Eric Lonnecker, Agent for LAUSD | Signature | Month 4 | Day 28 | Year 23

The Generator certifies that the waste as described is 100% non-hazardous

Transporter 1 Company Name: BELSHIRE | Phone# 949-460-5200

Transporter 1 Printed/Typed Name: Thomas Buck | Signature | Month 4 | Day 28 | Year 23

Transporter Acknowledgment of Receipt of Materials

Transporter 2 Company Name: NIETO & SONS TRUCKING, INC. | Phone# 714-990-6855

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

Transporter Acknowledgment of Receipt of Materials

Designated Facility Name and Site Address
WORLD OIL RECYCLING
2000 N. ALAMEDA ST.
COMPTON, CA 90222

Phone# 310-537-7100

Printed/Typed Name | Signature | Month | Day | Year

Designated Facility Owner or Operator: Certification of receipt of materials covered by this data form.

APPENDIX H

AMERICAN ENVIRONMENTAL TESTING LABORATORY, LLC
2840 North Naomi Street, Burbank, CA 91504 • ELAP# 1541 • LACSD# 10181
Telephone (888) 288-AETL • (818) 845-8200 • www.aetlab.com
A KYZER LABS COMPANY

April 11, 2023

AETL Job No: BED0009
Received Date: 04/03/2023
Project Number: [none]

Parsons
100 West Walnut Street
Pasadena, CA 91124
Telephone: (626) 440-6200

Attention: Justin King

Project Name: Canoga Park High School
Site: 6850 CA-27
Canoga Park, CA 91303

Enclosed please find the results of analyses for samples which were analyzed as specified on the attached chain of custody. If you have any questions concerning this report, please do not hesitate to call.

Checked By: Lily Natanian
Project Manager

Approved By: Hailley Coleman
Project Manager

Table of Contents

Client Project Name: General Soil Testing Project Number: [none]
Work Order Number: BED0009

1	Cover Letter	1
2	Sample Condition on Receipt	3
3	Chain of Custody	4
4	Cooler Receipt Forms	7
5	Case Narrative	8
6	Samples Received	9
7	Positive Hits Summary	14
8	Analytical Results	18
9	Quality Control Results	46
10	Qualifiers and Definitions	60
11	Sub Contracted Analysis	62

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A KYZER LABS COMPANY

Parsons	AETL Job Number:	BED0009	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/11/2023 12:39

Sample Condition on Receipt

Cooler ID: Default Cooler **Temperature: 5.5 °C**

Are the COCs Correct	Y		
Labels Legible	Y	Containers In Good Condition	Y
COC/Labels Agree	Y	Samples Preserved Properly	Y
Sufficient Sample Volume	Y	Sufficient Holding Time for all Tests	Y
Sample Labels intact	Y	Received on Ice	Y

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

American Environmental Testing Laboratory Inc.
2834 & 2908 North Naomi Street, Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

CHAIN OF CUSTODY RECORD

108488

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut St. Pasadena, CA 91124
PHONE / FAX: (310) 809-5743
PROJECT NAME: Canoga Park High School
PROJECT #:
SITE NAME AND ADDRESS: 6850 CA-27, Canoga Park, CA
PO #: 91303

AETL JOB No. BE-D0009

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1	SB-26-D0.5	BE-D0009 01	4/3/2023	1217	Soil	1 4oz + 2 x 2oz	NONE
2	SB-26-D0.5-DUP	02		1222			
3	SB-26-D2.0	03		1226			
4	SB-26-D3.0	04		1230			
5	SB-24-D0.5	05		1027		1 x 4oz	
6	SB-24-D2.0	06		1033			
7	SB-24-D3.0	07		1040			
8	SB-23-D0.5	08		0935			
9	SB-23-D2.0	09		0939			
10	SB-23-D3.0	10		0945			
11	SB-25-D0.5	11		1000			
12	SB-25-D2.0	12		1005			
13	SB-25-D3.0	13		1011			
14	SB-27-D0.5	14		1055			
15	SB-27-D2.0	15		1103			

ANALYSIS REQUESTED

	Lead (6010B)	Arsenic (6020)	OCPs (8081A)	PCBs (8270C)	Asbestos (PLM)	PAHs (8270C)	Cr VI (7199)	Cd + Ni (6010B)	Mercury (7470A)	TEST INSTRUCTIONS & COMMENTS
1	X	X	X	X	X	X	X	X	X	
2	X	X	X	X	X	X	X	X	X	Duplicate
3										Hold
4										Hold
5	X	X	X	X						
6										Hold
7										Hold
8	X	X	X							
9										Hold
10										Hold
11	X	X	X							
12										Hold
13										Hold
14	X	X	X							
15										Hold

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y / N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

TURN AROUND TIME

☑ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY ☑ PDF ☐ GEOTRACKER (GLOBAL ID) _____ ☐ OTHER (PLEASE SPECIFY) _____

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: E. Ochoa	Signature:	Signature:
Printed Name: Edward Ochoa	Printed Name:	Printed Name:
Date: 4/3/2023 Time: 1545	Date: Time:	Date: Time:
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: AETL 3.**
Signature:	Signature:	Signature:
Printed Name:	Printed Name:	Printed Name: Sirena Arreguin
Date: Time:	Date: Time:	Date: 4/3/2023 Time: 15:45

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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CHAIN OF CUSTODY RECORD

108492

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut St. Pasadena, CA 91124
PHONE
FAX: (310) 809-5793
PROJECT NAME: Canoga Park Highschool
PROJECT #
SITE NAME AND ADDRESS: 6850 CA-27, Canoga Park, CA 91303
PO #

AETL JOB No. BED0009

ANALYSIS REQUESTED

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	OCPs (8081A)	TEST INSTRUCTIONS & COMMENTS
1	SB-27-D3.0	BED0009-16	4/3/2023	1109	Soil	1x9oz	NONE				Hold
2	SB-29-D0.5	17		1155				X	X	X	
3	SB-29-D2.0	18		1201							Hold
4	SB-29-D3.0	19		1204							Hold
5	SB-18-D0.5	20		1254				X	X	X	
6	SB-18-D2.0	21		1259							Hold
7	SB-18-D3.0	22		1303							Hold
8	SB-15-D0.5	23		1324				X	X	X	
9	SB-15-D2.0	24		1328							Hold
10	SB-15-D3.0	25		1332							Hold
11	SB-16-D0.5	26		1339				X	X	X	
12	SB-16-D0.5 DUP	27		1344				X	X	X	Duplicate
13	SB-16-D2.0	28		1347							Hold
14	SB-16-D3.0	29		1351							Hold
15	SB-54-D0.5	30		1405				X	X	X	

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y / N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: [signature]	Signature:	Signature:
Printed Name: Edward Dabys	Printed Name:	Printed Name:
Date: 4/3/2023 Time: 1545	Date: Time:	Date: Time:

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: 3.
Signature:	Signature:	Signature: [signature] AETL
Printed Name:	Printed Name:	Printed Name: Greter Ginez Saasin
Date: Time:	Date: Time:	Date: 4/3/23 Time: 15:45

TURN AROUND TIME

☑ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY
☑ PDF
☐ GEOTRACKER (GLOBAL ID) _____
☐ OTHER (PLEASE SPECIFY) _____

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

American Environmental Testing Laboratory Inc.

2834 & 2908 North Naomi Street, Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

CHAIN OF CUSTODY RECORD

108489

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut St. Pasadena, CA 91124
PHONE: (310) 809-5793
FAX:
PROJECT NAME: Canoga Park High School
PROJECT #:
SITE NAME AND ADDRESS: 6850 CA-27, Canoga Park, CA 91303
PO #:
AETL JOB No.: BED0009
Page 3 of 3

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	OCPs (8081A)	TEST INSTRUCTIONS & COMMENTS
1	SB-54-D2.0	BED0009 31	4/3/2023	1400	Soil	1x 9oz	NONE				
2	SB-54-D3.0	32		1412							Hold
3	SB-21-D0.5	33		1425				X	X	X	Hold
4	SB-21-D2.0	34		1428							
5	SB-21-D3.0	35		1432							Hold
6											Hold
7											
8											
9											
10											
11											
12											
13											
14											
15											

E. Galvez

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y / N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

TURN AROUND TIME

☑ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY ☑ PDF ☐ GEOTRACKER (GLOBAL ID) _____ ☐ OTHER (PLEASE SPECIFY) _____

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: E. Galvez	Signature:	Signature:
Printed Name: Edward Galvez	Printed Name:	Printed Name:
Date: 4/3/2023 Time: 1545	Date: Time:	Date: Time:
RECEIVED BY: 1.	**RECEIVED BY:** 2.	**RECEIVED BY LABORATORY:** 3.
Signature:	Signature:	Signature: AETL
Printed Name:	Printed Name:	Printed Name:
Date: Time:	Date: Time:	Date: 4/3/23 Time: 1545

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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COOLER RECEIPT FORM

Client Name: Parsons

Project Name: Canoga Park High School Project No.:

AETL Job Number: BED0009

Date Received: 04-03-23 Received by: Greta G

Carrier: ☑ AETL Courier ☐ Client ☐ GSL ☐ FedEx ☐ UPS
☐Others:

Samples were received in: ☑ Cooler (__2_____) ☐ Other (Specify)**:**

Sample Container Temperature: __5.5__ °C IR Gun S/N: 51941911MV

Type of sample containers: ☐ VOA, ☐ Glass bottles, ☑Wide mouth jars, ☐HDPE bottles, ☐ Metal sleeves, ☐ Acetate sleeves, ☐ 5035 Kit: ☐ AETL or ☐ Client, ☐ Tedlar Bags, Summa Canister: ☐ 6L, ☐ 3L, ☐ 1L, Others (Specify): _____

How are samples preserved: ☐ None, ☑ Ice, ☐ Blue Ice, ☐ Dry Ice
☑ None, ☐ HNO_3, ☐ NaOH, ☐ ZnOAc, ☐ HCl, ☐ $Na_2S_2O_3$, ☐ MeOH, ☐ $NaHSO_4$
☐ Other (Specify):

	Yes	No	N/A	Note or Comment
1. Are the COCs Correct?	✔			
2. Are Sample labels legible & indelible ink?	✔			
3. Do samples match the COC?	✔			
4. Are the required analyses clear?	✔			
5. Is there enough samples for required analysis?	✔			
6. Does cooler or samples have custody seal(s)?			✔	
7. Are sample containers in good condition?	✔			
8. Are samples preserved?	✔			
9. Are samples preserved properly for the intended analysis?	✔			
10. Are the VOAs free of headspace? See footnote.			✔	
11. Are the jars free of headspace?			✔	

* = see note below. N/A = Not Applicable

PLEASE NOTE ALL SAMPLES WILL BE DISPOSED OF 30 DAYS AFTER RECEIVING DATE. IF AETL IS INFORMED OTHERWISE, THERE WILL BE A STORAGE CHARGE PER SAMPLE PER MONTH FOR ANY SAMPLE HELD BEYOND 30 DAYS.

◯ Example maximum headspace bubble size; acceptance criteria not to exceed 5-6 mm in diameter.

For headspace bubbles exceeding 6 mm in diameter, sample receiving will tag the VOA and notify the Project Manager. The Project Manager will contact client for Analyze or Resample instructions.

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Parsons	AETL Job Number:	BED0009	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/11/2023 12:39

Case Narrative

The following "Sample Received" Section summarizes the samples received and associated analyses requested as specified on the enclosed chain of custody.

Results as reported by the laboratory apply only to 1) the items tested, 2) as the samples are received, and 3) the accuracy of information provided. Information supplied by the customer that may affect validity of results and may be contained in this report include Project Name/Number, Site Location, Sample Locations, Sampling Dates/Times, Sample ID, Sample Preservation, Sample Matrix, Sample Properties, Field Blanks, Field Duplicates, Field Spikes, and Site Historical Data.

Accreditation applies only to the test methods listed on each scope of accreditation held by the laboratory; certifications held by the laboratory may not apply to results supplied in this report.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

Qualifiers are noted in the report.

The samples were subcontracted to Orange Coast Analytical, Inc. for EPA 6020. Please see attached report for results.

The samples were subcontracted to Asset Laboratories for EPA 7199. Please see attached report for results.

The samples were subcontracted to AIH Laboratory for EPA-600R-93/116. Please see attached report for results.

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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Parsons	AETL Job Number:	BED0009	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 12:39	

Samples Received

AETL received the following samples on 04/03/2023 with the following specifications

Client ID: SB-26-D0.5 **Sample Date:** 04/3/2023 12:17

Lab ID: BED0009-01 **Matrix:** Soil **Quantity of Containers:** 4

Method	Analyte	Units	TAT
EPA 600R-93/116	Asbestos by Polarized Light Microscopy Analysis	Percent	5
EPA 6010B	Nickel, total by ICP	mg/kg	5
EPA 6010B	Lead, total by ICP	mg/kg	5
EPA 6010B	Cadmium, total by ICP	mg/kg	5
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5
EPA 7199	Chromium Hexavalent by Ion Chromatography	mg/kg	5
EPA 7471A	Mercury Cold-Vapor Technique	mg/kg	5
EPA 8081A	Organochlorine Pesticides by GC/ECD	ug/kg	5
EPA 8082	Polychlorinated Biphenyls (PCBs)	ug/kg	5
EPA 8270C-SIM	PAH Compounds by GC/MS SIM (Modified 8270C)	mg/kg	5

Client ID: SB-26-D0.5-Dup **Sample Date:** 04/3/2023 12:22

Lab ID: BED0009-02 **Matrix:** Soil **Quantity of Containers:** 4

Method	Analyte	Units	TAT
EPA 600R-93/116	Asbestos by Polarized Light Microscopy Analysis	Percent	5
EPA 6010B	Cadmium, total by ICP	mg/kg	5
EPA 6010B	Lead, total by ICP	mg/kg	5
EPA 6010B	Nickel, total by ICP	mg/kg	5
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5
EPA 7199	Chromium Hexavalent by Ion Chromatography	mg/kg	5
EPA 7471A	Mercury Cold-Vapor Technique	mg/kg	5
EPA 8081A	Organochlorine Pesticides by GC/ECD	ug/kg	5
EPA 8082	Polychlorinated Biphenyls (PCBs)	ug/kg	5
EPA 8270C-SIM	PAH Compounds by GC/MS SIM (Modified 8270C)	mg/kg	5

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Parsons	AETL Job Number:	BED0009	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 12:39	

Samples Received

(Continued)

AETL received the following samples on 04/03/2023 with the following specifications

Client ID: SB-24-D0.5 **Sample Date:** 04/3/2023 12:27

Lab ID: BED0009-05 **Matrix:** Soil **Quantity of Containers:** 2

Method	Analyte	Units	TAT
EPA 6010B	Lead, total by ICP	mg/kg	5
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5
EPA 8081A	Organochlorine Pesticides by GC/ECD	ug/kg	5
EPA 8082	Polychlorinated Biphenyls (PCBs)	ug/kg	5

Client ID: SB-23-D0.5 **Sample Date:** 04/3/2023 9:35

Lab ID: BED0009-08 **Matrix:** Soil **Quantity of Containers:** 2

Method	Analyte	Units	TAT
EPA 6010B	Lead, total by ICP	mg/kg	5
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5
EPA 8081A	Organochlorine Pesticides by GC/ECD	ug/kg	5

Client ID: SB-25-D0.5 **Sample Date:** 04/3/2023 10:00

Lab ID: BED0009-11 **Matrix:** Soil **Quantity of Containers:** 2

Method	Analyte	Units	TAT
EPA 6010B	Lead, total by ICP	mg/kg	5
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5
EPA 8081A	Organochlorine Pesticides by GC/ECD	ug/kg	5

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Parsons	AETL Job Number:	BED0009	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 12:39	

Samples Received

(Continued)

AETL received the following samples on 04/03/2023 with the following specifications

Client ID: SB-27-D0.5 **Sample Date:** 04/3/2023 10:55

Lab ID: BED0009-14 **Matrix:** Soil **Quantity of Containers:** 2

Method	Analyte	Units	TAT
EPA 6010B	Lead, total by ICP	mg/kg	5
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5
EPA 8081A	Organochlorine Pesticides by GC/ECD	ug/kg	5

Client ID: SB-29-D0.5 **Sample Date:** 04/3/2023 11:55

Lab ID: BED0009-17 **Matrix:** Soil **Quantity of Containers:** 2

Method	Analyte	Units	TAT
EPA 6010B	Lead, total by ICP	mg/kg	5
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5
EPA 8081A	Organochlorine Pesticides by GC/ECD	ug/kg	5

Client ID: SB-18-D0.5 **Sample Date:** 04/3/2023 12:54

Lab ID: BED0009-20 **Matrix:** Soil **Quantity of Containers:** 2

Method	Analyte	Units	TAT
EPA 6010B	Lead, total by ICP	mg/kg	5
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5
EPA 8081A	Organochlorine Pesticides by GC/ECD	ug/kg	5

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Parsons	AETL Job Number:	BED0009	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 12:39	

Samples Received

(Continued)

AETL received the following samples on 04/03/2023 with the following specifications

Client ID: SB-15-D0.5 **Sample Date:** 04/3/2023 13:24

Lab ID: BED0009-23 **Matrix:** Soil **Quantity of Containers:** 2

Method	Analyte	Units	TAT
EPA 6010B	Lead, total by ICP	mg/kg	5
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5
EPA 8081A	Organochlorine Pesticides by GC/ECD	ug/kg	5

Client ID: SB-16-D0.5 **Sample Date:** 04/3/2023 13:39

Lab ID: BED0009-26 **Matrix:** Soil **Quantity of Containers:** 2

Method	Analyte	Units	TAT
EPA 6010B	Lead, total by ICP	mg/kg	5
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5
EPA 8081A	Organochlorine Pesticides by GC/ECD	ug/kg	5

Client ID: SB-16-D0.5-Dup **Sample Date:** 04/3/2023 13:44

Lab ID: BED0009-27 **Matrix:** Soil **Quantity of Containers:** 2

Method	Analyte	Units	TAT
EPA 6010B	Lead, total by ICP	mg/kg	5
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5
EPA 8081A	Organochlorine Pesticides by GC/ECD	ug/kg	5

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Parsons	AETL Job Number:	BED0009	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 12:39	

Samples Received
(Continued)

AETL received the following samples on 04/03/2023 with the following specifications

Client ID: SB-54-D0.5 **Sample Date:** 04/3/2023 14:05

Lab ID: BED0009-30 **Matrix:** Soil **Quantity of Containers:** 2

Method	Analyte	Units	TAT
EPA 6010B	Lead, total by ICP	mg/kg	5
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5
EPA 8081A	Organochlorine Pesticides by GC/ECD	ug/kg	5

Client ID: SB-21-D0.5 **Sample Date:** 04/3/2023 14:25

Lab ID: BED0009-33 **Matrix:** Soil **Quantity of Containers:** 2

Method	Analyte	Units	TAT
EPA 6010B	Lead, total by ICP	mg/kg	5
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5
EPA 8081A	Organochlorine Pesticides by GC/ECD	ug/kg	5

Total Number of Samples received: 13

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Parsons	AETL Job Number:	BED0009	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 12:39	

Positive Hits Summary

Lab ID	Client ID				Sampled
BED0009-01	SB-26-D0.5				04/03/2023 12:17
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	11.5		mg/kg	04/06/2023 12:36
EPA 6010B	Nickel	18.9		mg/kg	04/06/2023 12:36
EPA 8081A	4,4'-DDE (DDE)	0.565	J	ug/kg	04/07/2023 18:12
EPA 8081A	4,4'-DDT (DDT)	0.725	J	ug/kg	04/07/2023 18:12

Lab ID	Client ID				Sampled
BED0009-02	SB-26-D0.5-Dup				04/03/2023 12:22
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	12.7		mg/kg	04/06/2023 12:51
EPA 6010B	Nickel	15.9		mg/kg	04/06/2023 12:51
EPA 7471A	Mercury	0.697		mg/kg	04/05/2023 12:59
EPA 8081A	4,4'-DDE (DDE)	0.640	J	ug/kg	04/07/2023 18:29
EPA 8081A	4,4'-DDT (DDT)	0.727	J	ug/kg	04/07/2023 18:29

Lab ID	Client ID				Sampled
BED0009-05	SB-24-D0.5				04/03/2023 12:27
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	5.22		mg/kg	04/06/2023 13:11
EPA 8081A	4,4'-DDD (DDD)	0.154	J	ug/kg	04/07/2023 18:46
EPA 8081A	Dieldrin	2.32		ug/kg	04/07/2023 18:46

Lab ID	Client ID				Sampled
BED0009-08	SB-23-D0.5				04/03/2023 09:35
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	10.3		mg/kg	04/06/2023 13:14
EPA 8081A	alpha-Chlordane	1.38	J	ug/kg	04/07/2023 19:03
EPA 8081A	gamma-Chlordane	1.50	J	ug/kg	04/07/2023 19:03
EPA 8081A	Chlordane (Total)	2.88	J	ug/kg	04/07/2023 19:03
EPA 8081A	Dieldrin	1.32	J	ug/kg	04/07/2023 19:03

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Parsons	AETL Job Number:	BED0009	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 12:39	

Positive Hits Summary
(Continued)

Lab ID	Client ID				Sampled
BED0009-11	SB-25-D0.5				04/03/2023 10:00
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	35.0		mg/kg	04/06/2023 13:17
EPA 8081A	alpha-Chlordane	0.928	J	ug/kg	04/07/2023 19:20
EPA 8081A	gamma-Chlordane	0.880	J	ug/kg	04/07/2023 19:20
EPA 8081A	Chlordane (Total)	1.81	J	ug/kg	04/07/2023 19:20
EPA 8081A	4,4'-DDE (DDE)	0.182	J	ug/kg	04/07/2023 19:20
EPA 8081A	4,4'-DDT (DDT)	1.38		ug/kg	04/07/2023 19:20
EPA 8081A	Dieldrin	0.203	J	ug/kg	04/07/2023 19:20

Lab ID	Client ID				Sampled
BED0009-14	SB-27-D0.5				04/03/2023 10:55
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	8.47		mg/kg	04/06/2023 13:20
EPA 8081A	gamma-Chlordane	0.114	J	ug/kg	04/07/2023 19:37
EPA 8081A	4,4'-DDE (DDE)	0.211	J	ug/kg	04/07/2023 19:37
EPA 8081A	4,4'-DDT (DDT)	1.70		ug/kg	04/07/2023 19:37

Lab ID	Client ID				Sampled
BED0009-17	SB-29-D0.5				04/03/2023 11:55
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	17.5		mg/kg	04/06/2023 13:22
EPA 8081A	alpha-Chlordane	0.654	J	ug/kg	04/07/2023 20:11
EPA 8081A	gamma-Chlordane	0.611	J	ug/kg	04/07/2023 20:11
EPA 8081A	Chlordane (Total)	1.26	J	ug/kg	04/07/2023 20:11
EPA 8081A	4,4'-DDD (DDD)	0.971	J	ug/kg	04/07/2023 20:11
EPA 8081A	4,4'-DDE (DDE)	1.38		ug/kg	04/07/2023 20:11
EPA 8081A	4,4'-DDT (DDT)	0.744	J	ug/kg	04/07/2023 20:11
EPA 8081A	Dieldrin	0.622	J	ug/kg	04/07/2023 20:11

Lab ID	Client ID				Sampled
BED0009-20	SB-18-D0.5				04/03/2023 12:54
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	6.39		mg/kg	04/06/2023 13:25

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Parsons	AETL Job Number:	BED0009	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/11/2023 12:39

Positive Hits Summary
(Continued)

Lab ID	Client ID				Sampled
BED0009-23	SB-15-D0.5				04/03/2023 13:24
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	5.35		mg/kg	04/06/2023 13:28

Lab ID	Client ID				Sampled
BED0009-26	SB-16-D0.5				04/03/2023 13:39
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	3.93	J	mg/kg	04/06/2023 13:31
EPA 8081A	alpha-Chlordane	1.08		ug/kg	04/07/2023 21:02
EPA 8081A	gamma-Chlordane	0.989	J	ug/kg	04/07/2023 21:02
EPA 8081A	Chlordane (Total)	2.07		ug/kg	04/07/2023 21:02
EPA 8081A	4,4'-DDE (DDE)	0.580	J	ug/kg	04/07/2023 21:02
EPA 8081A	4,4'-DDT (DDT)	1.41		ug/kg	04/07/2023 21:02

Lab ID	Client ID				Sampled
BED0009-27	SB-16-D0.5-Dup				04/03/2023 13:44
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	18.7		mg/kg	04/06/2023 13:39
EPA 8081A	alpha-Chlordane	1.23		ug/kg	04/07/2023 21:19
EPA 8081A	gamma-Chlordane	1.06		ug/kg	04/07/2023 21:19
EPA 8081A	Chlordane (Total)	2.29		ug/kg	04/07/2023 21:19
EPA 8081A	4,4'-DDE (DDE)	0.427	J	ug/kg	04/07/2023 21:19
EPA 8081A	4,4'-DDT (DDT)	1.83		ug/kg	04/07/2023 21:19

Lab ID	Client ID				Sampled
BED0009-30	SB-54-D0.5				04/03/2023 14:05
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	4.13	J	mg/kg	04/06/2023 13:42

Lab ID	Client ID				Sampled
BED0009-33	SB-21-D0.5				04/03/2023 14:25
Method	Analyte	Result	Qualifier	Unit	Analyzed

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A KYZER LABS COMPANY

Parsons	AETL Job Number:	BED0009	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/11/2023 12:39

Positive Hits Summary
(Continued)

Lab ID	Client ID				Sampled
BED0009-33	SB-21-D0.5				04/03/2023 14:25
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	**Lead**	**39.1**		**mg/kg**	**04/06/2023 13:45**
EPA 8081A	**alpha-Chlordane**	**0.519**	**J**	**ug/kg**	**04/07/2023 21:53**
EPA 8081A	**gamma-Chlordane**	**0.353**	**J**	**ug/kg**	**04/07/2023 21:53**
EPA 8081A	**4,4'-DDD (DDD)**	**0.120**	**J**	**ug/kg**	**04/07/2023 21:53**
EPA 8081A	**4,4'-DDE (DDE)**	**1.09**		**ug/kg**	**04/07/2023 21:53**
EPA 8081A	**4,4'-DDT (DDT)**	**1.12**		**ug/kg**	**04/07/2023 21:53**
EPA 8081A	**Dieldrin**	**0.784**	**J**	**ug/kg**	**04/07/2023 21:53**

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100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 12:39	

Analytical Results

Client ID: SB-26-D0.5
Lab ID: BED0009-01 (Soil) **Sampled: 04/03/23 12:17**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Cadmium	ND		1	1.29	2.48	mg/kg	04/05/23 10:05	04/06/23 12:36	B3D0044	DT	3050B
Lead	**11.5**		1	0.550	5.00	mg/kg	04/05/23 10:05	04/06/23 12:36	B3D0044	DT	3050B
Nickel	**18.9**		1	2.48	4.95	mg/kg	04/05/23 10:05	04/06/23 12:36	B3D0044	DT	3050B
Method: EPA 7471A											
Mercury	ND		1	0.0180	0.170	mg/kg	04/05/23 08:31	04/05/23 12:51	B3D0036	LE	7471A
Polynuclear Aromatic Hydrocarbons											
Method: EPA 8270C-SIM											
2-Methylnaphthalene	ND		1	0.00199	0.0124	mg/kg	04/07/23 10:32	04/07/23 15:15	B3D0076	TTN	3550B
Acenaphthene	ND		1	0.0108	0.0249	mg/kg	04/07/23 10:32	04/07/23 15:15	B3D0076	TTN	3550B
Acenaphthylene	ND		1	0.00933	0.0249	mg/kg	04/07/23 10:32	04/07/23 15:15	B3D0076	TTN	3550B
Anthracene	ND		1	0.0112	0.0249	mg/kg	04/07/23 10:32	04/07/23 15:15	B3D0076	TTN	3550B
Benzo(a)anthracene	ND		1	0.00892	0.0249	mg/kg	04/07/23 10:32	04/07/23 15:15	B3D0076	TTN	3550B
Benzo(a)pyrene	ND		1	0.0121	0.0249	mg/kg	04/07/23 10:32	04/07/23 15:15	B3D0076	TTN	3550B
Benzo(b)fluoranthene	ND		1	0.00761	0.0249	mg/kg	04/07/23 10:32	04/07/23 15:15	B3D0076	TTN	3550B
Benzo(g,h,i)perylene	ND		1	0.0132	0.0249	mg/kg	04/07/23 10:32	04/07/23 15:15	B3D0076	TTN	3550B
Benzo(k)fluoranthene	ND		1	0.0119	0.0249	mg/kg	04/07/23 10:32	04/07/23 15:15	B3D0076	TTN	3550B
Chrysene	ND		1	0.00847	0.0249	mg/kg	04/07/23 10:32	04/07/23 15:15	B3D0076	TTN	3550B
Dibenzo(a,h)anthracene	ND		1	0.0167	0.0249	mg/kg	04/07/23 10:32	04/07/23 15:15	B3D0076	TTN	3550B
Fluoranthene	ND		1	0.0121	0.0249	mg/kg	04/07/23 10:32	04/07/23 15:15	B3D0076	TTN	3550B
Fluorene	ND		1	0.0115	0.0249	mg/kg	04/07/23 10:32	04/07/23 15:15	B3D0076	TTN	3550B
Indeno(1,2,3-cd)pyrene	ND		1	0.0170	0.0249	mg/kg	04/07/23 10:32	04/07/23 15:15	B3D0076	TTN	3550B
Naphthalene	ND		1	0.00932	0.0249	mg/kg	04/07/23 10:32	04/07/23 15:15	B3D0076	TTN	3550B
Phenanthrene	ND		1	0.0103	0.0249	mg/kg	04/07/23 10:32	04/07/23 15:15	B3D0076	TTN	3550B
Pyrene	ND		1	0.00977	0.0249	mg/kg	04/07/23 10:32	04/07/23 15:15	B3D0076	TTN	3550B
	Recovery				Acceptance Criteria						
Surrogate: p-Terphenyl-D14	*52.5%*				*40-130*		04/07/23 10:32	*04/07/23 15:15*	B3D0076	*TTN*	3550B
Organochlorine Pesticides											

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Parsons	AETL Job Number:	BED0009	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 12:39	

Analytical Results

Client ID: SB-26-D0.5

Lab ID: BED0009-01 (Soil) **Sampled: 04/03/23 12:17**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Organochlorine Pesticides (Continued)											
Method: EPA 8081A											
Aldrin	ND		1	0.0900	1.00	ug/kg	04/06/23 07:57	04/07/23 18:12	B3D0050	ATS	3550B
alpha-Chlordane	ND		1	0.121	1.00	ug/kg	04/06/23 07:57	04/07/23 18:12	B3D0050	ATS	3550B
gamma-Chlordane	ND		1	0.114	1.00	ug/kg	04/06/23 07:57	04/07/23 18:12	B3D0050	ATS	3550B
Chlordane (Total)	ND		1	1.00	2.00	ug/kg	04/06/23 07:57	04/07/23 18:12	B3D0050	ATS	3550B
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	ND		1	0.0620	1.00	ug/kg	04/06/23 07:57	04/07/23 18:12	B3D0050	ATS	3550B
alpha-Hexachlorocyclohexane (Alpha-BHC)	ND		1	0.0710	1.00	ug/kg	04/06/23 07:57	04/07/23 18:12	B3D0050	ATS	3550B
beta-Hexachlorocyclohexane (Betta-BHC)	ND		1	0.217	1.00	ug/kg	04/06/23 07:57	04/07/23 18:12	B3D0050	ATS	3550B
delta-Hexachlorocyclohexane (Delta-BHC)	ND		1	0.0880	1.00	ug/kg	04/06/23 07:57	04/07/23 18:12	B3D0050	ATS	3550B
4,4'-DDD (DDD)	ND		1	0.0980	1.00	ug/kg	04/06/23 07:57	04/07/23 18:12	B3D0050	ATS	3550B
4,4'-DDE (DDE)	**0.565**	J	1	0.0930	1.00	ug/kg	04/06/23 07:57	04/07/23 18:12	B3D0050	ATS	3550B
4,4'-DDT (DDT)	**0.725**	J	1	0.235	1.00	ug/kg	04/06/23 07:57	04/07/23 18:12	B3D0050	ATS	3550B
Dieldrin	ND		1	0.0950	1.00	ug/kg	04/06/23 07:57	04/07/23 18:12	B3D0050	ATS	3550B
Endrin	ND		1	0.106	1.00	ug/kg	04/06/23 07:57	04/07/23 18:12	B3D0050	ATS	3550B
Endrin aldehyde	ND		1	0.117	1.00	ug/kg	04/06/23 07:57	04/07/23 18:12	B3D0050	ATS	3550B
Endrin ketone	ND		1	0.122	1.00	ug/kg	04/06/23 07:57	04/07/23 18:12	B3D0050	ATS	3550B
Endosulfan 1	ND		1	0.115	1.00	ug/kg	04/06/23 07:57	04/07/23 18:12	B3D0050	ATS	3550B
Endosulfan 11	ND		1	0.177	1.00	ug/kg	04/06/23 07:57	04/07/23 18:12	B3D0050	ATS	3550B
Endosulfan sulfate	ND		1	0.0470	1.00	ug/kg	04/06/23 07:57	04/07/23 18:12	B3D0050	ATS	3550B
Heptachlor	ND		1	0.206	1.00	ug/kg	04/06/23 07:57	04/07/23 18:12	B3D0050	ATS	3550B
Heptachlor epoxide	ND		1	0.101	1.00	ug/kg	04/06/23 07:57	04/07/23 18:12	B3D0050	ATS	3550B
Methoxychlor	ND		1	0.310	1.00	ug/kg	04/06/23 07:57	04/07/23 18:12	B3D0050	ATS	3550B
Toxaphene	ND		1	4.10	50.0	ug/kg	04/06/23 07:57	04/07/23 18:12	B3D0050	ATS	3550B
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*53.1%*				*30-150*		04/06/23 07:57	*04/07/23 18:12*	B3D0050	*ATS*	3550B
Surrogate: Tetrachloro-m-xylene	*56.8%*				*30-150*		04/06/23 07:57	*04/07/23 18:12*	B3D0050	*ATS*	3550B
PCBs											
Method: EPA 8082											
Aroclor-1016 (PCB-1016)	ND		1	11.6	25.0	ug/kg	04/06/23 08:18	04/06/23 12:02	B3D0052	BC	3550B
Aroclor-1221 (PCB-1221)	ND		1	8.11	25.0	ug/kg	04/06/23 08:18	04/06/23 12:02	B3D0052	BC	3550B

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100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 12:39	

Analytical Results

Client ID: SB-26-D0.5

Lab ID: BED0009-01 (Soil) **Sampled: 04/03/23 12:17**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
PCBs (Continued)											
Aroclor-1232 (PCB-1232)	ND		1	15.2	25.0	ug/kg	04/06/23 08:18	04/06/23 12:02	B3D0052	BC	3550B
Aroclor-1242 (PCB-1242)	ND		1	5.25	25.0	ug/kg	04/06/23 08:18	04/06/23 12:02	B3D0052	BC	3550B
Aroclor-1248 (PCB-1248)	ND		1	11.0	25.0	ug/kg	04/06/23 08:18	04/06/23 12:02	B3D0052	BC	3550B
Aroclor-1254 (PCB-1254)	ND		1	11.9	25.0	ug/kg	04/06/23 08:18	04/06/23 12:02	B3D0052	BC	3550B
Aroclor-1260 (PCB-1260)	ND		1	6.02	25.0	ug/kg	04/06/23 08:18	04/06/23 12:02	B3D0052	BC	3550B
Aroclor-1262 (PCB-1262)	ND		1	20.0	50.0	ug/kg	04/06/23 08:18	04/06/23 12:02	B3D0052	BC	3550B
Aroclor-1268 (PCB-1268)	ND		1	20.0	50.0	ug/kg	04/06/23 08:18	04/06/23 12:02	B3D0052	BC	3550B
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*83.2%*				*50-150*		04/06/23 08:18	*04/06/23 12:02*	B3D0052	*BC*	3550B
Surrogate: Tetrachloro-m-xylene	*56.5%*				*50-150*		04/06/23 08:18	*04/06/23 12:02*	B3D0052	*BC*	3550B

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Parsons	AETL Job Number:	BED0009	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 12:39	

Analytical Results

Client ID: SB-26-D0.5-Dup
Lab ID: BED0009-02 (Soil) **Sampled:** 04/03/23 12:22

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Cadmium	ND		1	1.25	2.40	mg/kg	04/05/23 10:05	04/06/23 12:51	B3D0044	DT	3050B
Lead	**12.7**		1	0.550	5.00	mg/kg	04/05/23 10:05	04/06/23 12:51	B3D0044	DT	3050B
Nickel	**15.9**		1	2.40	4.81	mg/kg	04/05/23 10:05	04/06/23 12:51	B3D0044	DT	3050B
Method: EPA 7471A											
Mercury	**0.697**		1	0.0180	0.170	mg/kg	04/05/23 08:31	04/05/23 12:59	B3D0036	LE	7471A
Polynuclear Aromatic Hydrocarbons											
Method: EPA 8270C-SIM											
2-Methylnaphthalene	ND		1	0.00200	0.0125	mg/kg	04/07/23 10:32	04/07/23 15:47	B3D0076	TTN	3550B
Acenaphthene	ND		1	0.0108	0.0250	mg/kg	04/07/23 10:32	04/07/23 15:47	B3D0076	TTN	3550B
Acenaphthylene	ND		1	0.00937	0.0250	mg/kg	04/07/23 10:32	04/07/23 15:47	B3D0076	TTN	3550B
Anthracene	ND		1	0.0112	0.0250	mg/kg	04/07/23 10:32	04/07/23 15:47	B3D0076	TTN	3550B
Benzo(a)anthracene	ND		1	0.00896	0.0250	mg/kg	04/07/23 10:32	04/07/23 15:47	B3D0076	TTN	3550B
Benzo(a)pyrene	ND		1	0.0121	0.0250	mg/kg	04/07/23 10:32	04/07/23 15:47	B3D0076	TTN	3550B
Benzo(b)fluoranthene	ND		1	0.00764	0.0250	mg/kg	04/07/23 10:32	04/07/23 15:47	B3D0076	TTN	3550B
Benzo(g,h,i)perylene	ND		1	0.0132	0.0250	mg/kg	04/07/23 10:32	04/07/23 15:47	B3D0076	TTN	3550B
Benzo(k)fluoranthene	ND		1	0.0119	0.0250	mg/kg	04/07/23 10:32	04/07/23 15:47	B3D0076	TTN	3550B
Chrysene	ND		1	0.00851	0.0250	mg/kg	04/07/23 10:32	04/07/23 15:47	B3D0076	TTN	3550B
Dibenzo(a,h)anthracene	ND		1	0.0168	0.0250	mg/kg	04/07/23 10:32	04/07/23 15:47	B3D0076	TTN	3550B
Fluoranthene	ND		1	0.0121	0.0250	mg/kg	04/07/23 10:32	04/07/23 15:47	B3D0076	TTN	3550B
Fluorene	ND		1	0.0115	0.0250	mg/kg	04/07/23 10:32	04/07/23 15:47	B3D0076	TTN	3550B
Indeno(1,2,3-cd)pyrene	ND		1	0.0171	0.0250	mg/kg	04/07/23 10:32	04/07/23 15:47	B3D0076	TTN	3550B
Naphthalene	ND		1	0.00936	0.0250	mg/kg	04/07/23 10:32	04/07/23 15:47	B3D0076	TTN	3550B
Phenanthrene	ND		1	0.0103	0.0250	mg/kg	04/07/23 10:32	04/07/23 15:47	B3D0076	TTN	3550B
Pyrene	ND		1	0.00981	0.0250	mg/kg	04/07/23 10:32	04/07/23 15:47	B3D0076	TTN	3550B
	Recovery				Acceptance Criteria						
Surrogate: p-Terphenyl-D14	*50.0%*				*40-130*		04/07/23 10:32	*04/07/23 15:47*	B3D0076	*TTN*	3550B
Organochlorine Pesticides											

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Parsons	AETL Job Number:	BED0009	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 12:39	

Analytical Results

Client ID: SB-26-D0.5-Dup
Lab ID: BED0009-02 (Soil) **Sampled:** 04/03/23 12:22

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Organochlorine Pesticides (Continued)											
Method: EPA 8081A											
Aldrin	ND		1	0.0900	1.00	ug/kg	04/06/23 07:57	04/07/23 18:29	B3D0050	ATS	3550B
alpha-Chlordane	ND		1	0.121	1.00	ug/kg	04/06/23 07:57	04/07/23 18:29	B3D0050	ATS	3550B
gamma-Chlordane	ND		1	0.114	1.00	ug/kg	04/06/23 07:57	04/07/23 18:29	B3D0050	ATS	3550B
Chlordane (Total)	ND		1	1.00	2.00	ug/kg	04/06/23 07:57	04/07/23 18:29	B3D0050	ATS	3550B
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	ND		1	0.0620	1.00	ug/kg	04/06/23 07:57	04/07/23 18:29	B3D0050	ATS	3550B
alpha-Hexachlorocyclohexane (Alpha-BHC)	ND		1	0.0710	1.00	ug/kg	04/06/23 07:57	04/07/23 18:29	B3D0050	ATS	3550B
beta-Hexachlorocyclohexane (Betta-BHC)	ND		1	0.217	1.00	ug/kg	04/06/23 07:57	04/07/23 18:29	B3D0050	ATS	3550B
delta-Hexachlorocyclohexane (Delta-BHC)	ND		1	0.0880	1.00	ug/kg	04/06/23 07:57	04/07/23 18:29	B3D0050	ATS	3550B
4,4'-DDD (DDD)	ND		1	0.0980	1.00	ug/kg	04/06/23 07:57	04/07/23 18:29	B3D0050	ATS	3550B
4,4'-DDE (DDE)	**0.640**	J	1	0.0930	1.00	ug/kg	04/06/23 07:57	04/07/23 18:29	B3D0050	ATS	3550B
4,4'-DDT (DDT)	**0.727**	J	1	0.235	1.00	ug/kg	04/06/23 07:57	04/07/23 18:29	B3D0050	ATS	3550B
Dieldrin	ND		1	0.0950	1.00	ug/kg	04/06/23 07:57	04/07/23 18:29	B3D0050	ATS	3550B
Endrin	ND		1	0.106	1.00	ug/kg	04/06/23 07:57	04/07/23 18:29	B3D0050	ATS	3550B
Endrin aldehyde	ND		1	0.117	1.00	ug/kg	04/06/23 07:57	04/07/23 18:29	B3D0050	ATS	3550B
Endrin ketone	ND		1	0.122	1.00	ug/kg	04/06/23 07:57	04/07/23 18:29	B3D0050	ATS	3550B
Endosulfan 1	ND		1	0.115	1.00	ug/kg	04/06/23 07:57	04/07/23 18:29	B3D0050	ATS	3550B
Endosulfan 11	ND		1	0.177	1.00	ug/kg	04/06/23 07:57	04/07/23 18:29	B3D0050	ATS	3550B
Endosulfan sulfate	ND		1	0.0470	1.00	ug/kg	04/06/23 07:57	04/07/23 18:29	B3D0050	ATS	3550B
Heptachlor	ND		1	0.206	1.00	ug/kg	04/06/23 07:57	04/07/23 18:29	B3D0050	ATS	3550B
Heptachlor epoxide	ND		1	0.101	1.00	ug/kg	04/06/23 07:57	04/07/23 18:29	B3D0050	ATS	3550B
Methoxychlor	ND		1	0.310	1.00	ug/kg	04/06/23 07:57	04/07/23 18:29	B3D0050	ATS	3550B
Toxaphene	ND		1	4.10	50.0	ug/kg	04/06/23 07:57	04/07/23 18:29	B3D0050	ATS	3550B
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*48.5%*				*30-150*		04/06/23 07:57	*04/07/23 18:29*	B3D0050	*ATS*	3550B
Surrogate: Tetrachloro-m-xylene	*53.0%*				*30-150*		04/06/23 07:57	*04/07/23 18:29*	B3D0050	*ATS*	3550B
PCBs											
Method: EPA 8082											
Aroclor-1016 (PCB-1016)	ND		1	11.6	25.0	ug/kg	04/06/23 08:18	04/06/23 12:21	B3D0052	BC	3550B
Aroclor-1221 (PCB-1221)	ND		1	8.11	25.0	ug/kg	04/06/23 08:18	04/06/23 12:21	B3D0052	BC	3550B

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Parsons	AETL Job Number:	BED0009	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 12:39	

Analytical Results

Client ID: **SB-26-D0.5-Dup**
Lab ID: **BED0009-02 (Soil)** **Sampled:** **04/03/23 12:22**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
PCBs (Continued)											
Aroclor-1232 (PCB-1232)	ND		1	15.2	25.0	ug/kg	04/06/23 08:18	04/06/23 12:21	B3D0052	BC	3550B
Aroclor-1242 (PCB-1242)	ND		1	5.25	25.0	ug/kg	04/06/23 08:18	04/06/23 12:21	B3D0052	BC	3550B
Aroclor-1248 (PCB-1248)	ND		1	11.0	25.0	ug/kg	04/06/23 08:18	04/06/23 12:21	B3D0052	BC	3550B
Aroclor-1254 (PCB-1254)	ND		1	11.9	25.0	ug/kg	04/06/23 08:18	04/06/23 12:21	B3D0052	BC	3550B
Aroclor-1260 (PCB-1260)	ND		1	6.02	25.0	ug/kg	04/06/23 08:18	04/06/23 12:21	B3D0052	BC	3550B
Aroclor-1262 (PCB-1262)	ND		1	20.0	50.0	ug/kg	04/06/23 08:18	04/06/23 12:21	B3D0052	BC	3550B
Aroclor-1268 (PCB-1268)	ND		1	20.0	50.0	ug/kg	04/06/23 08:18	04/06/23 12:21	B3D0052	BC	3550B
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*85.5%*				*50-150*		04/06/23 08:18	*04/06/23 12:21*	B3D0052	*BC*	3550B
Surrogate: Tetrachloro-m-xylene	*53.8%*				*50-150*		04/06/23 08:18	*04/06/23 12:21*	B3D0052	*BC*	3550B

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Parsons	AETL Job Number:	BED0009	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 12:39	

Analytical Results

Client ID: SB-24-D0.5
Lab ID: BED0009-05 (Soil) **Sampled: 04/03/23 12:27**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Lead	**5.22**		1	0.550	5.00	mg/kg	04/05/23 10:05	04/06/23 13:11	B3D0044	DT	3050B
Organochlorine Pesticides											
Method: EPA 8081A											
Aldrin	ND		1	0.0900	1.00	ug/kg	04/06/23 07:57	04/07/23 18:46	B3D0050	ATS	3550B
alpha-Chlordane	ND		1	0.121	1.00	ug/kg	04/06/23 07:57	04/07/23 18:46	B3D0050	ATS	3550B
gamma-Chlordane	ND		1	0.114	1.00	ug/kg	04/06/23 07:57	04/07/23 18:46	B3D0050	ATS	3550B
Chlordane (Total)	ND		1	1.00	2.00	ug/kg	04/06/23 07:57	04/07/23 18:46	B3D0050	ATS	3550B
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	ND		1	0.0620	1.00	ug/kg	04/06/23 07:57	04/07/23 18:46	B3D0050	ATS	3550B
alpha-Hexachlorocyclohexane (Alpha-BHC)	ND		1	0.0710	1.00	ug/kg	04/06/23 07:57	04/07/23 18:46	B3D0050	ATS	3550B
beta-Hexachlorocyclohexane (Betta-BHC)	ND		1	0.217	1.00	ug/kg	04/06/23 07:57	04/07/23 18:46	B3D0050	ATS	3550B
delta-Hexachlorocyclohexane (Delta-BHC)	ND		1	0.0880	1.00	ug/kg	04/06/23 07:57	04/07/23 18:46	B3D0050	ATS	3550B
4,4'-DDD (DDD)	**0.154**	J	1	0.0980	1.00	ug/kg	04/06/23 07:57	04/07/23 18:46	B3D0050	ATS	3550B
4,4'-DDE (DDE)	ND		1	0.0930	1.00	ug/kg	04/06/23 07:57	04/07/23 18:46	B3D0050	ATS	3550B
4,4'-DDT (DDT)	ND		1	0.235	1.00	ug/kg	04/06/23 07:57	04/07/23 18:46	B3D0050	ATS	3550B
Dieldrin	**2.32**		1	0.0950	1.00	ug/kg	04/06/23 07:57	04/07/23 18:46	B3D0050	ATS	3550B
Endrin	ND		1	0.106	1.00	ug/kg	04/06/23 07:57	04/07/23 18:46	B3D0050	ATS	3550B
Endrin aldehyde	ND		1	0.117	1.00	ug/kg	04/06/23 07:57	04/07/23 18:46	B3D0050	ATS	3550B
Endrin ketone	ND		1	0.122	1.00	ug/kg	04/06/23 07:57	04/07/23 18:46	B3D0050	ATS	3550B
Endosulfan 1	ND		1	0.115	1.00	ug/kg	04/06/23 07:57	04/07/23 18:46	B3D0050	ATS	3550B
Endosulfan 11	ND		1	0.177	1.00	ug/kg	04/06/23 07:57	04/07/23 18:46	B3D0050	ATS	3550B
Endosulfan sulfate	ND		1	0.0470	1.00	ug/kg	04/06/23 07:57	04/07/23 18:46	B3D0050	ATS	3550B
Heptachlor	ND		1	0.206	1.00	ug/kg	04/06/23 07:57	04/07/23 18:46	B3D0050	ATS	3550B
Heptachlor epoxide	ND		1	0.101	1.00	ug/kg	04/06/23 07:57	04/07/23 18:46	B3D0050	ATS	3550B
Methoxychlor	ND		1	0.310	1.00	ug/kg	04/06/23 07:57	04/07/23 18:46	B3D0050	ATS	3550B
Toxaphene	ND		1	4.10	50.0	ug/kg	04/06/23 07:57	04/07/23 18:46	B3D0050	ATS	3550B
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*63.8%*				*30-150*		04/06/23 07:57	*04/07/23 18:46*	B3D0050	*ATS*	3550B
Surrogate: Tetrachloro-m-xylene	*65.2%*				*30-150*		04/06/23 07:57	*04/07/23 18:46*	B3D0050	*ATS*	3550B

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Parsons	AETL Job Number:	BED0009	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 12:39	

Analytical Results

Client ID: SB-24-D0.5
Lab ID: BED0009-05 (Soil) **Sampled:** 04/03/23 12:27

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Organochlorine Pesticides (Continued)											
PCBs											
Method: EPA 8082											
Aroclor-1016 (PCB-1016)	ND		1	11.6	25.0	ug/kg	04/06/23 08:18	04/06/23 12:40	B3D0052	BC	3550B
Aroclor-1221 (PCB-1221)	ND		1	8.11	25.0	ug/kg	04/06/23 08:18	04/06/23 12:40	B3D0052	BC	3550B
Aroclor-1232 (PCB-1232)	ND		1	15.2	25.0	ug/kg	04/06/23 08:18	04/06/23 12:40	B3D0052	BC	3550B
Aroclor-1242 (PCB-1242)	ND		1	5.25	25.0	ug/kg	04/06/23 08:18	04/06/23 12:40	B3D0052	BC	3550B
Aroclor-1248 (PCB-1248)	ND		1	11.0	25.0	ug/kg	04/06/23 08:18	04/06/23 12:40	B3D0052	BC	3550B
Aroclor-1254 (PCB-1254)	ND		1	11.9	25.0	ug/kg	04/06/23 08:18	04/06/23 12:40	B3D0052	BC	3550B
Aroclor-1260 (PCB-1260)	ND		1	6.02	25.0	ug/kg	04/06/23 08:18	04/06/23 12:40	B3D0052	BC	3550B
Aroclor-1262 (PCB-1262)	ND		1	20.0	50.0	ug/kg	04/06/23 08:18	04/06/23 12:40	B3D0052	BC	3550B
Aroclor-1268 (PCB-1268)	ND		1	20.0	50.0	ug/kg	04/06/23 08:18	04/06/23 12:40	B3D0052	BC	3550B
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*97.6%*				*50-150*		04/06/23 08:18	*04/06/23 12:40*	B3D0052	*BC*	3550B
Surrogate: Tetrachloro-m-xylene	*79.2%*				*50-150*		04/06/23 08:18	*04/06/23 12:40*	B3D0052	*BC*	3550B

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Parsons	AETL Job Number:	BED0009	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 12:39	

Analytical Results

Client ID: SB-23-D0.5
Lab ID: BED0009-08 (Soil) **Sampled: 04/03/23 9:35**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Lead	**10.3**		1	0.550	5.00	mg/kg	04/05/23 10:05	04/06/23 13:14	B3D0044	DT	3050B
Organochlorine Pesticides											
Method: EPA 8081A											
Aldrin	ND		2	0.180	2.00	ug/kg	04/06/23 07:57	04/07/23 19:03	B3D0050	ATS	3550B
alpha-Chlordane	**1.38**	J	2	0.242	2.00	ug/kg	04/06/23 07:57	04/07/23 19:03	B3D0050	ATS	3550B
gamma-Chlordane	**1.50**	J	2	0.228	2.00	ug/kg	04/06/23 07:57	04/07/23 19:03	B3D0050	ATS	3550B
Chlordane (Total)	**2.88**	J	2	2.00	4.00	ug/kg	04/06/23 07:57	04/07/23 19:03	B3D0050	ATS	3550B
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	ND		2	0.124	2.00	ug/kg	04/06/23 07:57	04/07/23 19:03	B3D0050	ATS	3550B
alpha-Hexachlorocyclohexane (Alpha-BHC)	ND		2	0.142	2.00	ug/kg	04/06/23 07:57	04/07/23 19:03	B3D0050	ATS	3550B
beta-Hexachlorocyclohexane (Betta-BHC)	ND		2	0.434	2.00	ug/kg	04/06/23 07:57	04/07/23 19:03	B3D0050	ATS	3550B
delta-Hexachlorocyclohexane (Delta-BHC)	ND		2	0.176	2.00	ug/kg	04/06/23 07:57	04/07/23 19:03	B3D0050	ATS	3550B
4,4'-DDD (DDD)	ND		2	0.196	2.00	ug/kg	04/06/23 07:57	04/07/23 19:03	B3D0050	ATS	3550B
4,4'-DDE (DDE)	ND		2	0.186	2.00	ug/kg	04/06/23 07:57	04/07/23 19:03	B3D0050	ATS	3550B
4,4'-DDT (DDT)	ND		2	0.470	2.00	ug/kg	04/06/23 07:57	04/07/23 19:03	B3D0050	ATS	3550B
Dieldrin	**1.32**	J	2	0.190	2.00	ug/kg	04/06/23 07:57	04/07/23 19:03	B3D0050	ATS	3550B
Endrin	ND		2	0.212	2.00	ug/kg	04/06/23 07:57	04/07/23 19:03	B3D0050	ATS	3550B
Endrin aldehyde	ND		2	0.234	2.00	ug/kg	04/06/23 07:57	04/07/23 19:03	B3D0050	ATS	3550B
Endrin ketone	ND		2	0.244	2.00	ug/kg	04/06/23 07:57	04/07/23 19:03	B3D0050	ATS	3550B
Endosulfan 1	ND		2	0.230	2.00	ug/kg	04/06/23 07:57	04/07/23 19:03	B3D0050	ATS	3550B
Endosulfan 11	ND		2	0.354	2.00	ug/kg	04/06/23 07:57	04/07/23 19:03	B3D0050	ATS	3550B
Endosulfan sulfate	ND		2	0.0940	2.00	ug/kg	04/06/23 07:57	04/07/23 19:03	B3D0050	ATS	3550B
Heptachlor	ND		2	0.412	2.00	ug/kg	04/06/23 07:57	04/07/23 19:03	B3D0050	ATS	3550B
Heptachlor epoxide	ND		2	0.202	2.00	ug/kg	04/06/23 07:57	04/07/23 19:03	B3D0050	ATS	3550B
Methoxychlor	ND		2	0.620	2.00	ug/kg	04/06/23 07:57	04/07/23 19:03	B3D0050	ATS	3550B
Toxaphene	ND		2	8.20	100	ug/kg	04/06/23 07:57	04/07/23 19:03	B3D0050	ATS	3550B
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*53.0%*				*30-150*		04/06/23 07:57	*04/07/23 19:03*	B3D0050	*ATS*	3550B
Surrogate: Tetrachloro-m-xylene	*66.5%*				*30-150*		04/06/23 07:57	*04/07/23 19:03*	B3D0050	*ATS*	3550B

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Parsons	AETL Job Number:	BED0009	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 12:39	

Analytical Results

Client ID: **SB-23-D0.5**
Lab ID: **BED0009-08 (Soil)** **Sampled:** **04/03/23 9:35**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method

Organochlorine Pesticides (Continued)

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Parsons	AETL Job Number:	BED0009	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 12:39	

Analytical Results

Client ID: SB-25-D0.5
Lab ID: BED0009-11 (Soil) **Sampled: 04/03/23 10:00**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Lead	**35.0**		1	0.550	5.00	mg/kg	04/05/23 10:05	04/06/23 13:17	B3D0044	DT	3050B
Organochlorine Pesticides											
Method: EPA 8081A											
Aldrin	ND		1	0.0900	1.00	ug/kg	04/06/23 07:57	04/07/23 19:20	B3D0050	ATS	3550B
alpha-Chlordane	**0.928**	J	1	0.121	1.00	ug/kg	04/06/23 07:57	04/07/23 19:20	B3D0050	ATS	3550B
gamma-Chlordane	**0.880**	J	1	0.114	1.00	ug/kg	04/06/23 07:57	04/07/23 19:20	B3D0050	ATS	3550B
Chlordane (Total)	**1.81**	J	1	1.00	2.00	ug/kg	04/06/23 07:57	04/07/23 19:20	B3D0050	ATS	3550B
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	ND		1	0.0620	1.00	ug/kg	04/06/23 07:57	04/07/23 19:20	B3D0050	ATS	3550B
alpha-Hexachlorocyclohexane (Alpha-BHC)	ND		1	0.0710	1.00	ug/kg	04/06/23 07:57	04/07/23 19:20	B3D0050	ATS	3550B
beta-Hexachlorocyclohexane (Betta-BHC)	ND		1	0.217	1.00	ug/kg	04/06/23 07:57	04/07/23 19:20	B3D0050	ATS	3550B
delta-Hexachlorocyclohexane (Delta-BHC)	ND		1	0.0880	1.00	ug/kg	04/06/23 07:57	04/07/23 19:20	B3D0050	ATS	3550B
4,4'-DDD (DDD)	ND		1	0.0980	1.00	ug/kg	04/06/23 07:57	04/07/23 19:20	B3D0050	ATS	3550B
4,4'-DDE (DDE)	**0.182**	J	1	0.0930	1.00	ug/kg	04/06/23 07:57	04/07/23 19:20	B3D0050	ATS	3550B
4,4'-DDT (DDT)	**1.38**		1	0.235	1.00	ug/kg	04/06/23 07:57	04/07/23 19:20	B3D0050	ATS	3550B
Dieldrin	**0.203**	J	1	0.0950	1.00	ug/kg	04/06/23 07:57	04/07/23 19:20	B3D0050	ATS	3550B
Endrin	ND		1	0.106	1.00	ug/kg	04/06/23 07:57	04/07/23 19:20	B3D0050	ATS	3550B
Endrin aldehyde	ND		1	0.117	1.00	ug/kg	04/06/23 07:57	04/07/23 19:20	B3D0050	ATS	3550B
Endrin ketone	ND		1	0.122	1.00	ug/kg	04/06/23 07:57	04/07/23 19:20	B3D0050	ATS	3550B
Endosulfan 1	ND		1	0.115	1.00	ug/kg	04/06/23 07:57	04/07/23 19:20	B3D0050	ATS	3550B
Endosulfan 11	ND		1	0.177	1.00	ug/kg	04/06/23 07:57	04/07/23 19:20	B3D0050	ATS	3550B
Endosulfan sulfate	ND		1	0.0470	1.00	ug/kg	04/06/23 07:57	04/07/23 19:20	B3D0050	ATS	3550B
Heptachlor	ND		1	0.206	1.00	ug/kg	04/06/23 07:57	04/07/23 19:20	B3D0050	ATS	3550B
Heptachlor epoxide	ND		1	0.101	1.00	ug/kg	04/06/23 07:57	04/07/23 19:20	B3D0050	ATS	3550B
Methoxychlor	ND		1	0.310	1.00	ug/kg	04/06/23 07:57	04/07/23 19:20	B3D0050	ATS	3550B
Toxaphene	ND		1	4.10	50.0	ug/kg	04/06/23 07:57	04/07/23 19:20	B3D0050	ATS	3550B
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*61.6%*				*30-150*		04/06/23 07:57	*04/07/23 19:20*	B3D0050	*ATS*	3550B
Surrogate: Tetrachloro-m-xylene	*66.5%*				*30-150*		04/06/23 07:57	*04/07/23 19:20*	B3D0050	*ATS*	3550B

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Parsons	AETL Job Number:	BED0009	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 12:39	

Analytical Results

Client ID: **SB-25-D0.5**
Lab ID: **BED0009-11 (Soil)** **Sampled:** **04/03/23 10:00**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method

Organochlorine Pesticides (Continued)

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Parsons	AETL Job Number:	BED0009	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 12:39	

Analytical Results

Client ID: SB-27-D0.5
Lab ID: BED0009-14 (Soil) **Sampled: 04/03/23 10:55**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Lead	**8.47**		1	0.550	5.00	mg/kg	04/05/23 10:05	04/06/23 13:20	B3D0044	DT	3050B
Organochlorine Pesticides											
Method: EPA 8081A											
Aldrin	ND		1	0.0900	1.00	ug/kg	04/06/23 07:57	04/07/23 19:37	B3D0050	ATS	3550B
alpha-Chlordane	ND		1	0.121	1.00	ug/kg	04/06/23 07:57	04/07/23 19:37	B3D0050	ATS	3550B
gamma-Chlordane	**0.114**	J	1	0.114	1.00	ug/kg	04/06/23 07:57	04/07/23 19:37	B3D0050	ATS	3550B
Chlordane (Total)	ND		1	1.00	2.00	ug/kg	04/06/23 07:57	04/07/23 19:37	B3D0050	ATS	3550B
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	ND		1	0.0620	1.00	ug/kg	04/06/23 07:57	04/07/23 19:37	B3D0050	ATS	3550B
alpha-Hexachlorocyclohexane (Alpha-BHC)	ND		1	0.0710	1.00	ug/kg	04/06/23 07:57	04/07/23 19:37	B3D0050	ATS	3550B
beta-Hexachlorocyclohexane (Betta-BHC)	ND		1	0.217	1.00	ug/kg	04/06/23 07:57	04/07/23 19:37	B3D0050	ATS	3550B
delta-Hexachlorocyclohexane (Delta-BHC)	ND		1	0.0880	1.00	ug/kg	04/06/23 07:57	04/07/23 19:37	B3D0050	ATS	3550B
4,4'-DDD (DDD)	ND		1	0.0980	1.00	ug/kg	04/06/23 07:57	04/07/23 19:37	B3D0050	ATS	3550B
4,4'-DDE (DDE)	**0.211**	J	1	0.0930	1.00	ug/kg	04/06/23 07:57	04/07/23 19:37	B3D0050	ATS	3550B
4,4'-DDT (DDT)	**1.70**		1	0.235	1.00	ug/kg	04/06/23 07:57	04/07/23 19:37	B3D0050	ATS	3550B
Dieldrin	ND		1	0.0950	1.00	ug/kg	04/06/23 07:57	04/07/23 19:37	B3D0050	ATS	3550B
Endrin	ND		1	0.106	1.00	ug/kg	04/06/23 07:57	04/07/23 19:37	B3D0050	ATS	3550B
Endrin aldehyde	ND		1	0.117	1.00	ug/kg	04/06/23 07:57	04/07/23 19:37	B3D0050	ATS	3550B
Endrin ketone	ND		1	0.122	1.00	ug/kg	04/06/23 07:57	04/07/23 19:37	B3D0050	ATS	3550B
Endosulfan 1	ND		1	0.115	1.00	ug/kg	04/06/23 07:57	04/07/23 19:37	B3D0050	ATS	3550B
Endosulfan 11	ND		1	0.177	1.00	ug/kg	04/06/23 07:57	04/07/23 19:37	B3D0050	ATS	3550B
Endosulfan sulfate	ND		1	0.0470	1.00	ug/kg	04/06/23 07:57	04/07/23 19:37	B3D0050	ATS	3550B
Heptachlor	ND		1	0.206	1.00	ug/kg	04/06/23 07:57	04/07/23 19:37	B3D0050	ATS	3550B
Heptachlor epoxide	ND		1	0.101	1.00	ug/kg	04/06/23 07:57	04/07/23 19:37	B3D0050	ATS	3550B
Methoxychlor	ND		1	0.310	1.00	ug/kg	04/06/23 07:57	04/07/23 19:37	B3D0050	ATS	3550B
Toxaphene	ND		1	4.10	50.0	ug/kg	04/06/23 07:57	04/07/23 19:37	B3D0050	ATS	3550B
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*65.2%*				*30-150*		04/06/23 07:57	*04/07/23 19:37*	B3D0050	*ATS*	3550B
Surrogate: Tetrachloro-m-xylene	*70.6%*				*30-150*		04/06/23 07:57	*04/07/23 19:37*	B3D0050	*ATS*	3550B

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Parsons	AETL Job Number:	BED0009	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 12:39	

Analytical Results

Client ID: **SB-27-D0.5**
Lab ID: **BED0009-14 (Soil)** **Sampled:** **04/03/23 10:55**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method

Organochlorine Pesticides (Continued)

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Parsons	AETL Job Number:	BED0009	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 12:39	

Analytical Results

Client ID: SB-29-D0.5
Lab ID: BED0009-17 (Soil) **Sampled: 04/03/23 11:55**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Lead	**17.5**		1	0.550	5.00	mg/kg	04/05/23 10:05	04/06/23 13:22	B3D0044	DT	3050B
Organochlorine Pesticides											
Method: EPA 8081A											
Aldrin	ND		1	0.0900	1.00	ug/kg	04/06/23 07:57	04/07/23 20:11	B3D0050	ATS	3550B
alpha-Chlordane	**0.654**	J	1	0.121	1.00	ug/kg	04/06/23 07:57	04/07/23 20:11	B3D0050	ATS	3550B
gamma-Chlordane	**0.611**	J	1	0.114	1.00	ug/kg	04/06/23 07:57	04/07/23 20:11	B3D0050	ATS	3550B
Chlordane (Total)	**1.26**	J	1	1.00	2.00	ug/kg	04/06/23 07:57	04/07/23 20:11	B3D0050	ATS	3550B
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	ND		1	0.0620	1.00	ug/kg	04/06/23 07:57	04/07/23 20:11	B3D0050	ATS	3550B
alpha-Hexachlorocyclohexane (Alpha-BHC)	ND		1	0.0710	1.00	ug/kg	04/06/23 07:57	04/07/23 20:11	B3D0050	ATS	3550B
beta-Hexachlorocyclohexane (Betta-BHC)	ND		1	0.217	1.00	ug/kg	04/06/23 07:57	04/07/23 20:11	B3D0050	ATS	3550B
delta-Hexachlorocyclohexane (Delta-BHC)	ND		1	0.0880	1.00	ug/kg	04/06/23 07:57	04/07/23 20:11	B3D0050	ATS	3550B
4,4'-DDD (DDD)	**0.971**	J	1	0.0980	1.00	ug/kg	04/06/23 07:57	04/07/23 20:11	B3D0050	ATS	3550B
4,4'-DDE (DDE)	**1.38**		1	0.0930	1.00	ug/kg	04/06/23 07:57	04/07/23 20:11	B3D0050	ATS	3550B
4,4'-DDT (DDT)	**0.744**	J	1	0.235	1.00	ug/kg	04/06/23 07:57	04/07/23 20:11	B3D0050	ATS	3550B
Dieldrin	**0.622**	J	1	0.0950	1.00	ug/kg	04/06/23 07:57	04/07/23 20:11	B3D0050	ATS	3550B
Endrin	ND		1	0.106	1.00	ug/kg	04/06/23 07:57	04/07/23 20:11	B3D0050	ATS	3550B
Endrin aldehyde	ND		1	0.117	1.00	ug/kg	04/06/23 07:57	04/07/23 20:11	B3D0050	ATS	3550B
Endrin ketone	ND		1	0.122	1.00	ug/kg	04/06/23 07:57	04/07/23 20:11	B3D0050	ATS	3550B
Endosulfan 1	ND		1	0.115	1.00	ug/kg	04/06/23 07:57	04/07/23 20:11	B3D0050	ATS	3550B
Endosulfan 11	ND		1	0.177	1.00	ug/kg	04/06/23 07:57	04/07/23 20:11	B3D0050	ATS	3550B
Endosulfan sulfate	ND		1	0.0470	1.00	ug/kg	04/06/23 07:57	04/07/23 20:11	B3D0050	ATS	3550B
Heptachlor	ND		1	0.206	1.00	ug/kg	04/06/23 07:57	04/07/23 20:11	B3D0050	ATS	3550B
Heptachlor epoxide	ND		1	0.101	1.00	ug/kg	04/06/23 07:57	04/07/23 20:11	B3D0050	ATS	3550B
Methoxychlor	ND		1	0.310	1.00	ug/kg	04/06/23 07:57	04/07/23 20:11	B3D0050	ATS	3550B
Toxaphene	ND		1	4.10	50.0	ug/kg	04/06/23 07:57	04/07/23 20:11	B3D0050	ATS	3550B
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*35.3%*				*30-150*		04/06/23 07:57	*04/07/23 20:11*	B3D0050	*ATS*	3550B
Surrogate: Tetrachloro-m-xylene	*47.6%*				*30-150*		04/06/23 07:57	*04/07/23 20:11*	B3D0050	*ATS*	3550B

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Parsons	AETL Job Number:	BED0009	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 12:39	

Analytical Results

Client ID: **SB-29-D0.5**
Lab ID: **BED0009-17 (Soil)** **Sampled:** **04/03/23 11:55**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method

Organochlorine Pesticides (Continued)

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Parsons	AETL Job Number:	BED0009	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 12:39	

Analytical Results

Client ID: SB-18-D0.5
Lab ID: BED0009-20 (Soil) **Sampled: 04/03/23 12:54**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Lead	**6.39**		1	0.550	5.00	mg/kg	04/05/23 10:05	04/06/23 13:25	B3D0044	DT	3050B
Organochlorine Pesticides											
Method: EPA 8081A											
Aldrin	ND		1	0.0900	1.00	ug/kg	04/06/23 07:57	04/07/23 20:28	B3D0050	ATS	3550B
alpha-Chlordane	ND		1	0.121	1.00	ug/kg	04/06/23 07:57	04/07/23 20:28	B3D0050	ATS	3550B
gamma-Chlordane	ND		1	0.114	1.00	ug/kg	04/06/23 07:57	04/07/23 20:28	B3D0050	ATS	3550B
Chlordane (Total)	ND		1	1.00	2.00	ug/kg	04/06/23 07:57	04/07/23 20:28	B3D0050	ATS	3550B
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	ND		1	0.0620	1.00	ug/kg	04/06/23 07:57	04/07/23 20:28	B3D0050	ATS	3550B
alpha-Hexachlorocyclohexane (Alpha-BHC)	ND		1	0.0710	1.00	ug/kg	04/06/23 07:57	04/07/23 20:28	B3D0050	ATS	3550B
beta-Hexachlorocyclohexane (Betta-BHC)	ND		1	0.217	1.00	ug/kg	04/06/23 07:57	04/07/23 20:28	B3D0050	ATS	3550B
delta-Hexachlorocyclohexane (Delta-BHC)	ND		1	0.0880	1.00	ug/kg	04/06/23 07:57	04/07/23 20:28	B3D0050	ATS	3550B
4,4'-DDD (DDD)	ND		1	0.0980	1.00	ug/kg	04/06/23 07:57	04/07/23 20:28	B3D0050	ATS	3550B
4,4'-DDE (DDE)	ND		1	0.0930	1.00	ug/kg	04/06/23 07:57	04/07/23 20:28	B3D0050	ATS	3550B
4,4'-DDT (DDT)	ND		1	0.235	1.00	ug/kg	04/06/23 07:57	04/07/23 20:28	B3D0050	ATS	3550B
Dieldrin	ND		1	0.0950	1.00	ug/kg	04/06/23 07:57	04/07/23 20:28	B3D0050	ATS	3550B
Endrin	ND		1	0.106	1.00	ug/kg	04/06/23 07:57	04/07/23 20:28	B3D0050	ATS	3550B
Endrin aldehyde	ND		1	0.117	1.00	ug/kg	04/06/23 07:57	04/07/23 20:28	B3D0050	ATS	3550B
Endrin ketone	ND		1	0.122	1.00	ug/kg	04/06/23 07:57	04/07/23 20:28	B3D0050	ATS	3550B
Endosulfan 1	ND		1	0.115	1.00	ug/kg	04/06/23 07:57	04/07/23 20:28	B3D0050	ATS	3550B
Endosulfan 11	ND		1	0.177	1.00	ug/kg	04/06/23 07:57	04/07/23 20:28	B3D0050	ATS	3550B
Endosulfan sulfate	ND		1	0.0470	1.00	ug/kg	04/06/23 07:57	04/07/23 20:28	B3D0050	ATS	3550B
Heptachlor	ND		1	0.206	1.00	ug/kg	04/06/23 07:57	04/07/23 20:28	B3D0050	ATS	3550B
Heptachlor epoxide	ND		1	0.101	1.00	ug/kg	04/06/23 07:57	04/07/23 20:28	B3D0050	ATS	3550B
Methoxychlor	ND		1	0.310	1.00	ug/kg	04/06/23 07:57	04/07/23 20:28	B3D0050	ATS	3550B
Toxaphene	ND		1	4.10	50.0	ug/kg	04/06/23 07:57	04/07/23 20:28	B3D0050	ATS	3550B
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*43.8%*				*30-150*		04/06/23 07:57	*04/07/23 20:28*	B3D0050	*ATS*	3550B
Surrogate: Tetrachloro-m-xylene	*48.9%*				*30-150*		04/06/23 07:57	*04/07/23 20:28*	B3D0050	*ATS*	3550B

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Parsons	AETL Job Number:	BED0009	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 12:39	

Analytical Results

Client ID: **SB-18-D0.5**
Lab ID: **BED0009-20 (Soil)** **Sampled:** **04/03/23 12:54**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method

Organochlorine Pesticides (Continued)

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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Parsons	AETL Job Number:	BED0009	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 12:39	

Analytical Results

Client ID: SB-15-D0.5
Lab ID: BED0009-23 (Soil) **Sampled: 04/03/23 13:24**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Lead	**5.35**		1	0.550	5.00	mg/kg	04/05/23 10:05	04/06/23 13:28	B3D0044	DT	3050B
Organochlorine Pesticides											
Method: EPA 8081A											
Aldrin	ND		1	0.0900	1.00	ug/kg	04/06/23 07:57	04/07/23 20:45	B3D0050	ATS	3550B
alpha-Chlordane	ND		1	0.121	1.00	ug/kg	04/06/23 07:57	04/07/23 20:45	B3D0050	ATS	3550B
gamma-Chlordane	ND		1	0.114	1.00	ug/kg	04/06/23 07:57	04/07/23 20:45	B3D0050	ATS	3550B
Chlordane (Total)	ND		1	1.00	2.00	ug/kg	04/06/23 07:57	04/07/23 20:45	B3D0050	ATS	3550B
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	ND		1	0.0620	1.00	ug/kg	04/06/23 07:57	04/07/23 20:45	B3D0050	ATS	3550B
alpha-Hexachlorocyclohexane (Alpha-BHC)	ND		1	0.0710	1.00	ug/kg	04/06/23 07:57	04/07/23 20:45	B3D0050	ATS	3550B
beta-Hexachlorocyclohexane (Betta-BHC)	ND		1	0.217	1.00	ug/kg	04/06/23 07:57	04/07/23 20:45	B3D0050	ATS	3550B
delta-Hexachlorocyclohexane (Delta-BHC)	ND		1	0.0880	1.00	ug/kg	04/06/23 07:57	04/07/23 20:45	B3D0050	ATS	3550B
4,4'-DDD (DDD)	ND		1	0.0980	1.00	ug/kg	04/06/23 07:57	04/07/23 20:45	B3D0050	ATS	3550B
4,4'-DDE (DDE)	ND		1	0.0930	1.00	ug/kg	04/06/23 07:57	04/07/23 20:45	B3D0050	ATS	3550B
4,4'-DDT (DDT)	ND		1	0.235	1.00	ug/kg	04/06/23 07:57	04/07/23 20:45	B3D0050	ATS	3550B
Dieldrin	ND		1	0.0950	1.00	ug/kg	04/06/23 07:57	04/07/23 20:45	B3D0050	ATS	3550B
Endrin	ND		1	0.106	1.00	ug/kg	04/06/23 07:57	04/07/23 20:45	B3D0050	ATS	3550B
Endrin aldehyde	ND		1	0.117	1.00	ug/kg	04/06/23 07:57	04/07/23 20:45	B3D0050	ATS	3550B
Endrin ketone	ND		1	0.122	1.00	ug/kg	04/06/23 07:57	04/07/23 20:45	B3D0050	ATS	3550B
Endosulfan 1	ND		1	0.115	1.00	ug/kg	04/06/23 07:57	04/07/23 20:45	B3D0050	ATS	3550B
Endosulfan 11	ND		1	0.177	1.00	ug/kg	04/06/23 07:57	04/07/23 20:45	B3D0050	ATS	3550B
Endosulfan sulfate	ND		1	0.0470	1.00	ug/kg	04/06/23 07:57	04/07/23 20:45	B3D0050	ATS	3550B
Heptachlor	ND		1	0.206	1.00	ug/kg	04/06/23 07:57	04/07/23 20:45	B3D0050	ATS	3550B
Heptachlor epoxide	ND		1	0.101	1.00	ug/kg	04/06/23 07:57	04/07/23 20:45	B3D0050	ATS	3550B
Methoxychlor	ND		1	0.310	1.00	ug/kg	04/06/23 07:57	04/07/23 20:45	B3D0050	ATS	3550B
Toxaphene	ND		1	4.10	50.0	ug/kg	04/06/23 07:57	04/07/23 20:45	B3D0050	ATS	3550B
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*41.3%*				*30-150*		04/06/23 07:57	*04/07/23 20:45*	B3D0050	*ATS*	3550B
Surrogate: Tetrachloro-m-xylene	*50.7%*				*30-150*		04/06/23 07:57	*04/07/23 20:45*	B3D0050	*ATS*	3550B

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Parsons	AETL Job Number:	BED0009	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 12:39	

Analytical Results

Client ID: **SB-15-D0.5**
Lab ID: **BED0009-23 (Soil)** **Sampled:** **04/03/23 13:24**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method

Organochlorine Pesticides (Continued)

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Parsons	AETL Job Number:	BED0009	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 12:39	

Analytical Results

Client ID: SB-16-D0.5
Lab ID: BED0009-26 (Soil) **Sampled: 04/03/23 13:39**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Lead	**3.93**	J	1	0.550	5.00	mg/kg	04/05/23 10:05	04/06/23 13:31	B3D0044	DT	3050B
Organochlorine Pesticides											
Method: EPA 8081A											
Aldrin	ND		1	0.0900	1.00	ug/kg	04/06/23 07:57	04/07/23 21:02	B3D0050	ATS	3550B
alpha-Chlordane	**1.08**		1	0.121	1.00	ug/kg	04/06/23 07:57	04/07/23 21:02	B3D0050	ATS	3550B
gamma-Chlordane	**0.989**	J	1	0.114	1.00	ug/kg	04/06/23 07:57	04/07/23 21:02	B3D0050	ATS	3550B
Chlordane (Total)	**2.07**		1	1.00	2.00	ug/kg	04/06/23 07:57	04/07/23 21:02	B3D0050	ATS	3550B
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	ND		1	0.0620	1.00	ug/kg	04/06/23 07:57	04/07/23 21:02	B3D0050	ATS	3550B
alpha-Hexachlorocyclohexane (Alpha-BHC)	ND		1	0.0710	1.00	ug/kg	04/06/23 07:57	04/07/23 21:02	B3D0050	ATS	3550B
beta-Hexachlorocyclohexane (Betta-BHC)	ND		1	0.217	1.00	ug/kg	04/06/23 07:57	04/07/23 21:02	B3D0050	ATS	3550B
delta-Hexachlorocyclohexane (Delta-BHC)	ND		1	0.0880	1.00	ug/kg	04/06/23 07:57	04/07/23 21:02	B3D0050	ATS	3550B
4,4'-DDD (DDD)	ND		1	0.0980	1.00	ug/kg	04/06/23 07:57	04/07/23 21:02	B3D0050	ATS	3550B
4,4'-DDE (DDE)	**0.580**	J	1	0.0930	1.00	ug/kg	04/06/23 07:57	04/07/23 21:02	B3D0050	ATS	3550B
4,4'-DDT (DDT)	**1.41**		1	0.235	1.00	ug/kg	04/06/23 07:57	04/07/23 21:02	B3D0050	ATS	3550B
Dieldrin	ND		1	0.0950	1.00	ug/kg	04/06/23 07:57	04/07/23 21:02	B3D0050	ATS	3550B
Endrin	ND		1	0.106	1.00	ug/kg	04/06/23 07:57	04/07/23 21:02	B3D0050	ATS	3550B
Endrin aldehyde	ND		1	0.117	1.00	ug/kg	04/06/23 07:57	04/07/23 21:02	B3D0050	ATS	3550B
Endrin ketone	ND		1	0.122	1.00	ug/kg	04/06/23 07:57	04/07/23 21:02	B3D0050	ATS	3550B
Endosulfan 1	ND		1	0.115	1.00	ug/kg	04/06/23 07:57	04/07/23 21:02	B3D0050	ATS	3550B
Endosulfan 11	ND		1	0.177	1.00	ug/kg	04/06/23 07:57	04/07/23 21:02	B3D0050	ATS	3550B
Endosulfan sulfate	ND		1	0.0470	1.00	ug/kg	04/06/23 07:57	04/07/23 21:02	B3D0050	ATS	3550B
Heptachlor	ND		1	0.206	1.00	ug/kg	04/06/23 07:57	04/07/23 21:02	B3D0050	ATS	3550B
Heptachlor epoxide	ND		1	0.101	1.00	ug/kg	04/06/23 07:57	04/07/23 21:02	B3D0050	ATS	3550B
Methoxychlor	ND		1	0.310	1.00	ug/kg	04/06/23 07:57	04/07/23 21:02	B3D0050	ATS	3550B
Toxaphene	ND		1	4.10	50.0	ug/kg	04/06/23 07:57	04/07/23 21:02	B3D0050	ATS	3550B
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*42.2%*				*30-150*		04/06/23 07:57	*04/07/23 21:02*	B3D0050	*ATS*	3550B
Surrogate: Tetrachloro-m-xylene	*41.2%*				*30-150*		04/06/23 07:57	*04/07/23 21:02*	B3D0050	*ATS*	3550B

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Parsons	AETL Job Number:	BED0009	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 12:39	

Analytical Results

Client ID: **SB-16-D0.5**
Lab ID: **BED0009-26 (Soil)** **Sampled:** **04/03/23 13:39**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method

Organochlorine Pesticides (Continued)

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Parsons	AETL Job Number:	BED0009	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 12:39	

Analytical Results

Client ID: SB-16-D0.5-Dup
Lab ID: BED0009-27 (Soil) **Sampled: 04/03/23 13:44**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Lead	**18.7**		1	0.550	5.00	mg/kg	04/05/23 10:05	04/06/23 13:39	B3D0044	DT	3050B
Organochlorine Pesticides											
Method: EPA 8081A											
Aldrin	ND		1	0.0900	1.00	ug/kg	04/06/23 07:57	04/07/23 21:19	B3D0050	ATS	3550B
alpha-Chlordane	**1.23**		1	0.121	1.00	ug/kg	04/06/23 07:57	04/07/23 21:19	B3D0050	ATS	3550B
gamma-Chlordane	**1.06**		1	0.114	1.00	ug/kg	04/06/23 07:57	04/07/23 21:19	B3D0050	ATS	3550B
Chlordane (Total)	**2.29**		1	1.00	2.00	ug/kg	04/06/23 07:57	04/07/23 21:19	B3D0050	ATS	3550B
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	ND		1	0.0620	1.00	ug/kg	04/06/23 07:57	04/07/23 21:19	B3D0050	ATS	3550B
alpha-Hexachlorocyclohexane (Alpha-BHC)	ND		1	0.0710	1.00	ug/kg	04/06/23 07:57	04/07/23 21:19	B3D0050	ATS	3550B
beta-Hexachlorocyclohexane (Betta-BHC)	ND		1	0.217	1.00	ug/kg	04/06/23 07:57	04/07/23 21:19	B3D0050	ATS	3550B
delta-Hexachlorocyclohexane (Delta-BHC)	ND		1	0.0880	1.00	ug/kg	04/06/23 07:57	04/07/23 21:19	B3D0050	ATS	3550B
4,4'-DDD (DDD)	ND		1	0.0980	1.00	ug/kg	04/06/23 07:57	04/07/23 21:19	B3D0050	ATS	3550B
4,4'-DDE (DDE)	**0.427**	J	1	0.0930	1.00	ug/kg	04/06/23 07:57	04/07/23 21:19	B3D0050	ATS	3550B
4,4'-DDT (DDT)	**1.83**		1	0.235	1.00	ug/kg	04/06/23 07:57	04/07/23 21:19	B3D0050	ATS	3550B
Dieldrin	ND		1	0.0950	1.00	ug/kg	04/06/23 07:57	04/07/23 21:19	B3D0050	ATS	3550B
Endrin	ND		1	0.106	1.00	ug/kg	04/06/23 07:57	04/07/23 21:19	B3D0050	ATS	3550B
Endrin aldehyde	ND		1	0.117	1.00	ug/kg	04/06/23 07:57	04/07/23 21:19	B3D0050	ATS	3550B
Endrin ketone	ND		1	0.122	1.00	ug/kg	04/06/23 07:57	04/07/23 21:19	B3D0050	ATS	3550B
Endosulfan 1	ND		1	0.115	1.00	ug/kg	04/06/23 07:57	04/07/23 21:19	B3D0050	ATS	3550B
Endosulfan 11	ND		1	0.177	1.00	ug/kg	04/06/23 07:57	04/07/23 21:19	B3D0050	ATS	3550B
Endosulfan sulfate	ND		1	0.0470	1.00	ug/kg	04/06/23 07:57	04/07/23 21:19	B3D0050	ATS	3550B
Heptachlor	ND		1	0.206	1.00	ug/kg	04/06/23 07:57	04/07/23 21:19	B3D0050	ATS	3550B
Heptachlor epoxide	ND		1	0.101	1.00	ug/kg	04/06/23 07:57	04/07/23 21:19	B3D0050	ATS	3550B
Methoxychlor	ND		1	0.310	1.00	ug/kg	04/06/23 07:57	04/07/23 21:19	B3D0050	ATS	3550B
Toxaphene	ND		1	4.10	50.0	ug/kg	04/06/23 07:57	04/07/23 21:19	B3D0050	ATS	3550B
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*39.3%*				*30-150*		04/06/23 07:57	*04/07/23 21:19*	B3D0050	*ATS*	3550B
Surrogate: Tetrachloro-m-xylene	*41.8%*				*30-150*		04/06/23 07:57	*04/07/23 21:19*	B3D0050	*ATS*	3550B

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Parsons	AETL Job Number:	BED0009	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 12:39	

Analytical Results

Client ID: **SB-16-D0.5-Dup**
Lab ID: **BED0009-27 (Soil)** **Sampled:** **04/03/23 13:44**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method

Organochlorine Pesticides (Continued)

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Parsons	AETL Job Number:	BED0009	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 12:39	

Analytical Results

Client ID: SB-54-D0.5
Lab ID: BED0009-30 (Soil) **Sampled: 04/03/23 14:05**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Lead	**4.13**	J	1	0.550	5.00	mg/kg	04/05/23 10:05	04/06/23 13:42	B3D0044	DT	3050B
Organochlorine Pesticides											
Method: EPA 8081A											
Aldrin	ND		1	0.0900	1.00	ug/kg	04/06/23 07:57	04/07/23 21:36	B3D0050	ATS	3550B
alpha-Chlordane	ND		1	0.121	1.00	ug/kg	04/06/23 07:57	04/07/23 21:36	B3D0050	ATS	3550B
gamma-Chlordane	ND		1	0.114	1.00	ug/kg	04/06/23 07:57	04/07/23 21:36	B3D0050	ATS	3550B
Chlordane (Total)	ND		1	1.00	2.00	ug/kg	04/06/23 07:57	04/07/23 21:36	B3D0050	ATS	3550B
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	ND		1	0.0620	1.00	ug/kg	04/06/23 07:57	04/07/23 21:36	B3D0050	ATS	3550B
alpha-Hexachlorocyclohexane (Alpha-BHC)	ND		1	0.0710	1.00	ug/kg	04/06/23 07:57	04/07/23 21:36	B3D0050	ATS	3550B
beta-Hexachlorocyclohexane (Betta-BHC)	ND		1	0.217	1.00	ug/kg	04/06/23 07:57	04/07/23 21:36	B3D0050	ATS	3550B
delta-Hexachlorocyclohexane (Delta-BHC)	ND		1	0.0880	1.00	ug/kg	04/06/23 07:57	04/07/23 21:36	B3D0050	ATS	3550B
4,4'-DDD (DDD)	ND		1	0.0980	1.00	ug/kg	04/06/23 07:57	04/07/23 21:36	B3D0050	ATS	3550B
4,4'-DDE (DDE)	ND		1	0.0930	1.00	ug/kg	04/06/23 07:57	04/07/23 21:36	B3D0050	ATS	3550B
4,4'-DDT (DDT)	ND		1	0.235	1.00	ug/kg	04/06/23 07:57	04/07/23 21:36	B3D0050	ATS	3550B
Dieldrin	ND		1	0.0950	1.00	ug/kg	04/06/23 07:57	04/07/23 21:36	B3D0050	ATS	3550B
Endrin	ND		1	0.106	1.00	ug/kg	04/06/23 07:57	04/07/23 21:36	B3D0050	ATS	3550B
Endrin aldehyde	ND		1	0.117	1.00	ug/kg	04/06/23 07:57	04/07/23 21:36	B3D0050	ATS	3550B
Endrin ketone	ND		1	0.122	1.00	ug/kg	04/06/23 07:57	04/07/23 21:36	B3D0050	ATS	3550B
Endosulfan 1	ND		1	0.115	1.00	ug/kg	04/06/23 07:57	04/07/23 21:36	B3D0050	ATS	3550B
Endosulfan 11	ND		1	0.177	1.00	ug/kg	04/06/23 07:57	04/07/23 21:36	B3D0050	ATS	3550B
Endosulfan sulfate	ND		1	0.0470	1.00	ug/kg	04/06/23 07:57	04/07/23 21:36	B3D0050	ATS	3550B
Heptachlor	ND		1	0.206	1.00	ug/kg	04/06/23 07:57	04/07/23 21:36	B3D0050	ATS	3550B
Heptachlor epoxide	ND		1	0.101	1.00	ug/kg	04/06/23 07:57	04/07/23 21:36	B3D0050	ATS	3550B
Methoxychlor	ND		1	0.310	1.00	ug/kg	04/06/23 07:57	04/07/23 21:36	B3D0050	ATS	3550B
Toxaphene	ND		1	4.10	50.0	ug/kg	04/06/23 07:57	04/07/23 21:36	B3D0050	ATS	3550B
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*55.0%*				*30-150*		04/06/23 07:57	*04/07/23 21:36*	B3D0050	*ATS*	3550B
Surrogate: Tetrachloro-m-xylene	*53.8%*				*30-150*		04/06/23 07:57	*04/07/23 21:36*	B3D0050	*ATS*	3550B

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Parsons	AETL Job Number:	BED0009	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 12:39	

Analytical Results

Client ID: **SB-54-D0.5**
Lab ID: **BED0009-30 (Soil)** **Sampled:** **04/03/23 14:05**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method

Organochlorine Pesticides (Continued)

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Parsons	AETL Job Number:	BED0009	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 12:39	

Analytical Results

Client ID: SB-21-D0.5
Lab ID: BED0009-33 (Soil) **Sampled: 04/03/23 14:25**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Lead	**39.1**		1	0.550	5.00	mg/kg	04/05/23 10:05	04/06/23 13:45	B3D0044	DT	3050B
Organochlorine Pesticides											
Method: EPA 8081A											
Aldrin	ND		1	0.0900	1.00	ug/kg	04/06/23 07:57	04/07/23 21:53	B3D0050	ATS	3550B
alpha-Chlordane	**0.519**	J	1	0.121	1.00	ug/kg	04/06/23 07:57	04/07/23 21:53	B3D0050	ATS	3550B
gamma-Chlordane	**0.353**	J	1	0.114	1.00	ug/kg	04/06/23 07:57	04/07/23 21:53	B3D0050	ATS	3550B
Chlordane (Total)	ND		1	1.00	2.00	ug/kg	04/06/23 07:57	04/07/23 21:53	B3D0050	ATS	3550B
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	ND		1	0.0620	1.00	ug/kg	04/06/23 07:57	04/07/23 21:53	B3D0050	ATS	3550B
alpha-Hexachlorocyclohexane (Alpha-BHC)	ND		1	0.0710	1.00	ug/kg	04/06/23 07:57	04/07/23 21:53	B3D0050	ATS	3550B
beta-Hexachlorocyclohexane (Betta-BHC)	ND		1	0.217	1.00	ug/kg	04/06/23 07:57	04/07/23 21:53	B3D0050	ATS	3550B
delta-Hexachlorocyclohexane (Delta-BHC)	ND		1	0.0880	1.00	ug/kg	04/06/23 07:57	04/07/23 21:53	B3D0050	ATS	3550B
4,4'-DDD (DDD)	**0.120**	J	1	0.0980	1.00	ug/kg	04/06/23 07:57	04/07/23 21:53	B3D0050	ATS	3550B
4,4'-DDE (DDE)	**1.09**		1	0.0930	1.00	ug/kg	04/06/23 07:57	04/07/23 21:53	B3D0050	ATS	3550B
4,4'-DDT (DDT)	**1.12**		1	0.235	1.00	ug/kg	04/06/23 07:57	04/07/23 21:53	B3D0050	ATS	3550B
Dieldrin	**0.784**	J	1	0.0950	1.00	ug/kg	04/06/23 07:57	04/07/23 21:53	B3D0050	ATS	3550B
Endrin	ND		1	0.106	1.00	ug/kg	04/06/23 07:57	04/07/23 21:53	B3D0050	ATS	3550B
Endrin aldehyde	ND		1	0.117	1.00	ug/kg	04/06/23 07:57	04/07/23 21:53	B3D0050	ATS	3550B
Endrin ketone	ND		1	0.122	1.00	ug/kg	04/06/23 07:57	04/07/23 21:53	B3D0050	ATS	3550B
Endosulfan 1	ND		1	0.115	1.00	ug/kg	04/06/23 07:57	04/07/23 21:53	B3D0050	ATS	3550B
Endosulfan 11	ND		1	0.177	1.00	ug/kg	04/06/23 07:57	04/07/23 21:53	B3D0050	ATS	3550B
Endosulfan sulfate	ND		1	0.0470	1.00	ug/kg	04/06/23 07:57	04/07/23 21:53	B3D0050	ATS	3550B
Heptachlor	ND		1	0.206	1.00	ug/kg	04/06/23 07:57	04/07/23 21:53	B3D0050	ATS	3550B
Heptachlor epoxide	ND		1	0.101	1.00	ug/kg	04/06/23 07:57	04/07/23 21:53	B3D0050	ATS	3550B
Methoxychlor	ND		1	0.310	1.00	ug/kg	04/06/23 07:57	04/07/23 21:53	B3D0050	ATS	3550B
Toxaphene	ND		1	4.10	50.0	ug/kg	04/06/23 07:57	04/07/23 21:53	B3D0050	ATS	3550B
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*53.1%*				*30-150*		04/06/23 07:57	*04/07/23 21:53*	B3D0050	*ATS*	3550B
Surrogate: Tetrachloro-m-xylene	*52.0%*				*30-150*		04/06/23 07:57	*04/07/23 21:53*	B3D0050	*ATS*	3550B

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A KYZER LABS COMPANY

Parsons	AETL Job Number:	BED0009	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 12:39	

Analytical Results

Client ID: **SB-21-D0.5**
Lab ID: **BED0009-33 (Soil)** **Sampled:** **04/03/23 14:25**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method

Organochlorine Pesticides (Continued)

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Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/11/2023 12:39

Quality Control Results

Metals Total (EPA 6010B)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0044 - 3050B					**Prepared: 04/05/2023 10:05**						
Method Blank (B3D0044-BLK1)					**Analyzed: 04/06/2023 12:28**						
Cadmium	ND	1.27	2.45	mg/kg							
Lead	ND	0.550	5.00	mg/kg							
Nickel	ND	2.45	4.90	mg/kg							

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100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/11/2023 12:39

Quality Control Results

Metals Total (EPA 6010B)

Analyte	Result		RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0044 - 3050B (Continued)					**Prepared: 04/05/2023 10:05**						
LCS (B3D0044-BS1)					**Analyzed: 04/06/2023 12:31**						
Cadmium	99.6		2.45	mg/kg	98.0		102	75-125			
Lead	99.9		5.00	mg/kg	98.0		102	75-125			
Nickel	102		4.90	mg/kg	98.0		104	75-125			
LCSD (B3D0044-BSD1)					**Analyzed: 04/06/2023 12:34**						
Cadmium	100		2.48	mg/kg	99.0		101	75-125	0.496	15	
Lead	99.3		5.00	mg/kg	99.0		100	75-125	0.558	15	
Nickel	102		4.95	mg/kg	99.0		104	75-125	0.743	15	
Duplicate (B3D0044-DUP1)		**Source: BED0009-01**			**Analyzed: 04/06/2023 12:39**						
Cadmium	ND	1.27	2.45	mg/kg		ND			NA	20	
Lead	13.5	0.550	5.00	mg/kg		11.5			15.9	20	
Nickel	16.2	2.45	4.90	mg/kg		18.9			15.6	20	
Matrix Spike (B3D0044-MS1)		**Source: BED0009-01**			**Analyzed: 04/06/2023 12:42**						
Cadmium	82.9	1.26	2.43	mg/kg	97.1	ND	85.4	75-125			
Lead	90.8	0.550	5.00	mg/kg	97.1	11.5	81.7	75-125			
Nickel	102	2.43	4.85	mg/kg	97.1	18.9	85.9	75-125			
Matrix Spike Dup (B3D0044-MSD1)		**Source: BED0009-01**			**Analyzed: 04/06/2023 12:45**						
Cadmium	84.1	1.30	2.50	mg/kg	100	ND	84.1	75-125	NA	15	
Lead	93.6	0.550	5.00	mg/kg	100	11.5	82.1	75-125	2.98	15	
Nickel	107	2.50	5.00	mg/kg	100	18.9	88.3	75-125	4.68	15	

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100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/11/2023 12:39

Quality Control Results

Metals Total (EPA 7471A)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0036 - 7471A					**Prepared: 04/05/2023 08:31**						
Method Blank (B3D0036-BLK1)					**Analyzed: 04/05/2023 12:45**						
Mercury	ND	0.0180	0.170	mg/kg							

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100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/11/2023 12:39

Quality Control Results

Metals Total (EPA 7471A)

Analyte	Result		RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0036 - 7471A (Continued)					**Prepared: 04/05/2023 08:31**						
LCS (B3D0036-BS1)					**Analyzed: 04/05/2023 12:47**						
Mercury	0.933		0.170	mg/kg	0.833		112	80-120			
LCSD (B3D0036-BSD1)					**Analyzed: 04/05/2023 12:49**						
Mercury	0.918		0.170	mg/kg	0.806		114	80-120	1.60	15	
Duplicate (B3D0036-DUP1)		**Source: BED0009-01**			**Analyzed: 04/05/2023 12:53**						
Mercury	ND	0.0180	0.170	mg/kg		ND			NA	15	
Matrix Spike (B3D0036-MS1)		**Source: BED0009-01**			**Analyzed: 04/05/2023 15:26**						
Mercury	1.05	0.0180	0.170	mg/kg	0.806	ND	130	75-125			M
Matrix Spike Dup (B3D0036-MSD1)		**Source: BED0009-01**			**Analyzed: 04/05/2023 12:57**						
Mercury	0.934	0.0180	0.170	mg/kg	0.806	ND	116	75-125	NA	15	

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Parsons	AETL Job Number:	BED0009	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/11/2023 12:39

Quality Control Results

Polynuclear Aromatic Hydrocarbons (EPA 8270C-SIM)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0076 - 3550B					**Prepared: 04/07/2023 10:32**						
Method Blank (B3D0076-BLK1)					**Analyzed: 04/07/2023 14:42**						
2-Methylnaphthalene	ND	0.00200	0.0125	mg/kg							
Acenaphthene	ND	0.0108	0.0250	mg/kg							
Acenaphthylene	ND	0.00937	0.0250	mg/kg							
Anthracene	ND	0.0112	0.0250	mg/kg							
Benzo(a)anthracene	ND	0.00896	0.0250	mg/kg							
Benzo(a)pyrene	ND	0.0121	0.0250	mg/kg							
Benzo(b)fluoranthene	ND	0.00764	0.0250	mg/kg							
Benzo(g,h,i)perylene	ND	0.0132	0.0250	mg/kg							
Benzo(k)fluoranthene	ND	0.0119	0.0250	mg/kg							
Chrysene	ND	0.00851	0.0250	mg/kg							
Dibenzo(a,h)anthracene	ND	0.0168	0.0250	mg/kg							
Fluoranthene	ND	0.0122	0.0250	mg/kg							
Fluorene	ND	0.0116	0.0250	mg/kg							
Indeno(1,2,3-cd)pyrene	ND	0.0171	0.0250	mg/kg							
Naphthalene	ND	0.00936	0.0250	mg/kg							
Phenanthrene	ND	0.0103	0.0250	mg/kg							
Pyrene	ND	0.00981	0.0250	mg/kg							
Surrogate: p-Terphenyl-D14	*0.110*			*mg/kg*	*0.100*		*110*	*40-130*			

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Parsons	AETL Job Number:	BED0009	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/11/2023 12:39

Quality Control Results

Polynuclear Aromatic Hydrocarbons (EPA 8270C-SIM)

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0076 - 3550B (Continued)				**Prepared: 04/07/2023 10:32**						
LCS (B3D0076-BS1)				**Analyzed: 04/07/2023 12:33**						
2-Methylnaphthalene	0.268	0.0125	mg/kg	0.250		107	40-150			
Acenaphthene	0.617	0.0250	mg/kg	0.500		123	40-150			
Acenaphthylene	1.08	0.0250	mg/kg	1.00		108	40-150			
Anthracene	0.0560	0.0250	mg/kg	0.0500		112	40-150			
Benzo(a)anthracene	0.0390	0.0250	mg/kg	0.0500		78.0	40-150			
Benzo(a)pyrene	0.0565	0.0250	mg/kg	0.0500		113	40-150			
Benzo(b)fluoranthene	0.0765	0.0250	mg/kg	0.100		76.5	40-150			
Benzo(g,h,i)perylene	0.102	0.0250	mg/kg	0.100		102	40-150			
Benzo(k)fluoranthene	0.0720	0.0250	mg/kg	0.0500		144	40-150			
Chrysene	0.0660	0.0250	mg/kg	0.0500		132	40-150			
Dibenzo(a,h)anthracene	0.0905	0.0250	mg/kg	0.100		90.5	40-150			
Fluoranthene	0.0845	0.0250	mg/kg	0.100		84.5	40-150			
Fluorene	0.118	0.0250	mg/kg	0.100		118	40-150			
Indeno(1,2,3-cd)pyrene	0.0535	0.0250	mg/kg	0.0500		107	40-150			
Naphthalene	0.559	0.0250	mg/kg	0.500		112	40-150			
Phenanthrene	0.0390	0.0250	mg/kg	0.0500		78.0	40-150			
Pyrene	0.0745	0.0250	mg/kg	0.0500		149	40-150			
Surrogate: p-Terphenyl-D14	*0.142*		*mg/kg*	*0.100*		*142*	*40-150*			
LCSD (B3D0076-BSD1)				**Analyzed: 04/07/2023 13:06**						
2-Methylnaphthalene	0.259	0.0125	mg/kg	0.250		104	40-150	3.23	30	
Acenaphthene	0.621	0.0250	mg/kg	0.500		124	40-150	0.646	30	
Acenaphthylene	1.10	0.0250	mg/kg	1.00		110	40-150	1.84	30	
Anthracene	0.0465	0.0250	mg/kg	0.0500		93.0	40-150	18.5	30	
Benzo(a)anthracene	0.0440	0.0250	mg/kg	0.0500		88.0	40-150	12.0	30	
Benzo(a)pyrene	0.0565	0.0250	mg/kg	0.0500		113	40-150	0.00	30	
Benzo(b)fluoranthene	0.0735	0.0250	mg/kg	0.100		73.5	40-150	4.00	30	
Benzo(g,h,i)perylene	0.112	0.0250	mg/kg	0.100		112	40-150	8.86	30	
Benzo(k)fluoranthene	0.0740	0.0250	mg/kg	0.0500		148	40-150	2.74	30	
Chrysene	0.0640	0.0250	mg/kg	0.0500		128	40-150	3.08	30	
Dibenzo(a,h)anthracene	0.110	0.0250	mg/kg	0.100		110	40-150	19.5	30	
Fluoranthene	0.0845	0.0250	mg/kg	0.100		84.5	40-150	0.00	30	
Fluorene	0.115	0.0250	mg/kg	0.100		115	40-150	3.00	30	
Indeno(1,2,3-cd)pyrene	0.0640	0.0250	mg/kg	0.0500		128	40-150	17.9	30	
Naphthalene	0.568	0.0250	mg/kg	0.500		114	40-150	1.69	30	
Phenanthrene	0.0375	0.0250	mg/kg	0.0500		75.0	40-150	3.92	30	
Pyrene	0.0695	0.0250	mg/kg	0.0500		139	40-150	6.94	30	
Surrogate: p-Terphenyl-D14	*0.144*		*mg/kg*	*0.100*		*144*	*40-150*			

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	Project Name:	Canoga Park High School	Reported:	04/11/2023 12:39	

Quality Control Results

Polynuclear Aromatic Hydrocarbons (EPA 8270C-SIM)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0076 - 3550B (Continued)					**Prepared: 04/07/2023 10:32**						
Matrix Spike (B3D0076-MS1)		**Source: BED0011-29**			**Analyzed: 04/07/2023 13:38**						
2-Methylnaphthalene	0.171	0.00199	0.0124	mg/kg	0.248	ND	68.8	40-150			
Acenaphthene	0.470	0.0108	0.0248	mg/kg	0.497	ND	94.6	40-150			
Acenaphthylene	0.862	0.00931	0.0248	mg/kg	0.994	ND	86.8	40-150			
Anthracene	0.0283	0.0111	0.0248	mg/kg	0.0497	ND	57.0	40-150			
Benzo(a)anthracene	0.0303	0.00890	0.0248	mg/kg	0.0497	ND	61.0	40-150			
Benzo(a)pyrene	0.0293	0.0120	0.0248	mg/kg	0.0497	ND	59.0	40-150			
Benzo(b)fluoranthene	0.0392	0.00759	0.0248	mg/kg	0.0994	ND	39.5	40-150			M
Benzo(g,h,i)perylene	0.0427	0.0131	0.0248	mg/kg	0.0994	ND	43.0	40-150			
Benzo(k)fluoranthene	0.0442	0.0118	0.0248	mg/kg	0.0497	ND	89.0	40-150			
Chrysene	0.0537	0.00846	0.0248	mg/kg	0.0497	ND	108	40-150			
Dibenzo(a,h)anthracene	0.0437	0.0167	0.0248	mg/kg	0.0994	ND	44.0	40-150			
Fluoranthene	0.0601	0.0121	0.0248	mg/kg	0.0994	ND	60.5	40-150			
Fluorene	0.0800	0.0115	0.0248	mg/kg	0.0994	ND	80.5	40-150			
Indeno(1,2,3-cd)pyrene	0.0303	0.0169	0.0248	mg/kg	0.0497	ND	61.0	40-150			
Naphthalene	0.410	0.00930	0.0248	mg/kg	0.497	ND	82.6	40-150			
Phenanthrene	0.0253	0.0103	0.0248	mg/kg	0.0497	ND	51.0	40-150			
Pyrene	0.0671	0.00975	0.0248	mg/kg	0.0497	ND	135	40-150			
Surrogate: p-Terphenyl-D14	*0.0859*			*mg/kg*	*0.0994*		*86.5*	*40-150*			
Matrix Spike Dup (B3D0076-MSD1)		**Source: BED0011-29**			**Analyzed: 04/07/2023 14:10**						
2-Methylnaphthalene	0.165	0.00199	0.0124	mg/kg	0.249	ND	66.2	40-150	NA	30	
Acenaphthene	0.458	0.0108	0.0249	mg/kg	0.497	ND	92.1	40-150	NA	30	
Acenaphthylene	0.833	0.00932	0.0249	mg/kg	0.995	ND	83.8	40-150	NA	30	
Anthracene	0.0323	0.0112	0.0249	mg/kg	0.0497	ND	65.0	40-150	NA	30	
Benzo(a)anthracene	0.0264	0.00891	0.0249	mg/kg	0.0497	ND	53.0	40-150	NA	30	
Benzo(a)pyrene	0.0298	0.0121	0.0249	mg/kg	0.0497	ND	60.0	40-150	NA	30	
Benzo(b)fluoranthene	0.0373	0.00760	0.0249	mg/kg	0.0995	ND	37.5	40-150	NA	30	M
Benzo(g,h,i)perylene	0.0632	0.0131	0.0249	mg/kg	0.0995	ND	63.5	40-150	NA	30	R
Benzo(k)fluoranthene	0.0398	0.0118	0.0249	mg/kg	0.0497	ND	80.0	40-150	NA	30	
Chrysene	0.0492	0.00846	0.0249	mg/kg	0.0497	ND	99.0	40-150	NA	30	
Dibenzo(a,h)anthracene	0.0497	0.0167	0.0249	mg/kg	0.0995	ND	50.0	40-150	NA	30	
Fluoranthene	0.0567	0.0121	0.0249	mg/kg	0.0995	ND	57.0	40-150	NA	30	
Fluorene	0.0746	0.0115	0.0249	mg/kg	0.0995	ND	75.0	40-150	NA	30	
Indeno(1,2,3-cd)pyrene	0.0353	0.0170	0.0249	mg/kg	0.0497	ND	71.0	40-150	NA	30	
Naphthalene	0.397	0.00931	0.0249	mg/kg	0.497	ND	79.8	40-150	NA	30	
Phenanthrene	0.0239	0.0103	0.0249	mg/kg	0.0497	ND	48.0	40-150	NA	30	J
Pyrene	0.0562	0.00976	0.0249	mg/kg	0.0497	ND	113	40-150	NA	30	
Surrogate: p-Terphenyl-D14	*0.0746*			*mg/kg*	*0.0995*		*75.0*	*40-150*			

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A KYZER LABS COMPANY

Parsons	AETL Job Number:	BED0009	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/11/2023 12:39

Quality Control Results

Organochlorine Pesticides (EPA 8081A)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0050 - 3550B					**Prepared: 04/06/2023 07:57**						
Method Blank (B3D0050-BLK1)					**Analyzed: 04/07/2023 17:21**						
Aldrin	ND	0.0900	1.00	ug/kg							
alpha-Chlordane	ND	0.121	1.00	ug/kg							
gamma-Chlordane	ND	0.114	1.00	ug/kg							
Chlordane (Total)	ND	1.00	2.00	ug/kg							
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	ND	0.0620	1.00	ug/kg							
alpha-Hexachlorocyclohexane (Alpha-BHC)	ND	0.0710	1.00	ug/kg							
beta-Hexachlorocyclohexane (Betta-BHC)	ND	0.217	1.00	ug/kg							
delta-Hexachlorocyclohexane (Delta-BHC)	ND	0.0880	1.00	ug/kg							
4,4'-DDD (DDD)	ND	0.0980	1.00	ug/kg							
4,4'-DDE (DDE)	ND	0.0930	1.00	ug/kg							
4,4'-DDT (DDT)	ND	0.235	1.00	ug/kg							
Dieldrin	ND	0.0950	1.00	ug/kg							
Endrin	ND	0.106	1.00	ug/kg							
Endrin aldehyde	ND	0.117	1.00	ug/kg							
Endrin ketone	ND	0.122	1.00	ug/kg							
Endosulfan 1	ND	0.115	1.00	ug/kg							
Endosulfan 11	ND	0.177	1.00	ug/kg							
Endosulfan sulfate	ND	0.0470	1.00	ug/kg							
Heptachlor	ND	0.206	1.00	ug/kg							
Heptachlor epoxide	ND	0.101	1.00	ug/kg							
Methoxychlor	ND	0.310	1.00	ug/kg							
Toxaphene	ND	4.10	50.0	ug/kg							
Surrogate: Decachlorobiphenyl	*25.2*			*ug/kg*	*25.0*		*101*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*8.78*			*ug/kg*	*25.0*		*35.1*	*30-150*			

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100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/11/2023 12:39

Quality Control Results

Organochlorine Pesticides (EPA 8081A)

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0050 - 3550B (Continued)				**Prepared: 04/06/2023 07:57**						
LCS (B3D0050-BS1)				**Analyzed: 04/07/2023 14:49**						
Aldrin	17.9	1.00	ug/kg	25.0		71.7	50-150			
alpha-Chlordane	24.2	1.00	ug/kg	25.0		97.0	50-150			
gamma-Chlordane	27.2	1.00	ug/kg	25.0		109	50-150			
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	20.4	1.00	ug/kg	25.0		81.8	50-150			
alpha-Hexachlorocyclohexane (Alpha-BHC)	17.6	1.00	ug/kg	25.0		70.4	50-150			
beta-Hexachlorocyclohexane (Betta-BHC)	20.9	1.00	ug/kg	25.0		83.7	50-150			
delta-Hexachlorocyclohexane (Delta-BHC)	24.3	1.00	ug/kg	25.0		97.2	50-150			
4,4'-DDD (DDD)	24.5	1.00	ug/kg	25.0		97.9	50-150			
4,4'-DDE (DDE)	24.5	1.00	ug/kg	25.0		97.8	50-150			
4,4'-DDT (DDT)	27.7	1.00	ug/kg	25.0		111	50-150			
Dieldrin	25.9	1.00	ug/kg	25.0		104	50-150			
Endrin	18.8	1.00	ug/kg	25.0		75.3	50-150			
Endrin aldehyde	20.2	1.00	ug/kg	25.0		80.9	50-150			
Endrin ketone	27.0	1.00	ug/kg	25.0		108	50-150			
Endosulfan 1	23.6	1.00	ug/kg	25.0		94.4	50-150			
Endosulfan 11	23.1	1.00	ug/kg	25.0		92.3	50-150			
Endosulfan sulfate	25.0	1.00	ug/kg	25.0		100	50-150			
Heptachlor	23.6	1.00	ug/kg	25.0		94.4	50-150			
Heptachlor epoxide	24.3	1.00	ug/kg	25.0		97.1	50-150			
Methoxychlor	24.8	1.00	ug/kg	25.0		99.2	50-150			
Surrogate: Decachlorobiphenyl	*20.1*		*ug/kg*	*25.0*		*80.6*	*50-150*			
Surrogate: Tetrachloro-m-xylene	*9.96*		*ug/kg*	*25.0*		*39.8*	*50-150*			*S6*
LCS (B3D0050-BS2)				**Analyzed: 04/07/2023 15:57**						
Toxaphene	569	50.0	ug/kg	500		114	50-150			
Surrogate: Decachlorobiphenyl	*30.7*		*ug/kg*	*25.0*		*123*	*50-150*			
Surrogate: Tetrachloro-m-xylene	*35.2*		*ug/kg*	*25.0*		*141*	*50-150*			

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Parsons	AETL Job Number:	BED0009	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 12:39	

Quality Control Results

Organochlorine Pesticides (EPA 8081A)

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0050 - 3550B (Continued)				**Prepared: 04/06/2023 07:57**						
LCSD (B3D0050-BSD1)				**Analyzed: 04/07/2023 15:06**						
Aldrin	20.1	1.00	ug/kg	25.0		80.4	50-150	11.4	40	
alpha-Chlordane	24.5	1.00	ug/kg	25.0		97.9	50-150	0.928	40	
gamma-Chlordane	27.6	1.00	ug/kg	25.0		110	50-150	1.47	40	
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	22.4	1.00	ug/kg	25.0		89.6	50-150	9.16	40	
alpha-Hexachlorocyclohexane (Alpha-BHC)	20.7	1.00	ug/kg	25.0		82.7	50-150	16.0	40	
beta-Hexachlorocyclohexane (Betta-BHC)	22.5	1.00	ug/kg	25.0		89.9	50-150	7.15	40	
delta-Hexachlorocyclohexane (Delta-BHC)	24.7	1.00	ug/kg	25.0		98.9	50-150	1.67	40	
4,4'-DDD (DDD)	23.8	1.00	ug/kg	25.0		95.4	50-150	2.64	40	
4,4'-DDE (DDE)	24.4	1.00	ug/kg	25.0		97.8	50-150	0.0382	40	
4,4'-DDT (DDT)	26.8	1.00	ug/kg	25.0		107	50-150	3.11	40	
Dieldrin	25.9	1.00	ug/kg	25.0		104	50-150	0.204	40	
Endrin	21.6	1.00	ug/kg	25.0		86.3	50-150	13.7	40	
Endrin aldehyde	19.8	1.00	ug/kg	25.0		79.2	50-150	2.17	40	
Endrin ketone	23.3	1.00	ug/kg	25.0		93.3	50-150	14.4	40	
Endosulfan 1	23.8	1.00	ug/kg	25.0		95.3	50-150	1.00	40	
Endosulfan 11	22.7	1.00	ug/kg	25.0		91.0	50-150	1.39	40	
Endosulfan sulfate	24.0	1.00	ug/kg	25.0		96.2	50-150	4.06	40	
Heptachlor	25.1	1.00	ug/kg	25.0		101	50-150	6.37	40	
Heptachlor epoxide	24.9	1.00	ug/kg	25.0		99.5	50-150	2.40	40	
Methoxychlor	23.7	1.00	ug/kg	25.0		94.8	50-150	4.53	40	
Surrogate: Decachlorobiphenyl	*17.0*		*ug/kg*	*25.0*		*68.0*	*50-150*			
Surrogate: Tetrachloro-m-xylene	*10.6*		*ug/kg*	*25.0*		*42.4*	*50-150*			*S6*
LCSD (B3D0050-BSD2)				**Analyzed: 04/07/2023 16:14**						
Toxaphene	496	50.0	ug/kg	500		99.2	50-150	13.7	40	
Surrogate: Decachlorobiphenyl	*30.7*		*ug/kg*	*25.0*		*123*	*50-150*			
Surrogate: Tetrachloro-m-xylene	*33.7*		*ug/kg*	*25.0*		*135*	*50-150*			

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100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/11/2023 12:39

Quality Control Results

Organochlorine Pesticides (EPA 8081A)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0050 - 3550B (Continued)					**Prepared: 04/06/2023 07:57**						
Matrix Spike (B3D0050-MS1)		**Source: BED0008-01**			**Analyzed: 04/07/2023 15:23**						
Aldrin	13.7	0.0900	1.00	ug/kg	25.0	ND	54.9	40-150			
alpha-Chlordane	13.2	0.121	1.00	ug/kg	25.0	ND	53.0	40-150			
gamma-Chlordane	13.4	0.114	1.00	ug/kg	25.0	ND	53.7	40-150			
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	13.3	0.0620	1.00	ug/kg	25.0	ND	53.3	40-150			
alpha-Hexachlorocyclohexane (Alpha-BHC)	14.6	0.0710	1.00	ug/kg	25.0	ND	58.3	40-150			
beta-Hexachlorocyclohexane (Betta-BHC)	13.1	0.217	1.00	ug/kg	25.0	ND	52.5	40-150			
delta-Hexachlorocyclohexane (Delta-BHC)	12.8	0.0880	1.00	ug/kg	25.0	ND	51.4	40-150			
4,4'-DDD (DDD)	14.9	0.0980	1.00	ug/kg	25.0	ND	59.5	40-150			
4,4'-DDE (DDE)	14.2	0.0930	1.00	ug/kg	25.0	ND	56.6	40-150			
4,4'-DDT (DDT)	19.4	0.235	1.00	ug/kg	25.0	ND	77.8	40-150			
Dieldrin	15.2	0.0950	1.00	ug/kg	25.0	ND	60.6	40-150			
Endrin	13.6	0.106	1.00	ug/kg	25.0	ND	54.2	40-150			
Endrin aldehyde	13.4	0.117	1.00	ug/kg	25.0	ND	53.5	40-150			
Endrin ketone	16.6	0.122	1.00	ug/kg	25.0	ND	66.5	40-150			
Endosulfan 1	13.4	0.115	1.00	ug/kg	25.0	ND	53.8	40-150			
Endosulfan 11	14.4	0.177	1.00	ug/kg	25.0	ND	57.5	40-150			
Endosulfan sulfate	15.1	0.0470	1.00	ug/kg	25.0	ND	60.5	40-150			
Heptachlor	15.7	0.206	1.00	ug/kg	25.0	ND	62.7	40-150			
Heptachlor epoxide	13.6	0.101	1.00	ug/kg	25.0	ND	54.6	40-150			
Methoxychlor	17.0	0.310	1.00	ug/kg	25.0	ND	67.9	40-150			
Surrogate: Decachlorobiphenyl	*15.6*			*ug/kg*	*25.0*		*62.5*	*40-150*			
Surrogate: Tetrachloro-m-xylene	*13.4*			*ug/kg*	*25.0*		*53.7*	*40-150*			
Matrix Spike (B3D0050-MS2)		**Source: BED0008-01**			**Analyzed: 04/07/2023 16:31**						
Toxaphene	332	4.10	50.0	ug/kg	500	ND	66.4	40-150			
Surrogate: Decachlorobiphenyl	*24.6*			*ug/kg*	*25.0*		*98.4*	*40-150*			
Surrogate: Tetrachloro-m-xylene	*25.4*			*ug/kg*	*25.0*		*101*	*40-150*			

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100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/11/2023 12:39

Quality Control Results

Organochlorine Pesticides (EPA 8081A)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0050 - 3550B (Continued)					**Prepared: 04/06/2023 07:57**						
Matrix Spike Dup (B3D0050-MSD2)		**Source: BED0008-01**			**Analyzed: 04/07/2023 16:48**						
Toxaphene	322	4.10	50.0	ug/kg	500	ND	64.4	40-150	NA	40	
Surrogate: Decachlorobiphenyl	*23.6*			*ug/kg*	*25.0*		*94.3*	*40-150*			
Surrogate: Tetrachloro-m-xylene	*26.6*			*ug/kg*	*25.0*		*106*	*40-150*			

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Parsons	AETL Job Number:	BED0009	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/11/2023 12:39

Quality Control Results

PCBs (EPA 8082)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0052 - 3550B					**Prepared: 04/06/2023 08:18**						
Method Blank (B3D0052-BLK1)					**Analyzed: 04/06/2023 11:24**						
Aroclor-1016 (PCB-1016)	ND	11.6	25.0	ug/kg							
Aroclor-1221 (PCB-1221)	ND	8.11	25.0	ug/kg							
Aroclor-1232 (PCB-1232)	ND	15.2	25.0	ug/kg							
Aroclor-1242 (PCB-1242)	ND	5.25	25.0	ug/kg							
Aroclor-1248 (PCB-1248)	ND	11.0	25.0	ug/kg							
Aroclor-1254 (PCB-1254)	ND	11.9	25.0	ug/kg							
Aroclor-1260 (PCB-1260)	ND	6.02	25.0	ug/kg							
Aroclor-1262 (PCB-1262)	ND	20.0	50.0	ug/kg							
Aroclor-1268 (PCB-1268)	ND	20.0	50.0	ug/kg							
Surrogate: Decachlorobiphenyl	*26.9*			*ug/kg*	*25.0*		*108*	*50-150*			
Surrogate: Tetrachloro-m-xylene	*19.7*			*ug/kg*	*25.0*		*78.7*	*50-150*			

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Parsons	AETL Job Number:	BED0009	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 12:39	

Quality Control Results

PCBs (EPA 8082)

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0052 - 3550B (Continued)				**Prepared: 04/06/2023 08:18**						
LCS (B3D0052-BS1)				**Analyzed: 04/06/2023 10:45**						
Aroclor-1016 (PCB-1016)	188	25.0	ug/kg	250		75.2	40.3-151			
Aroclor-1260 (PCB-1260)	272	25.0	ug/kg	250		109	39.4-151			
Surrogate: Decachlorobiphenyl	*29.3*		*ug/kg*	*25.0*		*117*	*50-150*			
Surrogate: Tetrachloro-m-xylene	*25.7*		*ug/kg*	*25.0*		*103*	*50-150*			
LCSD (B3D0052-BSD1)				**Analyzed: 04/06/2023 11:05**						
Aroclor-1016 (PCB-1016)	158	25.0	ug/kg	250		63.2	40.3-151	17.3	30	
Aroclor-1260 (PCB-1260)	298	25.0	ug/kg	250		119	39.4-151	9.19	30	
Surrogate: Decachlorobiphenyl	*29.7*		*ug/kg*	*25.0*		*119*	*50-150*			
Surrogate: Tetrachloro-m-xylene	*25.1*		*ug/kg*	*25.0*		*100*	*50-150*			
Matrix Spike (B3D0052-MS1)	**Source: BED0019-01**			**Analyzed: 04/06/2023 14:55**						
Aroclor-1016 (PCB-1016)	181	11.6	25.0 ug/kg	250	ND	72.3	40.3-151			
Aroclor-1260 (PCB-1260)	184	6.02	25.0 ug/kg	250	ND	73.5	39.4-151			
Surrogate: Decachlorobiphenyl	*28.3*		*ug/kg*	*25.0*		*113*	*50-150*			
Surrogate: Tetrachloro-m-xylene	*13.6*		*ug/kg*	*25.0*		*54.5*	*50-150*			
Matrix Spike Dup (B3D0052-MSD1)	**Source: BED0019-01**			**Analyzed: 04/06/2023 15:14**						
Aroclor-1016 (PCB-1016)	186	11.6	25.0 ug/kg	250	ND	74.2	40.3-151	NA	30	
Aroclor-1260 (PCB-1260)	213	6.02	25.0 ug/kg	250	ND	85.1	39.4-151	NA	30	
Surrogate: Decachlorobiphenyl	*20.4*		*ug/kg*	*25.0*		*81.6*	*50-150*			
Surrogate: Tetrachloro-m-xylene	*15.2*		*ug/kg*	*25.0*		*60.7*	*50-150*			

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100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/11/2023 12:39

Qualifiers and Definitions

Item	Qualifiers
J	Analyte was detected. However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Reporting Limit (RL).
M	The spike recovery for this QC sample is outside of established control limits possibly due to sample matrix interference. Laboratory Control Samples(LCS/LCSD) recovery were acceptable.
R	The RPD was outside of QC acceptance limits due to possible matrix interference.
S6	Surrogate recovery is outside control limits due to matrix interference.

Item	Definitions
% wt	Percent Weight
%REC	Percent Recovery
°F	Degrees Fahrenheit
AETL	American Environmental Testing Laboratory, LLC
C	Carbon
CARB	California Air Resources Board
COC	Chain of Custody
Cresols	3-methylphenol/4-methylphenol coelute and cannot be chromatographically separated. Due to this coeluting isomer pair phenomenon, the laboratory uses a single cresol (4-methylphenol) as calibration standard for 3-methylphenol/4-methylphenol.
CRM	Certified Reference Material
DPD	Department of Planning and Development
DRO	Diesel Range Organics
Dup	Duplicate
ELAP	Environmental Laboratory Accreditation Program
EPA	Environmental Protection Agency
GC/FID	Gas Chromatography Flame Ionization Detection
GRO	Gasoline Range Organics
HC	Hydrocarbon
HEM	Hexane Extractable Material
HMU	Hazardous Material Unit
ICP/MS	Inductively Coupled Plasma Mass Spectrometry
LACSD	Los Angeles County Sanitation Districts
LCS	Laboratory Control Sample - A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes.
LCSD	Laboratory Control Sample Duplicate - A replicate of Laboratory Control Sample.
LOQ	Limit of Quantitation
MDL	Method Detection Limit - The minimum measured concentration of a substance that can be reported with 99% confidence. MDL is statistically derived number which is specific for each instrument, each method and each compound.
mg/kg	Miligrams per Kilogram
mg/L	Miligrams per Liter

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

Parsons	AETL Job Number:	BED0009	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/11/2023 12:39

ml/L/hr	Milliliter per Liter per Hour
MRO	Motor oil Range Organics
MS	Matrix Spike - A sample prepared, taken through all sample preparation and analytical steps of the procedure and analyzed as an independent test results.
MSD	Matrix Spike Duplicate - A replicate of Matrix Spike Sample.
N	No
ND	Analyte is not detected below Method Detection Limit.
ng/m3	Nanograms per cubic meter
NIOSH	National Institute for Occupational Safety and Health
nL/L	Nanoliters per Liter
NTU	Nephelometric Turbidity Units
Ohm-cm	Ohms per centimeter
ORO	Oil Range Organics
OSHA	Occupational Safety and Health Administration
PCB	Polychlorinated Biphenyl
PSU	Practical Salinity Unit
RL	Reporting Limit - The lowest concentration at which an analyte can be detected in a sample and its concentration can be reported with a specified degree of confidence, accuracy and precision. For usage at AETL, RL is equivalant to LOQ.
RPD	Relative Percent Difference
SIM	Selective Ion Monitoring
SM	Standard Method
SPLP	Synthetic Precipitation Leaching Procedure
STLC	Soluble Threshold Limit Concentration
TCLP	Toxicity Characteristic Leaching Procedure
TPH	Total Petroleum Hydrocarbons
TTLC	Total Threshold Limit Concentrations
ug/kg	Micrograms per Kilogram
ug/L	Micrograms per Liter
ug/m3	Micrograms per cubic meter
WET	Waste Extraction Test
Y	Yes
ZHE	Zero Headspace Extraction

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

AIH LABORATORY
2556 W Woodland Dr Anaheim, CA 92801

BULK ASBESTOS FIBER ANALYSIS

BY POLARIZED LIGHT MICROSCOPY

NVLAP TESTING
NVLAP LAB CODE 500079-0
Phone:(562) 860-2201
www.aihlab.com

Client Name: American Environmental Testing Laboratory
Project Manager: Joe Sevrean
Client Address: 2840 North Naomi Street Burbank, CA 91504
Project Number: Work Order: BED009 / PO# SMPL-35250
Project Location: No Information Provided

Lab Batch Number: 2307481
Samples Submitted: 2
Samples Analyzed: 2
Analysis Method: EPA 600/R-93-116 & EPA 600/M4-82-020

Lab ID: 230748101 **Client ID:** BED0009-01

Layer	Layer Description	**Asbestos Type %**	Other Fibrous Material %	Other Non Fibrous Material
1.	Brown soil sandy material	**None Detected**	Cellulose <1%	Binder/Filler, Mineral Grains

Lab ID: 230748102 **Client ID:** BED0009-02

Layer	Layer Description	**Asbestos Type %**	Other Fibrous Material %	Other Non Fibrous Material
1.	Brown soil sandy material	**None Detected**	Cellulose <1%	Binder/Filler, Mineral Grains

Analyzed by: Don Nguyen **Signature:** **Date:** 04-06-2023

Reviewed by: Zubair Ahmed **Signature:** **Date:** 04-06-2023

Reporting limit is 1%. If the sample was not collected by AIH Laboratory then the accuracy of the res and experience of the sample collector. Clients can verify specific reporting limit requirement from lo limited to cost of samples analysis. This report shall not be reproduced except in full, without written not be used to claim product endorsement by NVLAP or any other agency of the government. Repor samples tested and may not be the representative of the sample area. AIH Laboratory shall dispose after receiving the samples unless instructed to store them for an alternate period of time in writing.



April 10, 2023

Hailley Coleman
American Environmental Testing Laboratory, Inc.
2834 N. Naomi Street
Burbank, CA 91504

TEL: (818) 845-8200
FAX:

Workorder No.: N055799

RE: BED0009

Attention: Hailley Coleman

Enclosed are the results for sample(s) received on April 04, 2023 by ASSET Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562) 219-7435 if I can be of further assistance to your company.

Sincerely,



Ferdinand Paul Lugtu
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and ASSET Laboratories - California.

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

All sample containers were received intact with proper chain of custody documentation.

Information on sample receipt conditions including discrepancies can be found in attached Sample Receipt Checklist Form.

Cooler temperature and sample preservation were verified upon receipt of samples if applicable.

Samples were analyzed within method holding time.

Analytical Comments for EPA 7199:

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria possibly due to matrix interference. The associated Laboratory Control Sample (LCS) recovery was acceptable.

ASSET Laboratories

Date: *10-Apr-23*

CLIENT: American Environmental Testing Laborator
Project: BED0009
Lab Order: N055799
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N055799-001A	BED0009-01	Soil	4/3/2023 12:17:00 PM	4/4/2023	4/10/2023
N055799-002A	BED0009-02	Soil	4/3/2023 12:22:00 PM	4/4/2023	4/10/2023

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BED0009-01
Lab Order:	N055799		
Project:	BED0009	**Collection Date:**	4/3/2023 12:17:00 PM
Lab ID:	N055799-001	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC						
EPA 3060A			**EPA 7199**			
RunID: CA01638-IC01_230406B	QC Batch: 98964			PrepDate:	4/5/2023	Analyst: **CR**
Hexavalent Chromium	ND	0.20		mg/Kg	1	4/6/2023 10:37 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BED0009-02
Lab Order:	N055799		
Project:	BED0009	**Collection Date:**	4/3/2023 12:22:00 PM
Lab ID:	N055799-002	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC						
EPA 3060A			**EPA 7199**			
RunID: CA01638-IC01_230406B	QC Batch: 98964			PrepDate:	4/5/2023	Analyst: **CR**
Hexavalent Chromium	ND	0.20		mg/Kg	1	4/6/2023 11:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: American Environmental Testing Laboratory, Inc.
Work Order: N055799
Project: BED0009

ANALYTICAL QC SUMMARY REPORT

TestCode: CA_7199_S

Sample ID: **LCS-98964**	SampType: **LCS**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/5/2023**	RunNo: **171153**
Client ID: **LCSS**	Batch ID: **98964**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/6/2023**	SeqNo: **5139842**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	3.822	0.20	4.000	0	95.6	80	120				

Sample ID: **MB-98964**	SampType: **MBLK**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/5/2023**	RunNo: **171153**
Client ID: **PBS**	Batch ID: **98964**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/6/2023**	SeqNo: **5139843**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20									

Sample ID: **N055812-001A-REP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/5/2023**	RunNo: **171153**
Client ID: **ZZZZZZ**	Batch ID: **98964**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/6/2023**	SeqNo: **5139845**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20						0	0	20	

Sample ID: **N055812-001A-DUP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/5/2023**	RunNo: **171153**
Client ID: **ZZZZZZ**	Batch ID: **98964**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/6/2023**	SeqNo: **5139846**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20						0	0	20	

Sample ID: **N055812-001A-MS-I**	SampType: **MS**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/5/2023**	RunNo: **171153**
Client ID: **ZZZZZZ**	Batch ID: **98964**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/6/2023**	SeqNo: **5139850**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	680.136	20	650.8	0	105	75	125				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: American Environmental Testing Laboratory, Inc.
Work Order: N055799
Project: BED0009

ANALYTICAL QC SUMMARY REPORT

TestCode: CA_7199_S

Sample ID: **N055812-002A-REP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/5/2023**	RunNo: **171153**
Client ID: **ZZZZZZ**	Batch ID: **98964**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/6/2023**	SeqNo: **5139854**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.534	0.20						0.5317	0.361	20	

Sample ID: **N055812-003A-REP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/5/2023**	RunNo: **171153**
Client ID: **ZZZZZZ**	Batch ID: **98964**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/6/2023**	SeqNo: **5139856**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.072	0.20						0.07473	0	20	

Sample ID: **N055812-004A-REP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/5/2023**	RunNo: **171153**
Client ID: **ZZZZZZ**	Batch ID: **98964**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/6/2023**	SeqNo: **5139858**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20						0	0	20	

Sample ID: **N055812-005A-REP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/5/2023**	RunNo: **171153**
Client ID: **ZZZZZZ**	Batch ID: **98964**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/6/2023**	SeqNo: **5139860**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20						0	0	20	

Sample ID: **N055812-006A-REP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/5/2023**	RunNo: **171153**
Client ID: **ZZZZZZ**	Batch ID: **98964**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/6/2023**	SeqNo: **5139862**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20						0	0	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits

Calculations are based on raw values

- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: American Environmental Testing Laboratory, Inc.
Work Order: N055799
Project: BED0009

ANALYTICAL QC SUMMARY REPORT

TestCode: CA_7199_S

Sample ID: **N055799-001A-REP** SampType: **DUP** TestCode: **CA_7199_S** Units: **mg/Kg** Prep Date: **4/5/2023** RunNo: **171153**
Client ID: **ZZZZZZ** Batch ID: **98964** TestNo: **EPA 7199** **EPA 3060A** Analysis Date: **4/6/2023** SeqNo: **5139866**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20						0	0	20	

Sample ID: **N055799-002A-REP** SampType: **DUP** TestCode: **CA_7199_S** Units: **mg/Kg** Prep Date: **4/5/2023** RunNo: **171153**
Client ID: **ZZZZZZ** Batch ID: **98964** TestNo: **EPA 7199** **EPA 3060A** Analysis Date: **4/6/2023** SeqNo: **5139868**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20						0	0	20	

Sample ID: **N055801-001A-REP** SampType: **DUP** TestCode: **CA_7199_S** Units: **mg/Kg** Prep Date: **4/5/2023** RunNo: **171153**
Client ID: **ZZZZZZ** Batch ID: **98964** TestNo: **EPA 7199** **EPA 3060A** Analysis Date: **4/6/2023** SeqNo: **5139870**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20						0	0	20	

Sample ID: **N055812-001A-MS** SampType: **MS** TestCode: **CA_7199_S** Units: **mg/Kg** Prep Date: **4/5/2023** RunNo: **171153**
Client ID: **ZZZZZZ** Batch ID: **98964** TestNo: **EPA 7199** **EPA 3060A** Analysis Date: **4/7/2023** SeqNo: **5139873**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	2.740	0.20	4.007	0	68.4	75	125				S

Sample ID: **N055812-001A-MSD** SampType: **MSD** TestCode: **CA_7199_S** Units: **mg/Kg** Prep Date: **4/5/2023** RunNo: **171153**
Client ID: **ZZZZZZ** Batch ID: **98964** TestNo: **EPA 7199** **EPA 3060A** Analysis Date: **4/7/2023** SeqNo: **5139874**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	2.720	0.20	4.005	0	67.9	75	125	3.975	37.5	20	SR

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

AMERICAN ENVIRONMENTAL TESTING LABORATORY, LLC
2840 North Naomi Street, Burbank, CA 91504 • ELAP# 1541 • LACSD# 10181
Telephone (888) 288-AETL • (818) 845-8200 • www.aetlab.com

SUBCONTRACT CHAIN of CUSTODY

Sending Laboratory:

AETL
AETL, LLC. 2840 N. Naomi Street
Burbank, CA 91504
Phone: 818-845-8200
Project Manager: Hailley Coleman
Email: hcoleman@aetlab.com

Subcontracted Laboratory:

ASSET Laboratories
11110 Artesia Blvd.
Cerritos, CA 90703
Phone: (702)307-2659
Fax: (562)219-7435

Work Order: BED0009 PO #SUB-35249

Analysis	Due	Expires	Comments
Sample ID: BED0009-01 *Soil* *Sampled: 04/03/2023 12:17*			N055799-001
7199 (Chromium Hexavalent by Ion Chromatography)	04/10/2023	05/01/2023 12:17	
Containers Supplied:			
Sample ID: BED0009-02 *Soil* *Sampled: 04/03/2023 12:22*			-002
7199 (Chromium Hexavalent by Ion Chromatography)	04/10/2023	05/01/2023 12:22	
Containers Supplied:			

OA: 2.9°C IR#1

Approved by: HAILLEY COLEMAN 4/4/23
AETL Project Manager — Date

Released By AETL Sample Control — Date 4-4-23 1305

Released By Courier — Date

Received By Courier — Date

Received By Subcontract Laboratory 4/4/2023 1305 — Date

ASSET Laboratories

Please review the checklist below. Any NO signifies non-compliance. Any non-compliance will be noted and must be understood as having an impact on the quality of the data. All tests will be performed as requested regardless of any compliance issues.

If you have any questions or further instruction, please contact our Project Coordinator at (702) 307-2659.

Cooler Received/Opened On:	4/4/2023	Workorder:	N055799
Rep sample Temp (Deg C):	2.8	IR Gun ID:	1
Temp Blank:	☐ Yes ☑ No		
Carrier name:	Walk-In		
Last 4 digits of Tracking No.:	NA	Packing Material Used:	None
Cooling process:	☑ Ice ☐ Ice Pack ☐ Dry Ice ☐ Other ☐ None		

Sample Receipt Checklist

1. Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
2. Custody seals intact, signed, dated on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
3. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
4. Chain of custody present?	Yes ☑	No ☐	
5. Sampler's name present in COC?	Yes ☐	No ☑	
6. Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
7. Chain of custody agrees with sample labels?	Yes ☑	No ☐	
8. Samples in proper container/bottle?	Yes ☑	No ☐	
9. Sample containers intact?	Yes ☑	No ☐	
10. Sufficient sample volume for indicated test?	Yes ☑	No ☐	
11. All samples received within holding time?	Yes ☑	No ☐	
12. Temperature of rep sample or Temp Blank within acceptable limit?	Yes ☑	No ☐	NA ☐
13. Water - VOA vials have zero headspace?	Yes ☐	No ☐	NA ☑
14. Water - pH acceptable upon receipt? Example: pH > 12 for (CN,S); pH<2 for Metals	Yes ☐	No ☐	NA ☑
15. Did the bottle labels indicate correct preservatives used?	Yes ☐	No ☐	NA ☑
16. Were there Non-Conformance issues at login?	Yes ☑	No ☐	NA ☐
Was Client notified?	Yes ☐	No ☐	NA ☑

Comments:

Checklist Completed By: MR 4/4/2023

Reviewed By:



ASSET Laboratories

WORK ORDER Summary

04-Apr-23

WorkOrder: N055799

Client ID: AETL01

Project: BED0009 **QC Level:** RTNE **Date Received:** 4/4/2023 1:05 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N055799-001A	BED0009-01	4/3/2023 12:17:00 PM	4/11/2023	Soil	EPA 3060A	Prep for Hexavalent Chromium	☐	☐	☐	WS-CA
			4/11/2023		EPA 7199	Hexavalent Chromium by IC	☐	☐	☐	WS-CA
N055799-002A	BED0009-02	4/3/2023 12:22:00 PM	4/11/2023		EPA 3060A	Prep for Hexavalent Chromium	☐	☐	☐	WS-CA
			4/11/2023		EPA 7199	Hexavalent Chromium by IC	☐	☐	☐	WS-CA
N055799-003A	FOLDER	4/11/2023	4/11/2023		Folder	Folder	☐	☐	☐	LAB
			4/11/2023		Folder	Folder	☐	☐	☐	LAB

Orange Coast Analytical, Inc.
3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (480) 736-0960 Fax (480) 736-0970

LABORATORY REPORT FORM

ORANGE COAST ANALYTICAL, INC.

3002 Dow Suite 532 Tustin, CA 92780

(714) 832-0064

Laboratory Certification (ELAP) No.:2576
Expiration Date: 2023
Los Angeles County Sanitation District Lab ID# 10206

Laboratory Director's Name:
Mark Noorani

Client:	American Environmental Testing Laboratory
Laboratory Reference:	AETL 27819
Project Name:	BED0009
Project Number:	
Date Received:	4/4/2023
Date Reported:	4/10/2023
Chain of Custody Received:	☑
Analytical Method:	6020,

Mark Noorani, Laboratory Director

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Rev1.0

Ms. Hailley Coleman
American Environmental Testing Laboratory
2840 Naomi St
Burbank, CA, 91504

Lab Reference #: AETL 27819
Project Name: BED0009
Project #:

Case Narrative

Sample Receipt:

All samples on the Chain of Custody were received by OCA at 10ºC, on ice.

Holding Times:

All samples were analyzed within required holding times unless otherwise noted in the data qualifier section of the report.

Analytical Methods:

Sample analysis was performed following the analytical methods listed on the cover page.

Data Qualifiers:

Within this report, data qualifiers may have been assigned to clarify deviations in common laboratory procedures or any divergence from laboratory QA/QC criteria. If a data qualifier has been used, it will appear in the back of the report along with its description. All method QA/QC criteria have been met unless otherwise noted in the data qualifier section.

Definition of Terms:

The definitions of common terms and acronyms used in the report have been placed at the back of the report to assist data users.

Comments:

None

Ms. Hailley Coleman
American Environmental Testing Laboratory
2840 Naomi St
Burbank, CA, 91504

Lab Reference #: AETL 27819
Project Name: BED0009
Project #:

Client Sample Summary

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0009-01	27819-001	4/4/2023	4/3/2023	Soil
BED0009-02	27819-002	4/4/2023	4/3/2023	Soil
BED0009-05	27819-003	4/4/2023	4/3/2023	Soil
BED0009-08	27819-004	4/4/2023	4/3/2023	Soil
BED0009-11	27819-005	4/4/2023	4/3/2023	Soil
BED0009-14	27819-006	4/4/2023	4/3/2023	Soil
BED0009-17	27819-007	4/4/2023	4/3/2023	Soil
BED0009-20	27819-008	4/4/2023	4/3/2023	Soil
BED0009-23	27819-009	4/4/2023	4/3/2023	Soil
BED0009-26	27819-010	4/4/2023	4/3/2023	Soil
BED0009-27	27819-011	4/4/2023	4/3/2023	Soil
BED0009-30	27819-012	4/4/2023	4/3/2023	Soil
BED0009-33	27819-013	4/4/2023	4/3/2023	Soil

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Ms. Hailley Coleman
American Environmental Testing Laboratory
2840 Naomi St
Burbank, CA, 91504

Lab Reference #: AETL 27819
Project Name: BED0009
Project #:

Metals

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0009-01	27819-001	4/4/2023 14:45	4/3/2023 12:17	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	66	mg/kg	04/05/23 10:00	04/06/23 12:27	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0009-02	27819-002	4/4/2023 14:45	4/3/2023 12:22	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	75	mg/kg	04/05/23 10:00	04/06/23 12:48	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0009-05	27819-003	4/4/2023 14:45	4/3/2023 12:27	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	5.8	mg/kg	04/05/23 10:00	04/06/23 12:51	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0009-08	27819-004	4/4/2023 14:45	4/3/2023 9:35	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	7.0	mg/kg	04/05/23 10:00	04/06/23 12:54	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0009-11	27819-005	4/4/2023 14:45	4/3/2023 10:00	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	9.9	mg/kg	04/05/23 10:00	04/06/23 12:57	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0009-14	27819-006	4/4/2023 14:45	4/3/2023 10:55	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	10	mg/kg	04/05/23 10:00	04/06/23 13:01	--	1

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Ms. Hailley Coleman
American Environmental Testing Laboratory
2840 Naomi St
Burbank, CA, 91504

Lab Reference #: AETL 27819
Project Name: BED0009
Project #:

Metals

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0009-17	27819-007	4/4/2023 14:45	4/3/2023 11:55	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	11	mg/kg	04/05/23 10:00	04/06/23 13:04	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0009-20	27819-008	4/4/2023 14:45	4/3/2023 12:54	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	4.0	mg/kg	04/05/23 10:00	04/06/23 13:07	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0009-23	27819-009	4/4/2023 14:45	4/3/2023 13:24	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	4.6	mg/kg	04/05/23 10:00	04/06/23 13:10	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0009-26	27819-010	4/4/2023 14:45	4/3/2023 13:39	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	6.6	mg/kg	04/05/23 10:00	04/06/23 13:13	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0009-27	27819-011	4/4/2023 14:45	4/3/2023 13:44	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	18	mg/kg	04/05/23 10:00	04/06/23 13:22	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0009-30	27819-012	4/4/2023 14:45	4/3/2023 14:05	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	19	mg/kg	04/05/23 10:00	04/06/23 13:25	--	1

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Ms. Hailley Coleman
American Environmental Testing Laboratory
2840 Naomi St
Burbank, CA, 91504

Lab Reference #: AETL 27819
Project Name: BED0009
Project #:

Metals

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0009-33	27819-013	4/4/2023 14:45	4/3/2023 14:25	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	4.0	mg/kg	04/05/23 10:00	04/06/23 13:28	--	1

Method Blank — Soil

MB ID	ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
MBIR0405231	Arsenic	6020	<1.0	mg/kg	04/05/23 10:00	04/06/23 12:17	--	1

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QA/QC Report
for
Metals

Reference #: AETL 27819 Reporting units: ppm

Matrix Spike (MS) / Matrix Spike Duplicate (MSD) **6020**

Laboratory Sample #: 27819-001 **Date of Extraction:** 04/05/23 10:00

Analyte	MS Date of Analysis	MSD Date of Analysis	R1	SPC CONC	MS	MSD	% MS	% MSD	RPD	ACP %MS	ACP RPD	Qualifiers
Arsenic	04/06/23 12:30	04/06/23 12:33	66.0	20.0	98.6	107	163	205	8	75-125	20	M3,

Laboratory Control Spike (LCS) / Laboratory Control Spike Duplicate (LCSD) **6020**

Laboratory Sample #: IR0405231 **Date of Extraction:** 04/05/23 10:00

Analyte	LCS Date of Analysis	LCSD Date of Analysis		SPC CONC	LCS	LCSD	% LCS	% LCSD	RPD	ACP %LCS	ACP RPD	Qualifiers
Arsenic	04/06/23 12:21	04/06/23 12:24	--	20.0	20.8	21.0	104	105	1	80-120	20	--

Data Qualifier Definitions

Qualifier

M3 = The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to spike level. The associated blank spike recovery was acceptable.

27819-001	6020 Soil	Arsenic	MS/MSD

Definition of terms:

R	Result of unspiked laboratory sample used for matrix spike determination.
SP CONC (or Spike Conc.)	Spike concentration added to sample or blank
MS	Matrix Spike sample result
MSD	Matrix Spike Duplicate sample result
%MS	Percent recovery of MS: {(MS-R1) / SP CONC} x100
%MSD	Percent recovery of MSD: {(MSD-R1) / SP CONC} x 100
RPD (for MS/MSD)	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2
LCS	Laboratory Control Sample result
LCSD	Laboratory Control Sample Duplicate result
%LCS	Percent recovery of LCS: {(LCS) / SP CONC} x100
%LCSD	Percent recovery of LCSD: {(LCSD) / SP CONC} x 100
RPD (for LCS/LCSD)	Relative Percent Difference: {(LCS-LCSD) / (LCS+LCSD)} x 100 x 2
ACP %LCS	Acceptable percent recovery range for Laboratory Control Samples.
ACP %MS	Acceptable percent recovery range for Matrix Spike samples
ACP RPD	Acceptable Relative Percent Difference
D	Detectable, result must be greater than zero
Qual	A checked box indicates a data qualifier was utilized and/or required for this analyte see attached explanation.
ND	Analyte Not Detected

27819

AMERICAN ENVIRONMENTAL TESTING LABORATORY, LLC
2840 North Naomi Street, Burbank, CA 91504 • ELAP# 1541 • LACSD# 10181
Telephone (888) 288-AETL • (818) 845-8200 • www.aetlab.com

SUBCONTRACT CHAIN of CUSTODY

Sending Laboratory:

AETL
AETL, LLC. 2840 N. Naomi Street
Burbank, CA 91504
Phone: 818-845-8200
Project Manager: Hailley Coleman
Email: hcoleman@aetlab.com

Subcontracted Laboratory:

Orange Coast Analytical. Inc.
3002 Dow Ave., Ste. 532
Tustin, CA 92780
Phone: (714) 832-0064
Fax:

Work Order: BED0009 PO# SUB-35251

Analysis	Due	Expires	Comments
Sample ID: BED0009-01 *Soil* *Sampled: 04/03/2023 12:17*			5-DAY TAT
6020-As (Arsenic, total by ICP/MS)	04/10/2023	09/30/2023 12:17	
Containers Supplied:			
2 **Sample ID: BED0009-02** *Soil* *Sampled: 04/03/2023 12:22*			
6020-As (Arsenic, total by ICP/MS)	04/10/2023	09/30/2023 12:22	
Containers Supplied:			
3 **Sample ID: BED0009-05** *Soil* *Sampled: 04/03/2023 12:27*			
6020-As (Arsenic, total by ICP/MS)	04/10/2023	09/30/2023 12:27	
Containers Supplied:			
1 **Sample ID: BED0009-08** *Soil* *Sampled: 04/03/2023 09:35*			
6020-As (Arsenic, total by ICP/MS)	04/10/2023	09/30/2023 09:35	
Containers Supplied:			
5 **Sample ID: BED0009-11** *Soil* *Sampled: 04/03/2023 10:00*			
6020-As (Arsenic, total by ICP/MS)	04/10/2023	09/30/2023 10:00	

ONIce 10+0=10°C
JF3

Approved by: HAILLEY COLEMAN 4/4/23
AETL Project Manager — Date

Released By AETL Sample Control	Date 1445	Received By Courier	Date 1445
Released By Courier	Date 4-4-23	Received By Subcontract Laboratory	Date 4/4/23

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SUBCONTRACT CHAIN of CUSTODY
(Continued)

Work Order: BED0009 (Continued)

Analysis	Due	Expires	Comments
Containers Supplied:			
Sample ID: BED0009-14 ***Soil*** ***Sampled: 04/03/2023 10:55***			
6020-As (Arsenic, total by ICP/MS)	04/10/2023	09/30/2023 10:55	
Containers Supplied:			
Sample ID: BED0009-17 ***Soil*** ***Sampled: 04/03/2023 11:55***			
6020-As (Arsenic, total by ICP/MS)	04/10/2023	09/30/2023 11:55	
Containers Supplied:			
Sample ID: BED0009-20 ***Soil*** ***Sampled: 04/03/2023 12:54***			
6020-As (Arsenic, total by ICP/MS)	04/10/2023	09/30/2023 12:54	
Containers Supplied:			
Sample ID: BED0009-23 ***Soil*** ***Sampled: 04/03/2023 13:24***			
6020-As (Arsenic, total by ICP/MS)	04/10/2023	09/30/2023 13:24	
Containers Supplied:			
Sample ID: BED0009-26 ***Soil*** ***Sampled: 04/03/2023 13:39***			
6020-As (Arsenic, total by ICP/MS)	04/10/2023	09/30/2023 13:39	
Containers Supplied:			
Sample ID: BED0009-27 ***Soil*** ***Sampled: 04/03/2023 13:44***			
6020-As (Arsenic, total by ICP/MS)	04/10/2023	09/30/2023 13:44	

Approved by: _____ _____
AETL Project Manager — Date

Released By AETL Sample Control	Date	Received By Courier	Date
	1445		
Released By Courier	4-4-23 Date	Received By Subcontract Laboratory	4/4/23 1445 Date

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SUBCONTRACT CHAIN of CUSTODY
(Continued)

Work Order: BED0009 (Continued)

Analysis	Due	Expires	Comments
Containers Supplied:			
Sample ID: BED0009-30 ***Soil*** ***Sampled: 04/03/2023 14:05***			
6020-As (Arsenic, total by ICP/MS)	04/10/2023	09/30/2023 14:05	
Containers Supplied:			
Sample ID: BED0009-33 ***Soil*** ***Sampled: 04/03/2023 14:25***			
6020-As (Arsenic, total by ICP/MS)	04/10/2023	09/30/2023 14:25	
Containers Supplied:			

Approved by: _____ _____
AETL Project Manager Date

Released By AETL Sample Control	Date	Received By Courier	Date
	1445		
	4-4-23		4/4/23 1449
Released By Courier	Date	Received By Subcontract Laboratory	Date

Sample Receipt Report

Laboratory Reference: AETL 27819 Logged in by: HC

Received:	04/04/23 14:45	Company Name:	American Environmental Testing Labo
Method of Shipment:	Hand Delivered	Project Manager:	Ms. Hailley Coleman
Shipping Container:	Cooler	Project Name:	BED0009
# Shipping Containers:	1	Project #:	

Sample Quantity
13 Soil

Chain of Custody		Complete ☑	Incomplete ☐	None ☐
Samples On Ice		Yes, Wet ☑	Yes, Blue ☐	No ☐
Observed Temp. (°C):	10	Thermometer ID: IR#3	Adjusted Temp.:	10+(-0)=10
Shipping Intact		Yes ☑	N/A ☐	No ☐
Shipping Custody Seals Intact		Yes ☐	N/A ☑	No ☐
Samples Intact		Yes ☑		No ☐
Sample Custody Seals Intact		Yes ☐	N/A ☑	No ☐
Custody Seals Signed & Dated		Yes ☐	N/A ☑	No ☐
Proper Test Containers		Yes ☑		No ☐
Proper Test Preservations		Yes ☑		No ☐
Samples Within Hold Times		Yes ☑		No ☐
VOAs Have Zero Headspace		Yes ☐	N/A ☑	No ☐
Sample Labels		Complete ☑	Incomplete ☐	None ☐
Sample Information Matches COC		Yes ☑	N/A ☐	No ☐

Notes

Client Notified _____ By _____ On _____

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A KYZER LABS COMPANY

April 19, 2023

AETL Job No: BED0009.01
Received Date: 04/03/2023
Project Number: [none]

Parsons
100 West Walnut Street
Pasadena, CA 91124
Telephone: (626) 440-6200

Attention: Justin King

Project Name: Canoga Park High School
Site: 6850 CA-27
Canoga Park, CA 91303

Enclosed please find the results of analyses for samples which were analyzed as specified on the attached chain of custody. If you have any questions concerning this report, please do not hesitate to call.

Checked By: Hailley Coleman
Hailley Coleman
Project Manager

Approved By: Joe Sevrean
Joe Sevrean
Laboratory Director

Table of Contents

Client Project Name: General Soil Testing Project Number: [none]
Work Order Number: BED0009

1 Cover Letter 1
2 Sample Condition on Receipt 3
3 Chain of Custody 4
4 Cooler Receipt Forms 7
5 Case Narrative 8
6 Samples Received 9
7 Positive Hits Summary 11
8 Analytical Results 12
9 Quality Control Results 13
10 Qualifiers and Definitions 15
11 Sub Contracted Analysis 17

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Parsons	AETL Job Number:	BED0009	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/19/2023 15:35

Sample Condition on Receipt

Cooler ID: Default Cooler **Temperature: 5.5 °C**

Are the COCs Correct	Y		
Labels Legible	Y	Containers In Good Condition	Y
COC/Labels Agree	Y	Samples Preserved Properly	Y
Sufficient Sample Volume	Y	Sufficient Holding Time for all Tests	Y
Sample Labels intact	Y	Received on Ice	Y

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

American Environmental Testing Laboratory Inc.

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CHAIN OF CUSTODY RECORD

108488

COMPANY: Parsons
PROJECT MANAGER: Justin Kim
COMPANY ADDRESS: 100 W. Walnut St. Pasadena, CA 91124
PHONE / FAX: (310) 809-5743
PROJECT NAME: Canoga Park High School
PROJECT #:
SITE NAME AND ADDRESS: 6850 CA-27, Canoga Park, CA 91303
PO #: 91303

AETL JOB No. BE-D0009

Page 1 of 3

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1	SB-26-D0.5	BE-D0009-01	4/3/2023	1217	Soil	1 4oz + 2 x 2oz	NONE
2	SB-26-D0.5-DUP	02		1222			
3	SB-26-D2.0	03		1226			
4	SB-26-D3.0	04		1230			
5	SB-24-D0.5	05		1027		1 x 4oz	
6	SB-24-D2.0	06		1033			
7	SB-24-D3.0	07		1040			
8	SB-23-D0.5	08		0935			
9	SB-23-D2.0	09		0939			
10	SB-23-D3.0	10		0945			
11	SB-25-D0.5	11		1000			
12	SB-25-D2.0	12		1005			
13	SB-25-D3.0	13		1011			
14	SB-27-D0.5	14		1055			
15	SB-27-D2.0	15		1103			

ANALYSIS REQUESTED

	Lead (6010B)	Arsenic (6020)	OCPs (8081A)	PCBs (8270C)	Asbestos (PLM)	PAHs (8270C)	Cr VI (7199)	Cd + Ni (6010B)	Mercury (7470A)	STLC-As	TEST INSTRUCTIONS & COMMENTS
1	X	X	X	X	X	X	X	X	X	X	
2	X	X	X	X	X	X	X	X	X	X	Duplicate
3		X									Hold
4											Hold
5	X	X	X	X			X				
6											Hold
7											Hold
8	X	X	X	X			X				
9											Hold
10											Hold
11	X	X	X				X				
12											Hold
13											Hold
14	X	X	X								
15											Hold

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y / N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

TURN AROUND TIME

☑ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY ☑ PDF ☐ GEOTRACKER (GLOBAL ID) _____ ☐ OTHER (PLEASE SPECIFY) _____

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: E. Debsys	Signature:	Signature:
Printed Name: Edward Debsys	Printed Name:	Printed Name:
Date: 4/3/2023 Time: 1545	Date: Time:	Date: Time:
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: 3.**
Signature:	Signature:	Signature:
Printed Name:	Printed Name:	Printed Name:
Date: Time:	Date: Time:	Date: Time:

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

CHAIN OF CUSTODY RECORD

108492

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut St. Pasadena, CA 91124
PHONE
FAX: (310) 809-5793
PROJECT NAME: Canoga Park Highschool
PROJECT #
SITE NAME AND ADDRESS: 6850 CA-27, Canoga Park, CA 91303
PO #

AETL JOB No. BED0009

ANALYSIS REQUESTED

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	OCPs (8081A)	TEST INSTRUCTIONS & COMMENTS
1	SB-27-D3.0	BED0009-16	4/3/2023	1109	Soil	1x9oz	NONE				Hold
2	SB-29-D0.5	17		1155				X	X	X	
3	SB-29-D2.0	18		1201							Hold
4	SB-29-D3.0	19		1204							Hold
5	SB-18-D0.5	20		1254				X	X	X	
6	SB-18-D2.0	21		1259							Hold
7	SB-18-D3.0	22		1303							Hold
8	SB-15-D0.5	23		1324				X	X	X	
9	SB-15-D2.0	24		1328							Hold
10	SB-15-D3.0	25		1332							Hold
11	SB-16-D0.5	26		1339				X	X	X	
12	SB-16-D0.5-DUP	27		1344				X	X	X	Duplicate
13	SB-16-D2.0	28		1347					X		Hold
14	SB-16-D3.0	29		1351							Hold
15	SB-54-D0.5	30		1405				X	X	X	

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y/ N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: [signature]	Signature:	Signature:
Printed Name: Edward Dabys	Printed Name:	Printed Name:
Date: 4/3/2023 Time: 1545	Date: Time:	Date: Time:

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: 3.
Signature:	Signature:	Signature: [signature] AETL
Printed Name:	Printed Name:	Printed Name: Greter Giroy Saasin
Date: Time:	Date: Time:	Date: 4/3/23 Time: 15:45

TURN AROUND TIME

☑ NORMAL ☐ RUSH
☐ SAME DAY
☐ NEXT DAY
☐ 2 DAYS
☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY
☑ PDF
☐ GEOTRACKER (GLOBAL ID) _____
☐ OTHER (PLEASE SPECIFY) _____

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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CHAIN OF CUSTODY RECORD

108489

AETL JOB No. BED0009

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut St. Pasadena, CA 91124
PHONE FAX: (310) 809-5793
PROJECT NAME: Canoga Park High School
PROJECT #:
SITE NAME AND ADDRESS: 6850 CA-27, Canoga Park, CA 91303
PO #:

ANALYSIS REQUESTED

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	OCPs (8081A)	7199							TEST INSTRUCTIONS & COMMENTS
1	SB-54-D2.0	BED0009 31	4/3/2023	1408	Soil	1x 9oz	NONE		X									Hold
2	SB-54-D3.0	32		1412														Hold
3	SB-21-D0.5	33		1425				X	X	X	X							
4	SB-21-D2.0	34		1428														Hold
5	SB-21-D3.0	35		1432														Hold
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		

E. Galm

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y/ N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: E. Galm	Signature:	Signature:
Printed Name: Edward Dabsys	Printed Name:	Printed Name:
Date: 4/3/2023 Time: 1545	Date: Time:	Date: Time:

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: AETL 3.
Signature:	Signature:	Signature:
Printed Name:	Printed Name:	Printed Name: Loreta Giragoosi
Date: Time:	Date: Time:	Date: 4/3/23 Time: 1545

TURN AROUND TIME

- [x] NORMAL
- [ ] RUSH
  - [ ] SAME DAY
  - [ ] NEXT DAY
  - [ ] 2 DAYS
  - [ ] 3 DAYS

DATA DELIVERABLE REQUIRED

- [ ] HARD COPY
- [x] PDF
- [ ] GEOTRACKER (GLOBAL ID) _____
- [ ] OTHER (PLEASE SPECIFY) _____

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

AMERICAN ENVIRONMENTAL TESTING LABORATORY
2840 North Naomi Street Burbank, CA 91504 • ELAP# 1541 & 2402 • LACSD# 10181
TEL (888) 288-AETL • (818) 845-8200 • www.aetlab.com
A KYZER LABS COMPANY

COOLER RECEIPT FORM

Client Name: Parsons

Project Name: Canoga Park High School Project No.:

AETL Job Number: BED0009

Date Received: 04-03-23 Received by: Greta G

Carrier: ☑ AETL Courier ☐ Client ☐ GSL ☐ FedEx ☐ UPS
☐Others:

Samples were received in: ☑ Cooler (__2_____) ☐ Other (Specify):

Sample Container Temperature: __5.5__ °C IR Gun S/N: 51941911MV

Type of sample containers: ☐ VOA, ☐ Glass bottles, ☑Wide mouth jars, ☐HDPE bottles, ☐ Metal sleeves, ☐ Acetate sleeves, ☐ 5035 Kit: ☐ AETL or ☐ Client, ☐ Tedlar Bags, Summa Canister: ☐ 6L, ☐ 3L, ☐ 1L, Others (Specify): _____

How are samples preserved: ☐ None, ☑ Ice, ☐ Blue Ice, ☐ Dry Ice
☑ None, ☐ HNO_3, ☐ NaOH, ☐ ZnOAc, ☐ HCl, ☐ $Na_2S_2O_3$, ☐ MeOH, ☐ $NaHSO_4$
☐ Other (Specify):

	Yes	No	N/A	Note or Comment
1. Are the COCs Correct?	✔			
2. Are Sample labels legible & indelible ink?	✔			
3. Do samples match the COC?	✔			
4. Are the required analyses clear?	✔			
5. Is there enough samples for required analysis?	✔			
6. Does cooler or samples have custody seal(s)?			✔	
7. Are sample containers in good condition?	✔			
8. Are samples preserved?	✔			
9. Are samples preserved properly for the intended analysis?	✔			
10. Are the VOAs free of headspace? See footnote.			✔	
11. Are the jars free of headspace?			✔	

* = see note below. N/A = Not Applicable

PLEASE NOTE ALL SAMPLES WILL BE DISPOSED OF 30 DAYS AFTER RECEIVING DATE. IF AETL IS INFORMED OTHERWISE, THERE WILL BE A STORAGE CHARGE PER SAMPLE PER MONTH FOR ANY SAMPLE HELD BEYOND 30 DAYS.

◯ Example maximum headspace bubble size; acceptance criteria not to exceed 5-6 mm in diameter.

For headspace bubbles exceeding 6 mm in diameter, sample receiving will tag the VOA and notify the Project Manager. The Project Manager will contact client for Analyze or Resample instructions.

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Parsons	AETL Job Number:	BED0009	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/19/2023 15:35

Case Narrative

The following "Sample Received" Section summarizes the samples received and associated analyses requested as specified on the enclosed chain of custody.

Results as reported by the laboratory apply only to 1) the items tested, 2) as the samples are received, and 3) the accuracy of information provided. Information supplied by the customer that may affect validity of results and may be contained in this report include Project Name/Number, Site Location, Sample Locations, Sampling Dates/Times, Sample ID, Sample Preservation, Sample Matrix, Sample Properties, Field Blanks, Field Duplicates, Field Spikes, and Site Historical Data.

Accreditation applies only to the test methods listed on each scope of accreditation held by the laboratory; certifications held by the laboratory may not apply to results supplied in this report.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

Qualifiers are noted in the report.

The samples were subcontracted to Orange Coast Analytical, Inc. for EPA 6020. Please see attached report for results.

The samples were subcontracted to Asset Laboratories for EPA 7199. Please see attached report for results.

The samples were subcontracted to AIH Laboratory for EPA-600R-93/116. Please see attached report for results.

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

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Parsons	AETL Job Number:	BED0009	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/19/2023 15:35	

Samples Received

AETL received the following samples on 04/03/2023 with the following specifications

Client ID	Sample Date
SB-26-D2.0	04/3/2023 12:26

Lab ID	Matrix	Quantity of Containers
BED0009-03	Soil	4

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Client ID	Sample Date
SB-23-D0.5	04/3/2023 9:35

Lab ID	Matrix	Quantity of Containers
BED0009-08	Soil	3

Method	Analyte	Units	TAT
EPA 8082	Polychlorinated Biphenyls (PCBs)	ug/kg	5

Client ID	Sample Date
SB-16-D2.0	04/3/2023 13:47

Lab ID	Matrix	Quantity of Containers
BED0009-28	Soil	2

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Client ID	Sample Date
SB-54-D2.0	04/3/2023 14:08

Lab ID	Matrix	Quantity of Containers
BED0009-31	Soil	2

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

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Parsons	AETL Job Number:	BED0009	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/19/2023 15:35

Total Number of Samples received: **4**

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Parsons	AETL Job Number:	BED0009	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/19/2023 15:35

Positive Hits Summary

Lab ID	Client ID					Sampled
Method	Analyte	Result	Qualifier	Unit		Analyzed

No positive results reported

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Parsons	AETL Job Number:	BED0009	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/19/2023 15:35	

Analytical Results

Client ID: SB-23-D0.5

Lab ID: BED0009-08 (Soil) **Sampled: 04/03/23 9:35**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
PCBs											
Method: EPA 8082											
Aroclor-1016 (PCB-1016)	ND		1	11.6	25.0	ug/kg	04/14/23 10:19	04/14/23 13:50	B3D0184	BC	3550B
Aroclor-1221 (PCB-1221)	ND		1	8.11	25.0	ug/kg	04/14/23 10:19	04/14/23 13:50	B3D0184	BC	3550B
Aroclor-1232 (PCB-1232)	ND		1	15.2	25.0	ug/kg	04/14/23 10:19	04/14/23 13:50	B3D0184	BC	3550B
Aroclor-1242 (PCB-1242)	ND		1	5.25	25.0	ug/kg	04/14/23 10:19	04/14/23 13:50	B3D0184	BC	3550B
Aroclor-1248 (PCB-1248)	ND		1	11.0	25.0	ug/kg	04/14/23 10:19	04/14/23 13:50	B3D0184	BC	3550B
Aroclor-1254 (PCB-1254)	ND		1	11.9	25.0	ug/kg	04/14/23 10:19	04/14/23 13:50	B3D0184	BC	3550B
Aroclor-1260 (PCB-1260)	ND		1	6.02	25.0	ug/kg	04/14/23 10:19	04/14/23 13:50	B3D0184	BC	3550B
Aroclor-1262 (PCB-1262)	ND		1	20.0	50.0	ug/kg	04/14/23 10:19	04/14/23 13:50	B3D0184	BC	3550B
Aroclor-1268 (PCB-1268)	ND		1	20.0	50.0	ug/kg	04/14/23 10:19	04/14/23 13:50	B3D0184	BC	3550B
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*56.7%*				*50-150*		04/14/23 10:19	*04/14/23 13:50*	B3D0184	*BC*	3550B
Surrogate: Tetrachloro-m-xylene	*42.4% S6*				*50-150*		04/14/23 10:19	*04/14/23 13:50*	B3D0184	*BC*	3550B

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Parsons	AETL Job Number:	BED0009	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/19/2023 15:35

Quality Control Results

PCBs (EPA 8082)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0184 - 3550B					**Prepared: 04/14/2023 10:19**						
Method Blank (B3D0184-BLK1)					**Analyzed: 04/14/2023 11:55**						
Aroclor-1016 (PCB-1016)	ND	11.6	25.0	ug/kg							
Aroclor-1221 (PCB-1221)	ND	8.11	25.0	ug/kg							
Aroclor-1232 (PCB-1232)	ND	15.2	25.0	ug/kg							
Aroclor-1242 (PCB-1242)	ND	5.25	25.0	ug/kg							
Aroclor-1248 (PCB-1248)	ND	11.0	25.0	ug/kg							
Aroclor-1254 (PCB-1254)	ND	11.9	25.0	ug/kg							
Aroclor-1260 (PCB-1260)	ND	6.02	25.0	ug/kg							
Aroclor-1262 (PCB-1262)	ND	20.0	50.0	ug/kg							
Aroclor-1268 (PCB-1268)	ND	20.0	50.0	ug/kg							
Surrogate: Decachlorobiphenyl	*29.0*			*ug/kg*	*25.0*		*116*	*50-150*			
Surrogate: Tetrachloro-m-xylene	*25.2*			*ug/kg*	*25.0*		*101*	*50-150*			

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Parsons	AETL Job Number:	BED0009	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/19/2023 15:35	

Quality Control Results

PCBs (EPA 8082)

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0184 - 3550B (Continued)				**Prepared: 04/14/2023 10:19**						
LCS (B3D0184-BS1)				**Analyzed: 04/14/2023 11:17**						
Aroclor-1016 (PCB-1016)	161	25.0	ug/kg	250		64.2	40.3-151			
Aroclor-1260 (PCB-1260)	290	25.0	ug/kg	250		116	39.4-151			
Surrogate: Decachlorobiphenyl	*25.4*		*ug/kg*	*25.0*		*102*	*50-150*			
Surrogate: Tetrachloro-m-xylene	*23.0*		*ug/kg*	*25.0*		*91.9*	*50-150*			
LCSD (B3D0184-BSD1)				**Analyzed: 04/14/2023 11:36**						
Aroclor-1016 (PCB-1016)	158	25.0	ug/kg	250		63.3	40.3-151	1.48	30	
Aroclor-1260 (PCB-1260)	284	25.0	ug/kg	250		114	39.4-151	2.00	30	
Surrogate: Decachlorobiphenyl	*27.2*		*ug/kg*	*25.0*		*109*	*50-150*			
Surrogate: Tetrachloro-m-xylene	*22.8*		*ug/kg*	*25.0*		*91.2*	*50-150*			

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Parsons	AETL Job Number:	BED0009	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/19/2023 15:35

Qualifiers and Definitions

Item	Qualifiers
S6	Surrogate recovery is outside control limits due to matrix interference.

Item	Definitions
% wt	Percent Weight
%REC	Percent Recovery
°F	Degrees Fahrenheit
AETL	American Environmental Testing Laboratory, LLC
C	Carbon
CARB	California Air Resources Board
COC	Chain of Custody
Cresols	3-methylphenol/4-methylphenol coelute and cannot be chromatographically separated. Due to this coeluting isomer pair phenomenon, the laboratory uses a single cresol (4-methylphenol) as calibration standard for 3-methylphenol/4-methylphenol.
CRM	Certified Reference Material
DPD	Department of Planning and Development
DRO	Diesel Range Organics
Dup	Duplicate
ELAP	Environmental Laboratory Accreditation Program
EPA	Environmental Protection Agency
GC/FID	Gas Chromatography Flame Ionization Detection
GRO	Gasoline Range Organics
HC	Hydrocarbon
HEM	Hexane Extractable Material
HMU	Hazardous Material Unit
ICP/MS	Inductively Coupled Plasma Mass Spectrometry
LACSD	Los Angeles County Sanitation Districts
LCS	Laboratory Control Sample - A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes.
LCSD	Laboratory Control Sample Duplicate - A replicate of Laboratory Control Sample.
LOQ	Limit of Quantitation
MDL	Method Detection Limit - The minimum measured concentration of a substance that can be reported with 99% confidence. MDL is statistically derived number which is specific for each instrument, each method and each compound.
mg/kg	Miligrams per Kilogram
mg/L	Miligrams per Liter
ml/L/hr	Milliliter per Liter per Hour
MRO	Motor oil Range Organics
MS	Matrix Spike - A sample prepared, taken through all sample preparation and analytical steps of the procedure and analyzed as an independent test results.
MSD	Matrix Spike Duplicate - A replicate of Matrix Spike Sample.

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Parsons	AETL Job Number:	BED0009	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/19/2023 15:35

N	No
ND	Analyte is not detected below Method Detection Limit.
ng/m3	Nanograms per cubic meter
NIOSH	National Institute for Occupational Safety and Health
nL/L	Nanoliters per Liter
NTU	Nephelometric Turbidity Units
Ohm-cm	Ohms per centimeter
ORO	Oil Range Organics
OSHA	Occupational Safety and Health Administration
PCB	Polychlorinated Biphenyl
PSU	Practical Salinity Unit
RL	Reporting Limit - The lowest concentration at which an analyte can be detected in a sample and its concentration can be reported with a specified degree of confidence, accuracy and precision. For usage at AETL, RL is equivalant to LOQ.
RPD	Relative Percent Difference
SIM	Selective Ion Monitoring
SM	Standard Method
SPLP	Synthetic Precipitation Leaching Procedure
STLC	Soluble Threshold Limit Concentration
TCLP	Toxicity Characteristic Leaching Procedure
TPH	Total Petroleum Hydrocarbons
TTLC	Total Threshold Limit Concentrations
ug/kg	Micrograms per Kilogram
ug/L	Micrograms per Liter
ug/m3	Micrograms per cubic meter
WET	Waste Extraction Test
Y	Yes
ZHE	Zero Headspace Extraction

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3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (480) 736-0960 Fax (480) 736-0970

LABORATORY REPORT FORM

ORANGE COAST ANALYTICAL, INC.

3002 Dow Suite 532 Tustin, CA 92780

(714) 832-0064

Laboratory Certification (ELAP) No.:2576
Expiration Date: 2023
Los Angeles County Sanitation District Lab ID# 10206

Laboratory Director's Name:
Mark Noorani

Client:	American Environmental Testing Laboratory
Laboratory Reference:	AETL 27847
Project Name:	BED0009.01
Project Number:	BED0009.01
Date Received:	4/12/2023
Date Reported:	4/19/2023
Chain of Custody Received:	☑
Analytical Method:	6020,

Mark Noorani, Laboratory Director

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Ms. Hailley Coleman
American Environmental Testing Laboratory
2840 Naomi St
Burbank, CA, 91504

Lab Reference #: AETL 27847
Project Name: BED0009.01
Project #: BED0009.01

Case Narrative

Sample Receipt:

All samples on the Chain of Custody were received by OCA at 3ºC, on ice.

Holding Times:

All samples were analyzed within required holding times unless otherwise noted in the data qualifier section of the report.

Analytical Methods:

Sample analysis was performed following the analytical methods listed on the cover page.

Data Qualifiers:

Within this report, data qualifiers may have been assigned to clarify deviations in common laboratory procedures or any divergence from laboratory QA/QC criteria. If a data qualifier has been used, it will appear in the back of the report along with its description. All method QA/QC criteria have been met unless otherwise noted in the data qualifier section.

Definition of Terms:

The definitions of common terms and acronyms used in the report have been placed at the back of the report to assist data users.

Comments:

None

Ms. Hailley Coleman
American Environmental Testing Laboratory
2840 Naomi St
Burbank, CA, 91504

Lab Reference #: AETL 27847
Project Name: BED0009.01
Project #: BED0009.01

Client Sample Summary

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0009-02	27847-001	4/12/2023	4/3/2023	Soil
BED0009-03	27847-002	4/12/2023	4/3/2023	Soil
BED0009-28	27847-003	4/12/2023	4/3/2023	Soil
BED0009-31	27847-004	4/12/2023	4/3/2023	Soil

Ms. Hailley Coleman
American Environmental Testing Laboratory
2840 Naomi St
Burbank, CA, 91504

Lab Reference #: AETL 27847
Project Name: BED0009.01
Project #: BED0009.01

Metals

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0009-03	27847-002	4/12/2023 15:02	4/3/2023 12:26	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	4.6	mg/kg	04/17/23 09:00	04/19/23 09:42	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0009-28	27847-003	4/12/2023 15:02	4/3/2023 13:47	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	1.9	mg/kg	04/17/23 09:00	04/19/23 09:45	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0009-31	27847-004	4/12/2023 15:02	4/3/2023 14:08	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	4.7	mg/kg	04/17/23 09:00	04/19/23 09:48	--	1

Method Blank							Soil
MB ID	ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
MBHV0417232	Arsenic	6020	<1.0	mg/kg	04/17/23 09:00	04/19/23 09:11	--	1

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QA/QC Report
for
Metals

Reference #: AETL 27847 Reporting units: ppm

Matrix Spike (MS) / Matrix Spike Duplicate (MSD) **6020**

Laboratory Sample #: 27845-001 **Date of Extraction:** 04/17/23 09:00

Analyte	MS Date of Analysis	MSD Date of Analysis	R1	SPC CONC	MS	MSD	% MS	% MSD	RPD	ACP %MS	ACP RPD	Qualifiers
Arsenic	04/19/23 09:24	04/19/23 09:27	5.40	20.0	25.8	26.3	102	104	2	75-125	20	--

Laboratory Control Spike (LCS) / Laboratory Control Spike Duplicate (LCSD) **6020**

Laboratory Sample #: HV0417232 **Date of Extraction:** 04/17/23 09:00

Analyte	LCS Date of Analysis	LCSD Date of Analysis		SPC CONC	LCS	LCSD	% LCS	% LCSD	RPD	ACP %LCS	ACP RPD	Qualifiers
Arsenic	04/19/23 09:15	04/19/23 09:18	--	20.0	21.8	20.9	109	104	4	80-120	20	--

Definition of terms:

R	Result of unspiked laboratory sample used for matrix spike determination.
SP CONC (or Spike Conc.)	Spike concentration added to sample or blank
MS	Matrix Spike sample result
MSD	Matrix Spike Duplicate sample result
%MS	Percent recovery of MS: {(MS-R1) / SP CONC} x100
%MSD	Percent recovery of MSD: {(MSD-R1) / SP CONC} x 100
RPD (for MS/MSD)	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2
LCS	Laboratory Control Sample result
LCSD	Laboratory Control Sample Duplicate result
%LCS	Percent recovery of LCS: {(LCS) / SP CONC} x100
%LCSD	Percent recovery of LCSD: {(LCSD) / SP CONC} x 100
RPD (for LCS/LCSD)	Relative Percent Difference: {(LCS-LCSD) / (LCS+LCSD)} x 100 x 2
ACP %LCS	Acceptable percent recovery range for Laboratory Control Samples.
ACP %MS	Acceptable percent recovery range for Matrix Spike samples
ACP RPD	Acceptable Relative Percent Difference
D	Detectable, result must be greater than zero
Qual	A checked box indicates a data qualifier was utilized and/or required for this analyte see attached explanation.
ND	Analyte Not Detected

27847 ~~27814~~ re 4/12/23

Analysis Request and Chain of Custody Record

Lab Job No: 27847
Page 1 of 1

ORANGE COAST ANALYTICAL, INC. www.ocalab.com

3002 Dow, Suite 532
Tustin, CA 92780
(714) 832-0064 Fax (714) 832-0067

4620 E. Elwood, Suite 4
Phoenix, AZ 85040
(480) 736-0960 Fax (480) 736-0970

REQUIRED TURN AROUND TIME: Standard: ✓
72 Hours: _____ 48 Hours: _____ 24 Hours: _____

CUSTOMER INFORMATION		PROJECT INFORMATION	
COMPANY:	American Environmental Testing L	PROJECT NAME:	BED0009.01
SEND REPORT TO:	Hailley Coleman	NUMBER:	BED0009.01
EMAIL:	hcoleman@aetlab.com	ADDRESS:	
ADDRESS:	2840 N. Naomi st.		
	Burbank, CA 91504	P.O. #:	SUB-35284 3
PHONE:	(818) 845-8200 FAX:	SAMPLED BY:	

	SAMPLE ID	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER TYPE	ANALYSIS REQUEST / PRESERVATIVE: STLC-6020-As	6020-As	REMARKS/PRECAUTIONS
1	BED0009-02	1	04/03/23	1222	SS		✓		
2	BED0009-03	1	04/03/23	1226	SS			✓	
3	BED0009-28	1	04/03/23	1347	SS			✓	
4	BED0009-31	1	04/03/23	1408	SS			✓	
	IF MORE SAMPLE IS NEEDED A								
	JAR OF THIS SAMPLE WAS								
	PREVIOUSLY SENT UNDER WORK								
	ORDER BED0009								

Total No. of Samples: 4 Method of Shipment:

Preservative: 1 = Ice 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Relinquished By: dfell	Date/Time: 4/12/23 1502	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received For Lab By: Heather Calb OCAA	Date/Time: 4/12/23 1502

Sample Matrix:
GW - Groundwater
WW - Wastewater
SW - Stormwater
DW - Drinking Water
W - Water
SS - Soil/Solid
OT - Other

JR 3

Sample Integrity:
Intact: _____ On Ice: (Yes) / No @ _____ °C
3+0=3C

By signing above, client acknowledges responsibility for payment of all services requested on this chain of custody form and any additional services provided in support of this project. Payment is due within 30 days of invoice date unless otherwise agreed upon, in writing, with Orange Coast Analytical, Inc. All samples remain the property of the client. A disposal fee may be imposed if client fails to pickup sample.

RE: Samples for STLC 6020-4/12/23

From: Miriam Molina (miriamm@ocalab.com)

To: hcoleman@aetlab.com

Cc: ocalab@sbcglobal.net

Date: Wednesday, April 12, 2023, 3:56 PM PDT

Will do. Thank you!

ORANGE COAST ANALYTICAL, INC.
Miriam Molina | Project Manager
3002 Dow Ave. Ste. 532 Tustin, CA, 92780
Office: 714-832-0064 Cell: 714-721-5914 (Call/Text)
miriamm@ocalab.com

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From: Hailley Coleman [mailto:hcoleman@aetlab.com]
Sent: Wednesday, April 12, 2023 3:48 PM
To: Miriam Molina <miriamm@ocalab.com>
Subject: RE: Samples for STLC 6020-4/12/23

Miriam,

Please cancel the STLC-6020 analysis. The client decided that we could run the STLC by 6010 which we do in-house. Please proceed with the total 6020-As on the other samples.

Thank you!

Hailley Coleman
Project Manager

How are we doing? Please click here for a short survey

AMERICAN ENVIRONMENTAL TESTING LABORATORY
A KYZER LABS COMPANY

AETL, LLC.
2840 N. Naomi St., Burbank, CA 91504
NorCal Office
3329 Vincent Rd., Pleasant Hill, CA 94523
T 818.845.8200 **C** 818.399.7095
SBE/VSBE/EBE hcoleman@aetlab.com
www.aetlab.com

ANAB
ANSI National Accreditation Board
ACCREDITED
TESTING LABORATORY

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From: Hailley Coleman

Sample Receipt Report

Laboratory Reference: **AETL 27847** Logged in by: HC

Received:	04/12/23 15:02	Company Name:	American Environmental Testing Labo
Method of Shipment:	Hand Delivered	Project Manager:	Ms. Hailley Coleman
Shipping Container:	Cooler	Project Name:	BED0009.01
# Shipping Containers:	1	Project #:	BED0009.01

Sample Quantity
4 Soil

Chain of Custody		Complete ☑	Incomplete ☐	None ☐
Samples On Ice		Yes, Wet ☑	Yes, Blue ☐	No ☐
Observed Temp. (°C):	3	Thermometer ID: IR#3	Adjusted Temp.:	3+(-0)=3
Shipping Intact		Yes ☑	N/A ☐	No ☐
Shipping Custody Seals Intact		Yes ☐	N/A ☑	No ☐
Samples Intact		Yes ☑		No ☐
Sample Custody Seals Intact		Yes ☐	N/A ☑	No ☐
Custody Seals Signed & Dated		Yes ☐	N/A ☑	No ☐
Proper Test Containers		Yes ☑		No ☐
Proper Test Preservations		Yes ☑		No ☐
Samples Within Hold Times		Yes ☑		No ☐
VOAs Have Zero Headspace		Yes ☐	N/A ☑	No ☐
Sample Labels		Complete ☑	Incomplete ☐	None ☐
Sample Information Matches COC		Yes ☑	N/A ☐	No ☐

Notes

Client Notified _____ By _____ On _____

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April 25, 2023

AETL Job No: BED0009.02
Received Date: 04/03/2023
Project Number: [none]

Parsons
100 West Walnut Street
Pasadena, CA 91124
Telephone: (626) 440-6200

Attention: Justin King

Project Name: Canoga Park High School
Site: 6850 CA-27
Canoga Park, CA 91303

Enclosed please find the results of analyses for samples which were analyzed as specified on the attached chain of custody. If you have any questions concerning this report, please do not hesitate to call.

Checked By: Hailley Coleman
Hailley Coleman
Project Manager

Approved By: Joe Sevrean
Joe Sevrean
Laboratory Director

Table of Contents

Client Project Name: General Soil Testing Project Number: [none]
Work Order Number: BED0009

1 Cover Letter 1
2 Sample Condition on Receipt 3
3 Chain of Custody 4
4 Cooler Receipt Forms 7
5 Case Narrative 8
6 Samples Received 9
7 Positive Hits Summary 11
8 Analytical Results 12
9 Quality Control Results 18
10 Qualifiers and Definitions 22
11 Sub Contracted Analysis 24

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Parsons	AETL Job Number:	BED0009	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/25/2023 13:09

Sample Condition on Receipt

Cooler ID: Default Cooler **Temperature: 5.5 °C**

Are the COCs Correct	Y		
Labels Legible	Y	Containers In Good Condition	Y
COC/Labels Agree	Y	Samples Preserved Properly	Y
Sufficient Sample Volume	Y	Sufficient Holding Time for all Tests	Y
Sample Labels intact	Y	Received on Ice	Y

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

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CHAIN OF CUSTODY RECORD

108488

COMPANY: Parsons
PROJECT MANAGER: Justin Kim
COMPANY ADDRESS: 100 W. Walnut St. Pasadena, CA 91124
PHONE / FAX: (310) 809-5743
PROJECT NAME: Canoga Park High School
PROJECT #:
SITE NAME AND ADDRESS: 6850 CA-27, Canoga Park, CA 91303
PO #: 91303

AETL JOB No. BE-D0009

Page 1 of 3

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1	SB-26-D0.5	BE-D0009-01	4/3/2023	1217	Soil	1 4oz + 2 x 2oz	NONE
2	SB-26-D0.5-DUP	02		1222			
3	SB-26-D2.0	03		1226			
4	SB-26-D3.0	04		1230			
5	SB-24-D0.5	05		1027		1 x 4oz	
6	SB-24-D2.0	06		1033			
7	SB-24-D3.0	07		1040			
8	SB-23-D0.5	08		0935			
9	SB-23-D2.0	09		0939			
10	SB-23-D3.0	10		0945			
11	SB-25-D0.5	11		1000			
12	SB-25-D2.0	12		1005			
13	SB-25-D3.0	13		1011			
14	SB-27-D0.5	14		1055			
15	SB-27-D2.0	15		1103			

ANALYSIS REQUESTED

	Lead (6010B)	Arsenic (6020)	OCPs (8081A)	PCBs (8270C)	Asbestos (PLM)	PAHs (8270C)	Cr VI (7199)	Cd + Ni (6010B)	Mercury (7470A)	STLC-As	TEST INSTRUCTIONS & COMMENTS
1	X	X	X	X	X	X	X	X	X	X	
2	X	X	X	X	X	X	X	X	X	X	Duplicate
3		X									Hold
4											Hold
5	X	X	X	X			X				
6											Hold
7											Hold
8	X	X	X	X			X				
9											Hold
10											Hold
11	X	X	X				X				
12											Hold
13											Hold
14	X	X	X								
15											Hold

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y / N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

TURN AROUND TIME

☑ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY ☑ PDF ☐ GEOTRACKER (GLOBAL ID) _____ ☐ OTHER (PLEASE SPECIFY) _____

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: E. Debsys	Signature:	Signature:
Printed Name: Edward Debsys	Printed Name:	Printed Name:
Date: 4/3/2023 Time: 1545	Date: Time:	Date: Time:
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: 3.**
Signature:	Signature:	Signature:
Printed Name:	Printed Name:	Printed Name:
Date: Time:	Date: Time:	Date: Time:

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CHAIN OF CUSTODY RECORD

108492

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut St. Pasadena, CA 91124
PHONE
FAX: (310) 809-5793
PROJECT NAME: Canoga Park Highschool
PROJECT #
SITE NAME AND ADDRESS: 6850 CA-27, Canoga Park, CA 91303
PO #

AETL JOB No. BED0009

ANALYSIS REQUESTED

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	OCPs (8081A)	TEST INSTRUCTIONS & COMMENTS
1	SB-27-D3.0	BED0009-16	4/3/2023	1109	Soil	1x9oz	NONE				Hold
2	SB-29-D0.5	17		1155				X	X	X	
3	SB-29-D2.0	18		1201							Hold
4	SB-29-D3.0	19		1204							Hold
5	SB-18-D0.5	20		1254				X	X	X	
6	SB-18-D2.0	21		1259							Hold
7	SB-18-D3.0	22		1303							Hold
8	SB-15-D0.5	23		1324				X	X	X	
9	SB-15-D2.0	24		1328							Hold
10	SB-15-D3.0	25		1332							Hold
11	SB-16-D0.5	26		1339				X	X	X	
12	SB-16-D0.5-DUP	27		1344				X	X	X	Duplicate
13	SB-16-D2.0	28		1347					X		Hold
14	SB-16-D3.0	29		1351							Hold
15	SB-54-D0.5	30		1405				X	X	X	

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y/ N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: [signature]	Signature:	Signature:
Printed Name: Edward Dabys	Printed Name:	Printed Name:
Date: 4/3/2023 Time: 1545	Date: Time:	Date: Time:

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: 3.
Signature:	Signature:	Signature: [signature] AETL
Printed Name:	Printed Name:	Printed Name: Greter Giroy Saasin
Date: Time:	Date: Time:	Date: 4/3/23 Time: 15:45

TURN AROUND TIME

☑ NORMAL ☐ RUSH
☐ SAME DAY
☐ NEXT DAY
☐ 2 DAYS
☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY
☑ PDF
☐ GEOTRACKER (GLOBAL ID) _____
☐ OTHER (PLEASE SPECIFY) _____

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CHAIN OF CUSTODY RECORD

108489

AETL JOB No. BED0009

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut St. Pasadena, CA 91124
PHONE FAX: (310) 809-5793
PROJECT NAME: Canoga Park High School
PROJECT #:
SITE NAME AND ADDRESS: 6850 CA-27, Canoga Park, CA 91303
PO #:

ANALYSIS REQUESTED

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	OCPs (8081A)	7199							TEST INSTRUCTIONS & COMMENTS
1	SB-54-D2.0	BED0009 31	4/3/2023	1408	Soil	1x 9oz	NONE		X									Hold
2	SB-54-D3.0	32		1412														Hold
3	SB-21-D0.5	33		1425				X	X	X	X							
4	SB-21-D2.0	34		1428														Hold
5	SB-21-D3.0	35		1432														Hold
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		

E. Galm

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y/ N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: E. Galm	Signature:	Signature:
Printed Name: Edward Dabsys	Printed Name:	Printed Name:
Date: 4/3/2023 Time: 1545	Date: Time:	Date: Time:

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: AETL 3.
Signature:	Signature:	Signature:
Printed Name:	Printed Name:	Printed Name: Loreta Giragoosi
Date: Time:	Date: Time:	Date: 4/3/23 Time: 1545

TURN AROUND TIME

- [x] NORMAL
- [ ] RUSH
  - [ ] SAME DAY
  - [ ] NEXT DAY
  - [ ] 2 DAYS
  - [ ] 3 DAYS

DATA DELIVERABLE REQUIRED

- [ ] HARD COPY
- [x] PDF
- [ ] GEOTRACKER (GLOBAL ID) _____
- [ ] OTHER (PLEASE SPECIFY) _____

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COOLER RECEIPT FORM

Client Name: Parsons

Project Name: Canoga Park High School Project No.:

AETL Job Number: BED0009

Date Received: 04-03-23 Received by: Greta G

Carrier: ☑ AETL Courier ☐ Client ☐ GSL ☐ FedEx ☐ UPS
☐Others:

Samples were received in: ☑ Cooler (__2_____) ☐ Other (Specify):

Sample Container Temperature: __5.5__ °C IR Gun S/N: 51941911MV

Type of sample containers: ☐ VOA, ☐ Glass bottles, ☑Wide mouth jars, ☐HDPE bottles, ☐ Metal sleeves, ☐ Acetate sleeves, ☐ 5035 Kit: ☐ AETL or ☐ Client, ☐ Tedlar Bags, Summa Canister: ☐ 6L, ☐ 3L, ☐ 1L, Others (Specify): _____

How are samples preserved: ☐ None, ☑ Ice, ☐ Blue Ice, ☐ Dry Ice
☑ None, ☐ HNO_3, ☐ NaOH, ☐ ZnOAc, ☐ HCl, ☐ $Na_2S_2O_3$, ☐ MeOH, ☐ $NaHSO_4$
☐ Other (Specify):

	Yes	No	N/A	Note or Comment
1. Are the COCs Correct?	✔			
2. Are Sample labels legible & indelible ink?	✔			
3. Do samples match the COC?	✔			
4. Are the required analyses clear?	✔			
5. Is there enough samples for required analysis?	✔			
6. Does cooler or samples have custody seal(s)?			✔	
7. Are sample containers in good condition?	✔			
8. Are samples preserved?	✔			
9. Are samples preserved properly for the intended analysis?	✔			
10. Are the VOAs free of headspace? See footnote.			✔	
11. Are the jars free of headspace?			✔	

* = see note below. N/A = Not Applicable

PLEASE NOTE ALL SAMPLES WILL BE DISPOSED OF 30 DAYS AFTER RECEIVING DATE. IF AETL IS INFORMED OTHERWISE, THERE WILL BE A STORAGE CHARGE PER SAMPLE PER MONTH FOR ANY SAMPLE HELD BEYOND 30 DAYS.

◯ Example maximum headspace bubble size; acceptance criteria not to exceed 5-6 mm in diameter.

For headspace bubbles exceeding 6 mm in diameter, sample receiving will tag the VOA and notify the Project Manager. The Project Manager will contact client for Analyze or Resample instructions.

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Parsons	AETL Job Number:	BED0009	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/25/2023 13:09

Case Narrative

The following "Sample Received" Section summarizes the samples received and associated analyses requested as specified on the enclosed chain of custody.

Results as reported by the laboratory apply only to 1) the items tested, 2) as the samples are received, and 3) the accuracy of information provided. Information supplied by the customer that may affect validity of results and may be contained in this report include Project Name/Number, Site Location, Sample Locations, Sampling Dates/Times, Sample ID, Sample Preservation, Sample Matrix, Sample Properties, Field Blanks, Field Duplicates, Field Spikes, and Site Historical Data.

Accreditation applies only to the test methods listed on each scope of accreditation held by the laboratory; certifications held by the laboratory may not apply to results supplied in this report.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

Qualifiers are noted in the report.

The samples were subcontracted to Orange Coast Analytical, Inc. for EPA 6020. Please see attached report for results.

The samples were subcontracted to Asset Laboratories for EPA 7199. Please see attached report for results.

The samples were subcontracted to AIH Laboratory for EPA-600R-93/116. Please see attached report for results.

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

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Parsons	AETL Job Number:	BED0009	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/25/2023 13:09	

Samples Received

AETL received the following samples on 04/03/2023 with the following specifications

Client ID: SB-26-D0.5 — **Sample Date:** 04/3/2023 12:17

Lab ID	Matrix	Quantity of Containers
BED0009-01	Soil	4

Method	Analyte	Units	TAT
EPA 6010B-STLC	STLC Arsenic by ICP	mg/L	5

Client ID: SB-26-D0.5-Dup — **Sample Date:** 04/3/2023 12:22

Lab ID	Matrix	Quantity of Containers
BED0009-02	Soil	4

Method	Analyte	Units	TAT
EPA 6010B-STLC	STLC Arsenic by ICP	mg/L	5

Client ID: SB-24-D0.5 — **Sample Date:** 04/3/2023 12:27

Lab ID	Matrix	Quantity of Containers
BED0009-05	Soil	3

Method	Analyte	Units	TAT
EPA 7199	Hexavalent Chromium by IC	mg/Kg	
EPA 7199	Chromium Hexavalent by Ion Chromatography	mg/kg	5

Client ID: SB-23-D0.5 — **Sample Date:** 04/3/2023 9:35

Lab ID	Matrix	Quantity of Containers
BED0009-08	Soil	3

Method	Analyte	Units	TAT
EPA 7199	Hexavalent Chromium by IC	mg/Kg	

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

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Parsons	AETL Job Number:	BED0009	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/25/2023 13:09

Samples Received
(Continued)

AETL received the following samples on 04/03/2023 with the following specifications

EPA 7199	Chromium Hexavalent by Ion Chromatography	mg/kg	5

Client ID: SB-25-D0.5 **Sample Date:** 04/3/2023 10:00

Lab ID: BED0009-11 **Matrix:** Soil **Quantity of Containers:** 3

Method	Analyte	Units	TAT
EPA 7199	Hexavalent Chromium by IC	mg/Kg	
EPA 7199	Chromium Hexavalent by Ion Chromatography	mg/kg	5

Client ID: SB-21-D0.5 **Sample Date:** 04/3/2023 14:25

Lab ID: BED0009-33 **Matrix:** Soil **Quantity of Containers:** 3

Method	Analyte	Units	TAT
EPA 7199	Hexavalent Chromium by IC	mg/Kg	
EPA 7199	Chromium Hexavalent by Ion Chromatography	mg/kg	5

Total Number of Samples received: 6

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Telephone (888) 288-AETL • (818) 845-8200 • www.aetlab.com
A KYZER LABS COMPANY

Parsons	AETL Job Number:	BED0009	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/25/2023 13:09

Positive Hits Summary

Lab ID	Client ID				Sampled
BED0009-01	SB-26-D0.5				04/03/2023 12:17
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B-STLC	Arsenic	1.99		mg/L	04/21/2023 16:02

Lab ID	Client ID				Sampled
BED0009-02	SB-26-D0.5-Dup				04/03/2023 12:22
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B-STLC	Arsenic	3.23		mg/L	04/18/2023 17:16

Lab ID	Client ID				Sampled
BED0009-33	SB-21-D0.5				04/03/2023 14:25
Method	Analyte	Result	Qualifier	Unit	Analyzed

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Parsons	AETL Job Number:	BED0009	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/25/2023 13:09	

Analytical Results

Client ID: SB-26-D0.5
Lab ID: BED0009-01 (Soil) **Sampled:** 04/03/23 12:17

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
STLC Analysis											
Method: EPA 6010B-STLC											
Arsenic	**1.99**		1	0.0100	0.0500	mg/L	04/20/23 12:00	04/21/23 16:02	B3D0259	LE	3050B

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Parsons	AETL Job Number:	BED0009	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/25/2023 13:09	

Analytical Results

Client ID: SB-26-D0.5-Dup
Lab ID: BED0009-02 (Soil) **Sampled:** 04/03/23 12:22

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
STLC Analysis											
Method: EPA 6010B-STLC											
Arsenic	**3.23**		1	0.0100	0.0500	mg/L	04/17/23 13:21	04/18/23 17:16	B3D0217	LE	3050B

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Parsons	AETL Job Number:	BED0009	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/25/2023 13:09	

Analytical Results

Testing conducted by: ASSET Laboratories

Client ID: SB-24-D0.5

Lab ID: BED0009-05 (Soil) **Sampled: 04/03/23 12:27**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Hexavalent Chromium by IC											
Method: EPA 7199											
Hexavalent Chromium	ND		1	0.063	0.20	mg/Kg	04/19/23 00:00	04/19/23 17:09	99253	CR	SW3060A

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Parsons	AETL Job Number:	BED0009	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/25/2023 13:09	

Analytical Results

Testing conducted by: ASSET Laboratories

Client ID: SB-23-D0.5

Lab ID: BED0009-08 (Soil) **Sampled: 04/03/23 9:35**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Hexavalent Chromium by IC											
Method: EPA 7199											
Hexavalent Chromium	ND		1	0.063	0.20	mg/Kg	04/19/23 00:00	04/19/23 18:52	99253	CR	SW3060A

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Parsons	AETL Job Number:	BED0009	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/25/2023 13:09	

Analytical Results

Testing conducted by: ASSET Laboratories

Client ID: SB-25-D0.5

Lab ID: BED0009-11 (Soil) **Sampled: 04/03/23 10:00**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Hexavalent Chromium by IC											
Method: EPA 7199											
Hexavalent Chromium	ND		1	0.063	0.20	mg/Kg	04/19/23 00:00	04/19/23 19:15	99253	CR	SW3060A

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Parsons	AETL Job Number:	BED0009	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/25/2023 13:09	

Analytical Results

Testing conducted by: ASSET Laboratories

Client ID: SB-21-D0.5

Lab ID: BED0009-33 (Soil) **Sampled: 04/03/23 14:25**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Hexavalent Chromium by IC											
Method: EPA 7199											
Hexavalent Chromium	**0.58**		1	0.063	0.20	mg/Kg	04/19/23 00:00	04/19/23 19:38	99253	CR	SW3060A

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Parsons	AETL Job Number:	BED0009	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/25/2023 13:09

Quality Control Results

STLC Analysis (EPA 6010B-STLC)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0217 - 3050B					**Prepared: 04/17/2023 13:21**						
Method Blank (B3D0217-BLK1)					**Analyzed: 04/18/2023 17:53**						
Arsenic	0.0170	0.0100	0.0500	mg/L							B1, J

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Parsons	AETL Job Number:	BED0009	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/25/2023 13:09

Quality Control Results

STLC Analysis (EPA 6010B-STLC)

Analyte	Result		RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0217 - 3050B (Continued)					**Prepared: 04/17/2023 13:21**						
LCS (B3D0217-BS1)					**Analyzed: 04/18/2023 17:56**						
Arsenic	18.1		0.0500	mg/L	20.0		90.5	75-125			
LCSD (B3D0217-BSD1)					**Analyzed: 04/18/2023 17:59**						
Arsenic	19.0		0.0500	mg/L	20.0		95.0	75-125	4.87	15	
Duplicate (B3D0217-DUP1)		**Source: BED0076-01**			**Analyzed: 04/18/2023 18:05**						
Arsenic	0.199	0.0100	0.0500	mg/L		0.184			7.89	15	
Batch: B3D0259 - 3050B					**Prepared: 04/20/2023 12:00**						
Method Blank (B3D0259-BLK1)					**Analyzed: 04/21/2023 15:10**						
Arsenic	0.0183	0.0100	0.0500	mg/L							B1, J

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Parsons	AETL Job Number:	BED0009	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/25/2023 13:09

Quality Control Results

STLC Analysis (EPA 6010B-STLC)

Analyte	Result		RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0259 - 3050B (Continued)					**Prepared: 04/20/2023 12:00**						
LCS (B3D0259-BS1)					**Analyzed: 04/21/2023 15:13**						
Arsenic	17.7		0.0500	mg/L	20.0		88.7	75-125			
LCSD (B3D0259-BSD1)					**Analyzed: 04/21/2023 15:17**						
Arsenic	18.1		0.0500	mg/L	20.0		90.3	75-125	1.83	15	
Duplicate (B3D0259-DUP1)		**Source: BED0016-04**			**Analyzed: 04/21/2023 15:23**						
Arsenic	9.58	0.0100	0.0500	mg/L		9.25			3.42	15	

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A KYZER LABS COMPANY

Parsons	AETL Job Number:	BED0009	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/25/2023 13:09	

Quality Control Results

Hexavalent Chromium by IC (EPA 7199)

Analyte	Result		RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: 99253 - SW3060A					**Prepared: 04/19/2023 00:00**						
LCS (LCS-99253)					**Analyzed: 04/19/2023 16:47**						
Hexavalent Chromium	3.703		0.20	mg/Kg	4.000	0	92.6	80-120			
MBLK (MB-99253)					**Analyzed: 04/19/2023 16:58**						
Hexavalent Chromium	0.000	0.063	0.20	mg/Kg		0		-			
MS (N055984-001A-MS)		**Source: BED0009-05**			**Analyzed: 04/19/2023 17:55**						
Hexavalent Chromium	3.766	0.063	0.20	mg/Kg	4.000	0	94.2	75-125			
MSD (N055984-001A-MSD)		**Source: BED0009-05**			**Analyzed: 04/19/2023 18:06**						
Hexavalent Chromium	3.817	0.063	0.20	mg/Kg	4.000	0	95.4	75-125	1.35	20	
MS (N055984-001A-MS-INSOLUBLE)		**Source: BED0009-05**			**Analyzed: 04/19/2023 21:18**						
Hexavalent Chromium	654.286	3.2	10	mg/Kg	650.0	0	101	75-125			

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Parsons	AETL Job Number:	BED0009	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/25/2023 13:09

Qualifiers and Definitions

Item	Qualifiers
B1	This analyte was found in the method blank, which was possibly contaminated during sample preparation. The batch was accepted since this analyte was either not detected or more than 10 times of the blank value for all the samples in the batch.
J	Analyte was detected. However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Reporting Limit (RL).

Item	Definitions
% wt	Percent Weight
%REC	Percent Recovery
°F	Degrees Fahrenheit
AETL	American Environmental Testing Laboratory, LLC
C	Carbon
CARB	California Air Resources Board
COC	Chain of Custody
Cresols	3-methylphenol/4-methylphenol coelute and cannot be chromatographically separated. Due to this coeluting isomer pair phenomenon, the laboratory uses a single cresol (4-methylphenol) as calibration standard for 3-methylphenol/4-methylphenol.
CRM	Certified Reference Material
DPD	Department of Planning and Development
DRO	Diesel Range Organics
Dup	Duplicate
ELAP	Environmental Laboratory Accreditation Program
EPA	Environmental Protection Agency
GC/FID	Gas Chromatography Flame Ionization Detection
GRO	Gasoline Range Organics
HC	Hydrocarbon
HEM	Hexane Extractable Material
HMU	Hazardous Material Unit
ICP/MS	Inductively Coupled Plasma Mass Spectrometry
LACSD	Los Angeles County Sanitation Districts
LCS	Laboratory Control Sample - A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes.
LCSD	Laboratory Control Sample Duplicate - A replicate of Laboratory Control Sample.
LOQ	Limit of Quantitation
MDL	Method Detection Limit - The minimum measured concentration of a substance that can be reported with 99% confidence. MDL is statistically derived number which is specific for each instrument, each method and each compound.
mg/kg	Miligrams per Kilogram
mg/L	Miligrams per Liter
ml/L/hr	Milliliter per Liter per Hour
MRO	Motor oil Range Organics

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Parsons	AETL Job Number:	BED0009	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/25/2023 13:09

MS	Matrix Spike - A sample prepared, taken through all sample preparation and analytical steps of the procedure and analyzed as an independent test results.
MSD	Matrix Spike Duplicate - A replicate of Matrix Spike Sample.
N	No
ND	Analyte is not detected below Method Detection Limit.
ng/m3	Nanograms per cubic meter
NIOSH	National Institute for Occupational Safety and Health
nL/L	Nanoliters per Liter
NTU	Nephelometric Turbidity Units
Ohm-cm	Ohms per centimeter
ORO	Oil Range Organics
OSHA	Occupational Safety and Health Administration
PCB	Polychlorinated Biphenyl
PSU	Practical Salinity Unit
RL	Reporting Limit - The lowest concentration at which an analyte can be detected in a sample and its concentration can be reported with a specified degree of confidence, accuracy and precision. For usage at AETL, RL is equivalant to LOQ.
RPD	Relative Percent Difference
SIM	Selective Ion Monitoring
SM	Standard Method
SPLP	Synthetic Precipitation Leaching Procedure
STLC	Soluble Threshold Limit Concentration
TCLP	Toxicity Characteristic Leaching Procedure
TPH	Total Petroleum Hydrocarbons
TTLC	Total Threshold Limit Concentrations
ug/kg	Micrograms per Kilogram
ug/L	Micrograms per Liter
ug/m3	Micrograms per cubic meter
WET	Waste Extraction Test
Y	Yes
ZHE	Zero Headspace Extraction

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April 20, 2023

Hailley Coleman
American Environmental Testing Laboratory, Inc.
2834 N. Naomi Street
Burbank, CA 91504

TEL: (818) 845-8200
FAX:

Workorder No.: N055984

RE: BED0009.02

Attention: Hailley Coleman

Enclosed are the results for sample(s) received on April 14, 2023 by ASSET Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562) 219-7435 if I can be of further assistance to your company.

Sincerely,



Ferdinand Paul Lugtu
Laboratory Director

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CLIENT: American Environmental Testing Laborator
Project: BED0009.02
Lab Order: N055984

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

All sample containers were received intact with proper chain of custody documentation.

Information on sample receipt conditions including discrepancies can be found in attached Sample Receipt Checklist Form.

Cooler temperature and sample preservation were verified upon receipt of samples if applicable.

Samples were analyzed within method holding time.

CLIENT: American Environmental Testing Laborator
Project: BED0009.02
Lab Order: N055984
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N055984-001A	BED0009-05	Soil	4/3/2023 12:27:00 PM	4/14/2023	4/20/2023
N055984-002A	BED0009-08	Soil	4/3/2023 9:35:00 AM	4/14/2023	4/20/2023
N055984-003A	BED0009-11	Soil	4/3/2023 10:00:00 AM	4/14/2023	4/20/2023
N055984-004A	BED0009-33	Soil	4/3/2023 2:25:00 PM	4/14/2023	4/20/2023

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BED0009-05
Lab Order:	N055984		
Project:	BED0009.02	**Collection Date:**	4/3/2023 12:27:00 PM
Lab ID:	N055984-001	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC						
EPA 3060A				**EPA 7199**		
RunID: CA01638-IC01_230419A	QC Batch: 99253			PrepDate:	4/18/2023	Analyst: **CR**
Hexavalent Chromium	ND	0.20		mg/Kg	1	4/19/2023 05:09 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BED0009-08
Lab Order:	N055984		
Project:	BED0009.02	**Collection Date:**	4/3/2023 9:35:00 AM
Lab ID:	N055984-002	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC						
EPA 3060A				**EPA 7199**		
RunID: CA01638-IC01_230419A	QC Batch: 99253			PrepDate:	4/18/2023	Analyst: **CR**
Hexavalent Chromium	ND	0.20		mg/Kg	1	4/19/2023 06:52 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BED0009-11
Lab Order:	N055984		
Project:	BED0009.02	**Collection Date:**	4/3/2023 10:00:00 AM
Lab ID:	N055984-003	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC						
EPA 3060A				**EPA 7199**		
RunID: CA01638-IC01_230419A	QC Batch: 99253			PrepDate:	4/18/2023	Analyst: **CR**
Hexavalent Chromium	ND	0.20		mg/Kg	1	4/19/2023 07:15 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BED0009-33
Lab Order:	N055984		
Project:	BED0009.02	**Collection Date:**	4/3/2023 2:25:00 PM
Lab ID:	N055984-004	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC						
EPA 3060A				**EPA 7199**		
RunID: CA01638-IC01_230419A	QC Batch: 99253			PrepDate:	4/18/2023	Analyst: **CR**
Hexavalent Chromium	0.58	0.20		mg/Kg	1	4/19/2023 07:38 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: American Environmental Testing Laboratory, Inc.
Work Order: N055984
Project: BED0009.02

ANALYTICAL QC SUMMARY REPORT

TestCode: CA_7199_S

Sample ID: **LCS-99253**	SampType: **LCS**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/18/2023**	RunNo: **171581**
Client ID: **LCSS**	Batch ID: **99253**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/19/2023**	SeqNo: **5163922**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	3.703	0.20	4.000	0	92.6	80	120				

Sample ID: **MB-99253**	SampType: **MBLK**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/18/2023**	RunNo: **171581**
Client ID: **PBS**	Batch ID: **99253**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/19/2023**	SeqNo: **5163923**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20									

Sample ID: **N055984-001A-REP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/18/2023**	RunNo: **171581**
Client ID: **ZZZZZZ**	Batch ID: **99253**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/19/2023**	SeqNo: **5163925**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20						0	0	20	

Sample ID: **N055984-001A-DUP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/18/2023**	RunNo: **171581**
Client ID: **ZZZZZZ**	Batch ID: **99253**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/19/2023**	SeqNo: **5163926**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20						0	0	20	

Sample ID: **N055984-001A-MS**	SampType: **MS**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/18/2023**	RunNo: **171581**
Client ID: **ZZZZZZ**	Batch ID: **99253**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/19/2023**	SeqNo: **5163928**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	3.766	0.20	4.000	0	94.2	75	125				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits

Calculations are based on raw values

- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: American Environmental Testing Laboratory, Inc.
Work Order: N055984
Project: BED0009.02

ANALYTICAL QC SUMMARY REPORT

TestCode: CA_7199_S

Sample ID: **N055984-001A-MSD**	SampType: **MSD**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/18/2023**	RunNo: **171581**
Client ID: **ZZZZZZ**	Batch ID: **99253**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/19/2023**	SeqNo: **5163929**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	3.817	0.20	4.000	0	95.4	75	125	3.766	1.35	20	

Sample ID: **N055984-002A-REP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/18/2023**	RunNo: **171581**
Client ID: **ZZZZZZ**	Batch ID: **99253**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/19/2023**	SeqNo: **5163934**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20						0	0	20	

Sample ID: **N055984-003A-REP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/18/2023**	RunNo: **171581**
Client ID: **ZZZZZZ**	Batch ID: **99253**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/19/2023**	SeqNo: **5163936**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20						0.08656	0	20	

Sample ID: **N055984-004A-REP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/18/2023**	RunNo: **171581**
Client ID: **ZZZZZZ**	Batch ID: **99253**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/19/2023**	SeqNo: **5163938**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20						0.5758	0	20	

Sample ID: **N056032-006A-REP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/18/2023**	RunNo: **171581**
Client ID: **ZZZZZZ**	Batch ID: **99253**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/19/2023**	SeqNo: **5163940**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20						0.07712	0	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: American Environmental Testing Laboratory, Inc.
Work Order: N055984
Project: BED0009.02

ANALYTICAL QC SUMMARY REPORT

TestCode: CA_7199_S

Sample ID: **N055984-001A-MS-I**	SampType: **MS**	TestCode: **CA_7199_S**	Units: **mg/Kg**		Prep Date: **4/18/2023**			RunNo: **171581**			
Client ID: **ZZZZZZ**	Batch ID: **99253**	TestNo: **EPA 7199**	**EPA 3060A**		Analysis Date: **4/19/2023**			SeqNo: **5163943**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	654.286	10	650.0	0	101	75	125				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

N055984

AMERICAN ENVIRONMENTAL TESTING LABORATORY, LLC
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SUBCONTRACT CHAIN of CUSTODY

Sending Laboratory:

AETL
AETL, LLC. 2840 N. Naomi Street
Burbank, CA 91504
Phone: 818-845-8200
Project Manager: Hailley Coleman
Email: hcoleman@aetlab.com

Subcontracted Laboratory:

ASSET Laboratories
11110 Artesia Blvd.
Cerritos, CA 90703
Phone: (702)307-2659
Fax: (562)219-7435

WORK ORDER: BED0009.02

Work Order: BED0009 PO # SUB-35298

Analysis	Due	Expires	Comments
~~**Sample ID: BED0009-01** *Soil* **Sampled: 04/03/2023 12:17**~~			
7199 (Chromium Hexavalent by Ion Chromatography)	04/10/2023	05/01/2023 12:17	
Containers Supplied:			
~~**Sample ID: BED0009-02** *Soil* **Sampled: 04/03/2023 12:22**~~			
7199 (Chromium Hexavalent by Ion Chromatography)	04/10/2023	05/01/2023 12:22	
Containers Supplied:			
Sample ID: BED0009-05 ***Soil*** ***Sampled: 04/03/2023 12:27*** 5-DAY TAT			
7199 (Chromium Hexavalent by Ion Chromatography)	04/10/2023	05/01/2023 12:27	N055984-001
Containers Supplied:			
Sample ID: BED0009-08 ***Soil*** ***Sampled: 04/03/2023 09:35***			
7199 (Chromium Hexavalent by Ion Chromatography)	04/10/2023	05/01/2023 09:35	-002
Containers Supplied:			

Approved by: HAILLEY COLEMAN — 4/14/23
AETL Project Manager — Date

Released By AETL Sample Control	Date	Received By Courier	Date
Denys Holovchko	04/14/2023		4/19/23 13:58
Released By Courier	Date	Received By Subcontract Laboratory	Date

4/14/23 1800 — AMP 4/15/23 — 1358 — AMP 4/15/23

Temp 6.2°C IR#1

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SUBCONTRACT CHAIN of CUSTODY
(Continued)

Work Order: BED0009 (Continued)

Analysis	Due	Expires	Comments
Sample ID: BED0009-11 ***Soil*** ***Sampled: 04/03/2023 10:00***			
7199 (Chromium Hexavalent by Ion Chromatography)	04/10/2023	05/01/2023 10:00	
Containers Supplied:			N055984-003
Sample ID: BED0009-33 ***Soil*** ***Sampled: 04/03/2023 14:25***			
7199 (Chromium Hexavalent by Ion Chromatography)	04/10/2023	05/01/2023 14:25	
Containers Supplied:			-004

Approved by: _____ _____
AETL Project Manager — Date

Released By AETL Sample Control	Date	Received By Courier	Date
Denys Halevskiy	04/14/2023	[illegible]	4/14/23 1358
Released By Courier	Date	Received By Subcontract Laboratory	Date
[illegible] 4/14/23 1800	1358	[illegible]	

ASSET Laboratories

Please review the checklist below. Any NO signifies non-compliance. Any non-compliance will be noted and must be understood as having an impact on the quality of the data. All tests will be performed as requested regardless of any compliance issues.

If you have any questions or further instruction, please contact our Project Coordinator at (702) 307-2659.

Cooler Received/Opened On:	4/14/2023	Workorder:	N055984
Rep sample Temp (Deg C):	6.2	IR Gun ID:	1
Temp Blank:	☐ Yes ☑ No		
Carrier name:	Walk-In		
Last 4 digits of Tracking No.:	NA	Packing Material Used:	None
Cooling process:	☑ Ice ☐ Ice Pack ☐ Dry Ice ☐ Other ☐ None		

Sample Receipt Checklist

1. Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
2. Custody seals intact, signed, dated on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
3. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
4. Chain of custody present?	Yes ☑	No ☐	
5. Sampler's name present in COC?	Yes ☐	No ☑	
6. Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
7. Chain of custody agrees with sample labels?	Yes ☑	No ☐	
8. Samples in proper container/bottle?	Yes ☑	No ☐	
9. Sample containers intact?	Yes ☑	No ☐	
10. Sufficient sample volume for indicated test?	Yes ☑	No ☐	
11. All samples received within holding time?	Yes ☑	No ☐	
12. Temperature of rep sample or Temp Blank within acceptable limit?	Yes ☐	No ☑	NA ☐
13. Water - VOA vials have zero headspace?	Yes ☐	No ☐	NA ☑
14. Water - pH acceptable upon receipt? Example: pH > 12 for (CN,S); pH<2 for Metals	Yes ☐	No ☐	NA ☑
15. Did the bottle labels indicate correct preservatives used?	Yes ☐	No ☐	NA ☑
16. Were there Non-Conformance issues at login?	Yes ☑	No ☐	NA ☐
Was Client notified?	Yes ☑	No ☐	NA ☐

Comments: See correspondence.

Checklist Completed B FOR TM 4/18/2023

Reviewed By:



Subject: N055984, BED0009
From: Maribel Ramos <maribel@assetlaboratories.com>
Date: 4/18/2023, 11:29 AM
To: Hailley Coleman <hcoleman@aetlab.com>
CC: "tmalit@assetlaboratories.com" <tmalit@assetlaboratories.com>

Hailley,

Temperature was received above criteria. We will continue with analyses unless otherwise instructed.

Thank you,

Maribel Ramos

Attachments:

N055984_COC.pdf 108 KB

ASSET Laboratories

WORK ORDER Summary

17-Apr-23

WorkOrder: N055984

Client ID: AETL01

Project: BED0009.02 **QC Level:** RTNE **Date Received:** 4/14/2023 1:58 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N055984-001A	BED0009-05	4/3/2023 12:27:00 PM	4/21/2023	Soil	EPA 3060A	Prep for Hexavalent Chromium	☐	☐	☐	WS-CA
			4/21/2023		EPA 7199	Hexavalent Chromium by IC	☐	☐	☐	WS-CA
N055984-002A	BED0009-08	4/3/2023 9:35:00 AM	4/21/2023		EPA 3060A	Prep for Hexavalent Chromium	☐	☐	☐	WS-CA
			4/21/2023		EPA 7199	Hexavalent Chromium by IC	☐	☐	☐	WS-CA
N055984-003A	BED0009-11	4/3/2023 10:00:00 AM	4/21/2023		EPA 3060A	Prep for Hexavalent Chromium	☐	☐	☐	WS-CA
			4/21/2023		EPA 7199	Hexavalent Chromium by IC	☐	☐	☐	WS-CA
N055984-004A	BED0009-33	4/3/2023 2:25:00 PM	4/21/2023		EPA 3060A	Prep for Hexavalent Chromium	☐	☐	☐	WS-CA
			4/21/2023		EPA 7199	Hexavalent Chromium by IC	☐	☐	☐	WS-CA
N055984-005A	FOLDER	4/21/2023	4/21/2023		Folder	Folder	☐	☐	☐	LAB
			4/21/2023		Folder	Folder	☐	☐	☐	LAB

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April 11, 2023

AETL Job No: BED0011
Received Date: 04/04/2023
Project Number: [none]

Parsons
100 West Walnut Street
Pasadena, CA 91124
Telephone: (626) 440-6200

Attention: Justin King

Project Name: Canoga Park High School
Site: 6850 CA-27
Canoga Park, CA 91303

Enclosed please find the results of analyses for samples which were analyzed as specified on the attached chain of custody. If you have any questions concerning this report, please do not hesitate to call.

Checked By: Lily Natanian
Project Manager

Approved By: Hailley Coleman
Project Manager

Table of Contents

Client Project Name: General Soil Testing Project Number: [none]
Work Order Number: BED0011

1	Cover Letter	1
2	Sample Condition on Receipt	3
3	Chain of Custody	4
4	Cooler Receipt Forms	7
5	Case Narrative	8
6	Samples Received	9
7	Positive Hits Summary	17
8	Analytical Results	23
9	Quality Control Results	71
10	Qualifiers and Definitions	98
11	Sub Contracted Analysis	100

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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56	

Sample Condition on Receipt

Cooler ID: Default Cooler **Temperature: 5.8 °C**

Are the COCs Correct	Y		
Labels Legible	Y	Containers In Good Condition	Y
COC/Labels Agree	Y	Samples Preserved Properly	Y
Sufficient Sample Volume	Y	Sufficient Holding Time for all Tests	Y
Sample Labels intact	Y	Received on Ice	Y

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

American Environmental Testing Laboratory Inc.

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Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

CHAIN OF CUSTODY RECORD

108491

COMPANY: Parsons
PROJECT MANAGER: Justin Icing
COMPANY ADDRESS: 100 W. Walnut St. Pasadena, CA 91124
PHONE: (310) 809-5793
FAX:
PROJECT NAME: Canoga Park Highschool
PROJECT #:
SITE NAME AND ADDRESS: 6850 CA-27, Canoga Park, CA 91303
PO #:

AETL JOB No. BED0011

	SAMPLE ID	LAB ID	DATE (E.D.)	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	OCPs (8081A)	TEST INSTRUCTIONS & COMMENTS
1	SB-1-D0.5	BED0011-01	1049	4/4/23	SO.1	1x9oz	NONE	X	X	X	
2	SB-1-D2.0	-02	4/4/2023	1053							Hold
3	SB-1-D3.0	-03		1057							Hold
4	SB-5-D0.5	-04		0818				X	X	X	
5	SB-5-D2.0	-05		0823							Hold
6	SB-5-D3.0	-06		0830							Hold
7	SB-8-D0.5	-07		0727				X	X	X	
8	SB-8-D2.0	-08		0730							Hold
9	SB-8-D3.0	-09		0735							Hold
10	SB-12-D0.5	-10		0750				X	X	X	
11	SB-12-D2.0	-11		0755							Hold
12	SB-12-D3.0	-12		0802			ED				Hold
13	SB-50-D0.5	-13		1452				X	X	X	
14	SB-50-D2.0	-14		1455							Hold
15	SB-50-D3.0	-15		1458							Hold

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y/ N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

TURN AROUND TIME

☑ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY ☑ PDF ☐ GEOTRACKER (GLOBAL ID) _____ ☐ OTHER (PLEASE SPECIFY) _____

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: E. Stein	Signature:	Signature:
Printed Name: Edward Dabsys	Printed Name:	Printed Name:
Date: 4/4/2023 Time: 1600	Date: Time:	Date: Time:
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: 3.**
Signature:	Signature:	Signature:
Printed Name:	Printed Name:	Printed Name: Ros Sevnoay
Date: Time:	Date: Time:	Date: 4/4/2023 Time: 1600

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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CHAIN OF CUSTODY RECORD

108490

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut St. Pasadena, CA 91124
PHONE: (310) 809-5793
FAX:
PROJECT NAME: Canoga Park High School
PROJECT #:
SITE NAME AND ADDRESS: 6850 CA-27, Canoga Park, CA 91303
PO#:

AETL JOB No. BED0011

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1	SB-3-D0.5	BE00011-16	4/4/2023	0910	Soil	1x 9oz + 4 Vials	—
2	SB-3-D0.5 DUP	-17		0915			
3	SB-3-D2.0	-18		0935			
4	SB-3-D3.0	-19		0945			
5	SB-2-D0.5	-20		1005			
6	SB-2-D2.0	-21		1020			
7	SB-2-D3.0	-22		1030			
8	SB-37-D0.5	-23		1120			
9	SB-37-D2.0	-24		1130			
10	SB-37-D3.0	-25		1135			
11	SB-36-D0.5	-26		1152			
12	SB-36-D2.0	-27		1202			
13	SB-36-D3.0	-28		1212			
14							
15							

ANALYSIS REQUESTED

Lead (6010B)	Arsenic (6020)	OCPs (8081A)	VOCs (8260B)	TPH (8270C)	TEST INSTRUCTIONS & COMMENTS
X	X	X	X	X	
X	X	X	X	X	Duplicate
					Hold
					Hold
X	X	X	X	X	
					Hold
					Hold
X	X	X	X	X	
					Hold
					Hold
X	X	X	X	X	
					Hold
					Hold

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y/ N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

TURN AROUND TIME

☑ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY
☑ PDF
☐ GEOTRACKER (GLOBAL ID) _____
☐ OTHER (PLEASE SPECIFY) _____

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: E. Dabzs	Signature:	Signature:
Printed Name: Edward Dabzs	Printed Name:	Printed Name:
Date: 4/4/2023 Time: 1600	Date: Time:	Date: Time:
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: 3.**
Signature:	Signature:	Signature: Joe Sevreau
Printed Name:	Printed Name:	Printed Name: Joe Sevreau
Date: Time:	Date: Time:	Date: 4/4/2023 Time: 1600

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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CHAIN OF CUSTODY RECORD

108493

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut Street Pasadena, CA 91124
PHONE / FAX: (310) 809-5793
PROJECT NAME: Canoga Park High School
PROJECT #:
SITE NAME AND ADDRESS: 6850 CA-27, Canoga Park, CA 91303
PO #: 303

AETL JOB No. BED0011

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1	SB-4-D0.5	BED0011-29	4/4/2023	0849	Soil	1x9oz + 2x2oz	none
2	SB-4-D2.0	-30		0855			
3	SB-22-D0.5	-31		1258			
4	SB-22-D2.0	-32		1304		1x9oz	
5	SB-22-D3.0	-33		1307		1x9oz	
6	SB-53-D0.5	-34		1352		1x9oz + 2x2oz	
7	SB-53-D0.5-DUP	-35		1357		1x9oz + 2x2oz	
8	SB-53-D2.0	-36		1359		1x9oz	
9	SB-53-D3.0	-37		1401			
10	SB-52-D0.5	-38		1417			
11	SB-52-D2.0	-39		1420			
12	SB-52-D3.0	-40		1424			
13	SB-51-D0.5	-41		1432			
14	SB-51-D2.0	-42		1434			
15	SB-51-D3.0	-43		1437			

ANALYSIS REQUESTED

	Lead (6010B)	Arsenic (6020)	OCPs (8081A)	PCBs (8270C)	Asbestos (PLM)	PAHs (8270C)	Cr VI (7199)	Cd+Ni (6010B)	Mercury (7470A)	TEST INSTRUCTIONS & COMMENTS
1	X	X	X	X	X	X	X	X	X	
2										Hold
3	X	X	X	X	X	X	X	X	X	
4										Hold
5										Hold
6	X	X	X	X	X	X	X	X	X	
7	X	X	X	X	X	X	X	X	X	Duplicate
8										Hold
9										Hold
10	X	X	X	X	X	X	X	X	X	
11										Hold
12										Hold
13	X	X	X	X	X	X	X	X	X	
14										Hold
15										Hold

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y / N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

TURN AROUND TIME

☑ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY ☑ PDF ☐ GEOTRACKER (GLOBAL ID) _____ ☐ OTHER (PLEASE SPECIFY) _____

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:	Signature:	Signature:
Printed Name: Edward Dabzy	Printed Name:	Printed Name:
Date: 4/4/2023 Time: 1600	Date: Time:	Date: Time:
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: 3.**
Signature:	Signature:	Signature:
Printed Name:	Printed Name:	Printed Name:
Date: Time:	Date: Time:	Date: 4/4/2023 Time: 1600

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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COOLER RECEIPT FORM

Client Name: Parsons

Project Name: Canoga Park High School Project No.:

AETL Job Number: BED0011

Date Received: 04-04-23 Received by: Joe Sevrean

Carrier: ☑ AETL Courier ☐ Client ☐ GSL ☐ FedEx ☐ UPS
☐Others:

Samples were received in: ☑ Cooler (__2_____) ☐ Other (Specify):

Sample Container Temperature: __5.8__ °C IR Gun S/N: 51941911MV

Type of sample containers: ☐ VOA, ☐ Glass bottles, ☑Wide mouth jars, ☐HDPE bottles, ☐ Metal sleeves, ☐ Acetate sleeves, ☐ 5035 Kit: ☐ AETL or ☐ Client, ☐ Tedlar Bags, Summa Canister: ☐ 6L, ☐ 3L, ☐ 1L, Others (Specify): _____

How are samples preserved: ☐ None, ☑ Ice, ☐ Blue Ice, ☐ Dry Ice
☑ None, ☐ HNO_3, ☐ NaOH, ☐ ZnOAc, ☐ HCl, ☐ $Na_2S_2O_3$, ☐ MeOH, ☐ $NaHSO_4$
☐ Other (Specify):

	Yes	No	N/A	Note or Comment
1. Are the COCs Correct?	✔			
2. Are Sample labels legible & indelible ink?	✔			
3. Do samples match the COC?	✔			
4. Are the required analyses clear?	✔			
5. Is there enough samples for required analysis?	✔			
6. Does cooler or samples have custody seal(s)?			✔	
7. Are sample containers in good condition?	✔			
8. Are samples preserved?	✔			
9. Are samples preserved properly for the intended analysis?	✔			
10. Are the VOAs free of headspace? See footnote.			✔	
11. Are the jars free of headspace?			✔	

* = see note below. N/A = Not Applicable

PLEASE NOTE ALL SAMPLES WILL BE DISPOSED OF 30 DAYS AFTER RECEIVING DATE. IF AETL IS INFORMED OTHERWISE, THERE WILL BE A STORAGE CHARGE PER SAMPLE PER MONTH FOR ANY SAMPLE HELD BEYOND 30 DAYS.

◯ Example maximum headspace bubble size; acceptance criteria not to exceed 5-6 mm in diameter.

For headspace bubbles exceeding 6 mm in diameter, sample receiving will tag the VOA and notify the Project Manager. The Project Manager will contact client for Analyze or Resample instructions.

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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56

Case Narrative

The following "Sample Received" Section summarizes the samples received and associated analyses requested as specified on the enclosed chain of custody.

Results as reported by the laboratory apply only to 1) the items tested, 2) as the samples are received, and 3) the accuracy of information provided. Information supplied by the customer that may affect validity of results and may be contained in this report include Project Name/Number, Site Location, Sample Locations, Sampling Dates/Times, Sample ID, Sample Preservation, Sample Matrix, Sample Properties, Field Blanks, Field Duplicates, Field Spikes, and Site Historical Data.

Accreditation applies only to the test methods listed on each scope of accreditation held by the laboratory; certifications held by the laboratory may not apply to results supplied in this report.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

Qualifiers are noted in the report.

The samples were subcontracted to Orange Coast Analytical, Inc. for EPA 6020. Please see attached report for results.

The samples were subcontracted to Asset Laboratories for EPA 7199. Please see attached report for results.

The samples were subcontracted to AIH Laboratories for EPA 600R-93/116. Please see attached report for results.

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56	

Samples Received

AETL received the following samples on 04/04/2023 with the following specifications

Client ID SB-1-D0.5 — **Sample Date** 04/4/2023 10:49

Lab ID BED0011-01 — **Matrix** Soil — **Quantity of Containers** 2

Method	Analyte	Units	TAT
EPA 6010B	Lead, total by ICP	mg/kg	5
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5
EPA 8081A	Organochlorine Pesticides by GC/ECD	ug/kg	5

Client ID SB-5-D0.5 — **Sample Date** 04/4/2023 8:18

Lab ID BED0011-04 — **Matrix** Soil — **Quantity of Containers** 2

Method	Analyte	Units	TAT
EPA 6010B	Lead, total by ICP	mg/kg	5
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5
EPA 8081A	Organochlorine Pesticides by GC/ECD	ug/kg	5

Client ID SB-8-D0.5 — **Sample Date** 04/4/2023 7:27

Lab ID BED0011-07 — **Matrix** Soil — **Quantity of Containers** 2

Method	Analyte	Units	TAT
EPA 6010B	Lead, total by ICP	mg/kg	5
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5
EPA 8081A	Organochlorine Pesticides by GC/ECD	ug/kg	5

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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56	

Samples Received

(Continued)

AETL received the following samples on 04/04/2023 with the following specifications

Client ID: SB-12-D0.5 **Sample Date:** 04/4/2023 7:50

Lab ID: BED0011-10 **Matrix:** Soil **Quantity of Containers:** 2

Method	Analyte	Units	TAT
EPA 6010B	Lead, total by ICP	mg/kg	5
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5
EPA 8081A	Organochlorine Pesticides by GC/ECD	ug/kg	5

Client ID: SB-50-D0.5 **Sample Date:** 04/4/2023 14:52

Lab ID: BED0011-13 **Matrix:** Soil **Quantity of Containers:** 2

Method	Analyte	Units	TAT
EPA 6010B	Lead, total by ICP	mg/kg	5
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5
EPA 8081A	Organochlorine Pesticides by GC/ECD	ug/kg	5

Client ID: SB-3-D0.5 **Sample Date:** 04/4/2023 9:10

Lab ID: BED0011-16 **Matrix:** Soil **Quantity of Containers:** 6

Method	Analyte	Units	TAT
EPA 6010B	Lead, total by ICP	mg/kg	5
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5
EPA 8015B TPH DRO/ORO	TPH as Diesel and Heavy Hydrocarbons Using GC/FID	mg/kg	5
EPA 8015B TPH GRO	TPH as Gasoline and Light Hydrocarbons	mg/kg	5
EPA 8081A	Organochlorine Pesticides by GC/ECD	ug/kg	5
EPA 8260B	Volatile Organic Compounds by GC/MS (SW846)	ug/kg	5

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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56	

Samples Received

(Continued)

AETL received the following samples on 04/04/2023 with the following specifications

Client ID: SB-3-D0.5-DUP
Sample Date: 04/4/2023 9:15
Lab ID: BED0011-17
Matrix: Soil
Quantity of Containers: 6

Method	Analyte	Units	TAT
EPA 6010B	Lead, total by ICP	mg/kg	5
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5
EPA 8015B TPH DRO/ORO	TPH as Diesel and Heavy Hydrocarbons Using GC/FID	mg/kg	5
EPA 8015B TPH GRO	TPH as Gasoline and Light Hydrocarbons	mg/kg	5
EPA 8081A	Organochlorine Pesticides by GC/ECD	ug/kg	5
EPA 8260B	Volatile Organic Compounds by GC/MS (SW846)	ug/kg	5

Client ID: SB-2-D0.5
Sample Date: 04/4/2023 10:05
Lab ID: BED0011-20
Matrix: Soil
Quantity of Containers: 6

Method	Analyte	Units	TAT
EPA 6010B	Lead, total by ICP	mg/kg	5
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5
EPA 8015B TPH DRO/ORO	TPH as Diesel and Heavy Hydrocarbons Using GC/FID	mg/kg	5
EPA 8015B TPH GRO	TPH as Gasoline and Light Hydrocarbons	mg/kg	5
EPA 8081A	Organochlorine Pesticides by GC/ECD	ug/kg	5
EPA 8260B	Volatile Organic Compounds by GC/MS (SW846)	ug/kg	5

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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56	

Samples Received

(Continued)

AETL received the following samples on 04/04/2023 with the following specifications

Client ID SB-37-D0.5 — **Sample Date** 04/4/2023 11:20

Lab ID BED0011-23 — **Matrix** Soil — **Quantity of Containers** 6

Method	Analyte	Units	TAT
EPA 6010B	Lead, total by ICP	mg/kg	5
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5
EPA 8015B TPH DRO/ORO	TPH as Diesel and Heavy Hydrocarbons Using GC/FID	mg/kg	5
EPA 8015B TPH GRO	TPH as Gasoline and Light Hydrocarbons	mg/kg	5
EPA 8081A	Organochlorine Pesticides by GC/ECD	ug/kg	5
EPA 8260B	Volatile Organic Compounds by GC/MS (SW846)	ug/kg	5

Client ID SB-36-D0.5 — **Sample Date** 04/4/2023 11:52

Lab ID BED0011-26 — **Matrix** Soil — **Quantity of Containers** 6

Method	Analyte	Units	TAT
EPA 6010B	Lead, total by ICP	mg/kg	5
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5
EPA 8015B TPH DRO/ORO	TPH as Diesel and Heavy Hydrocarbons Using GC/FID	mg/kg	5
EPA 8015B TPH GRO	TPH as Gasoline and Light Hydrocarbons	mg/kg	5
EPA 8081A	Organochlorine Pesticides by GC/ECD	ug/kg	5
EPA 8260B	Volatile Organic Compounds by GC/MS (SW846)	ug/kg	5

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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56	

Samples Received

(Continued)

AETL received the following samples on 04/04/2023 with the following specifications

Client ID: SB-4-D0.5 **Sample Date:** 04/4/2023 8:49

Lab ID: BED0011-29 **Matrix:** Soil **Quantity of Containers:** 4

Method	Analyte	Units	TAT
EPA 600R-93/116	Asbestos by Polarized Light Microscopy Analysis	Percent	5
EPA 6010B	Lead, total by ICP	mg/kg	5
EPA 6010B	Nickel, total by ICP	mg/kg	5
EPA 6010B	Cadmium, total by ICP	mg/kg	5
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5
EPA 7199	Chromium Hexavalent by Ion Chromatography	mg/kg	5
EPA 7471A	Mercury Cold-Vapor Technique	mg/kg	5
EPA 8081A	Organochlorine Pesticides by GC/ECD	ug/kg	5
EPA 8082	Polychlorinated Biphenyls (PCBs)	ug/kg	5
EPA 8270C-SIM	PAH Compounds by GC/MS SIM (Modified 8270C)	mg/kg	5

Client ID: SB-22-D0.5 **Sample Date:** 04/4/2023 12:58

Lab ID: BED0011-31 **Matrix:** Soil **Quantity of Containers:** 4

Method	Analyte	Units	TAT
EPA 600R-93/116	Asbestos by Polarized Light Microscopy Analysis	Percent	5
EPA 6010B	Cadmium, total by ICP	mg/kg	5
EPA 6010B	Lead, total by ICP	mg/kg	5
EPA 6010B	Nickel, total by ICP	mg/kg	5
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5
EPA 7199	Chromium Hexavalent by Ion Chromatography	mg/kg	5
EPA 7471A	Mercury Cold-Vapor Technique	mg/kg	5
EPA 8081A	Organochlorine Pesticides by GC/ECD	ug/kg	5
EPA 8082	Polychlorinated Biphenyls (PCBs)	ug/kg	5
EPA 8270C-SIM	PAH Compounds by GC/MS SIM (Modified 8270C)	mg/kg	5

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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56	

Samples Received

(Continued)

AETL received the following samples on 04/04/2023 with the following specifications

Client ID: SB-53-D0.5 | **Sample Date:** 04/4/2023 13:52

Lab ID: BED0011-34 | **Matrix:** Soil | **Quantity of Containers:** 4

Method	Analyte	Units	TAT
EPA 600R-93/116	Asbestos by Polarized Light Microscopy Analysis	Percent	5
EPA 6010B	Cadmium, total by ICP	mg/kg	5
EPA 6010B	Lead, total by ICP	mg/kg	5
EPA 6010B	Nickel, total by ICP	mg/kg	5
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5
EPA 7199	Chromium Hexavalent by Ion Chromatography	mg/kg	5
EPA 7471A	Mercury Cold-Vapor Technique	mg/kg	5
EPA 8081A	Organochlorine Pesticides by GC/ECD	ug/kg	5
EPA 8082	Polychlorinated Biphenyls (PCBs)	ug/kg	5
EPA 8270C-SIM	PAH Compounds by GC/MS SIM (Modified 8270C)	mg/kg	5

Client ID: SB-53-D0.5-DUP | **Sample Date:** 04/4/2023 13:57

Lab ID: BED0011-35 | **Matrix:** Soil | **Quantity of Containers:** 4

Method	Analyte	Units	TAT
EPA 600R-93/116	Asbestos by Polarized Light Microscopy Analysis	Percent	5
EPA 6010B	Nickel, total by ICP	mg/kg	5
EPA 6010B	Lead, total by ICP	mg/kg	5
EPA 6010B	Cadmium, total by ICP	mg/kg	5
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5
EPA 7199	Chromium Hexavalent by Ion Chromatography	mg/kg	5
EPA 7471A	Mercury Cold-Vapor Technique	mg/kg	5
EPA 8081A	Organochlorine Pesticides by GC/ECD	ug/kg	5
EPA 8082	Polychlorinated Biphenyls (PCBs)	ug/kg	5

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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56

Samples Received

(Continued)

AETL received the following samples on 04/04/2023 with the following specifications

EPA 8270C-SIM	PAH Compounds by GC/MS SIM (Modified 8270C)	mg/kg	5

Client ID: SB-52-D0.5 **Sample Date:** 04/4/2023 14:17

Lab ID: BED0011-38 **Matrix:** Soil **Quantity of Containers:** 4

Method	Analyte	Units	TAT
EPA 600R-93/116	Asbestos by Polarized Light Microscopy Analysis	Percent	5
EPA 6010B	Cadmium, total by ICP	mg/kg	5
EPA 6010B	Lead, total by ICP	mg/kg	5
EPA 6010B	Nickel, total by ICP	mg/kg	5
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5
EPA 7199	Chromium Hexavalent by Ion Chromatography	mg/kg	5
EPA 7471A	Mercury Cold-Vapor Technique	mg/kg	5
EPA 8081A	Organochlorine Pesticides by GC/ECD	ug/kg	5
EPA 8082	Polychlorinated Biphenyls (PCBs)	ug/kg	5
EPA 8270C-SIM	PAH Compounds by GC/MS SIM (Modified 8270C)	mg/kg	5

Client ID: SB-51-D0.5 **Sample Date:** 04/4/2023 14:32

Lab ID: BED0011-41 **Matrix:** Soil **Quantity of Containers:** 4

Method	Analyte	Units	TAT
EPA 600R-93/116	Asbestos by Polarized Light Microscopy Analysis	Percent	5
EPA 6010B	Nickel, total by ICP	mg/kg	5
EPA 6010B	Lead, total by ICP	mg/kg	5
EPA 6010B	Cadmium, total by ICP	mg/kg	5
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5
EPA 7199	Chromium Hexavalent by Ion Chromatography	mg/kg	5
EPA 7471A	Mercury Cold-Vapor Technique	mg/kg	5

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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56

Samples Received

(Continued)

AETL received the following samples on 04/04/2023 with the following specifications

EPA 8081A	**Organochlorine Pesticides by GC/ECD**	**ug/kg**	**5**
EPA 8082	**Polychlorinated Biphenyls (PCBs)**	**ug/kg**	**5**
EPA 8270C-SIM	**PAH Compounds by GC/MS SIM (Modified 8270C)**	**mg/kg**	**5**

Total Number of Samples received: 16

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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Telephone (888) 288-AETL • (818) 845-8200 • www.aetlab.com
A KYZER LABS COMPANY

Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56

Positive Hits Summary

Lab ID	Client ID				Sampled
BED0011-01	SB-1-D0.5				04/04/2023 10:49
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	149		mg/kg	04/07/2023 14:33
EPA 8081A	alpha-Chlordane	8.33		ug/kg	04/10/2023 20:38
EPA 8081A	gamma-Chlordane	6.99		ug/kg	04/10/2023 20:38
EPA 8081A	Chlordane (Total)	15.3		ug/kg	04/10/2023 20:38
EPA 8081A	4,4'-DDD (DDD)	0.807	J	ug/kg	04/10/2023 20:38
EPA 8081A	4,4'-DDE (DDE)	1.83		ug/kg	04/10/2023 20:38
EPA 8081A	4,4'-DDT (DDT)	7.07		ug/kg	04/10/2023 20:38
EPA 8081A	Dieldrin	0.385	J	ug/kg	04/10/2023 20:38

Lab ID	Client ID				Sampled
BED0011-04	SB-5-D0.5				04/04/2023 08:18
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	13.2		mg/kg	04/07/2023 14:44
EPA 8081A	alpha-Chlordane	1.15		ug/kg	04/10/2023 20:55
EPA 8081A	gamma-Chlordane	0.727	J	ug/kg	04/10/2023 20:55
EPA 8081A	Chlordane (Total)	1.88	J	ug/kg	04/10/2023 20:55
EPA 8081A	4,4'-DDD (DDD)	0.148	J	ug/kg	04/10/2023 20:55
EPA 8081A	4,4'-DDE (DDE)	2.01		ug/kg	04/10/2023 20:55
EPA 8081A	4,4'-DDT (DDT)	1.41		ug/kg	04/10/2023 20:55

Lab ID	Client ID				Sampled
BED0011-07	SB-8-D0.5				04/04/2023 07:27
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	21.1		mg/kg	04/07/2023 14:47
EPA 8081A	4,4'-DDE (DDE)	0.246	J	ug/kg	04/10/2023 21:12
EPA 8081A	4,4'-DDT (DDT)	0.375	J	ug/kg	04/10/2023 21:12

Lab ID	Client ID				Sampled
BED0011-10	SB-12-D0.5				04/04/2023 07:50
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	7.97		mg/kg	04/07/2023 14:56

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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56	

Positive Hits Summary
(Continued)

Lab ID	Client ID				Sampled
BED0011-13	SB-50-D0.5				04/04/2023 14:52
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	29.1		mg/kg	04/07/2023 14:58
EPA 8081A	alpha-Chlordane	0.459	J	ug/kg	04/10/2023 21:46
EPA 8081A	gamma-Chlordane	0.254	J	ug/kg	04/10/2023 21:46
EPA 8081A	4,4'-DDD (DDD)	2.55		ug/kg	04/10/2023 21:46
EPA 8081A	4,4'-DDE (DDE)	15.4		ug/kg	04/10/2023 21:46
EPA 8081A	4,4'-DDT (DDT)	13.4		ug/kg	04/10/2023 21:46
EPA 8081A	Dieldrin	0.763	J	ug/kg	04/10/2023 21:46
EPA 8081A	Endrin	0.730	J	ug/kg	04/10/2023 21:46

Lab ID	Client ID				Sampled
BED0011-16	SB-3-D0.5				04/04/2023 09:10
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	171		mg/kg	04/07/2023 15:01
EPA 8260B	Acetone	151		ug/kg	04/06/2023 16:39
EPA 8260B	Toluene (Methyl benzene)	2.73		ug/kg	04/06/2023 16:39
EPA 8081A	alpha-Chlordane	19.3		ug/kg	04/10/2023 22:03
EPA 8081A	gamma-Chlordane	18.9		ug/kg	04/10/2023 22:03
EPA 8081A	Chlordane (Total)	38.3		ug/kg	04/10/2023 22:03
EPA 8081A	4,4'-DDD (DDD)	2.00		ug/kg	04/10/2023 22:03
EPA 8081A	4,4'-DDE (DDE)	36.3		ug/kg	04/10/2023 22:03
EPA 8081A	4,4'-DDT (DDT)	28.4		ug/kg	04/10/2023 22:03
EPA 8081A	Dieldrin	7.63		ug/kg	04/10/2023 22:03
EPA 8081A	Endrin	0.481	J	ug/kg	04/10/2023 22:03
EPA 8081A	Heptachlor epoxide	0.789	J	ug/kg	04/10/2023 22:03
EPA 8081A	Toxaphene	68.0		ug/kg	04/10/2023 22:03

Lab ID	Client ID				Sampled
BED0011-17	SB-3-D0.5-DUP				04/04/2023 09:15
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	174		mg/kg	04/07/2023 15:04
EPA 8260B	Acetone	132		ug/kg	04/06/2023 17:11
EPA 8260B	Benzene	0.692	J	ug/kg	04/06/2023 17:11
EPA 8260B	Toluene (Methyl benzene)	2.50		ug/kg	04/06/2023 17:11
EPA 8015B TPH GRO	TPH as Gasoline and Light HC. (C4-C12)	0.228		mg/kg	04/06/2023 11:20

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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56	

Positive Hits Summary
(Continued)

Lab ID	Client ID				Sampled
BED0011-17	SB-3-D0.5-DUP				04/04/2023 09:15
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 8081A	alpha-Chlordane	24.9	DIL	ug/kg	04/10/2023 22:20
EPA 8081A	gamma-Chlordane	24.5	DIL	ug/kg	04/10/2023 22:20
EPA 8081A	Chlordane (Total)	49.3	DIL	ug/kg	04/10/2023 22:20
EPA 8081A	4,4'-DDD (DDD)	2.55	DIL	ug/kg	04/10/2023 22:20
EPA 8081A	4,4'-DDE (DDE)	39.5	DIL	ug/kg	04/10/2023 22:20
EPA 8081A	4,4'-DDT (DDT)	38.4	DIL	ug/kg	04/10/2023 22:20
EPA 8081A	Dieldrin	9.08	DIL	ug/kg	04/10/2023 22:20
EPA 8081A	Endrin	1.38	DIL, J	ug/kg	04/10/2023 22:20
EPA 8081A	Heptachlor epoxide	1.05	DIL, J	ug/kg	04/10/2023 22:20
EPA 8081A	Toxaphene	366	DIL	ug/kg	04/10/2023 22:20

Lab ID	Client ID				Sampled
BED0011-20	SB-2-D0.5				04/04/2023 10:05
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	45.3		mg/kg	04/07/2023 15:07
EPA 8260B	Benzene	0.587	J	ug/kg	04/06/2023 17:43
EPA 8260B	Toluene (Methyl benzene)	2.04		ug/kg	04/06/2023 17:43
EPA 8081A	alpha-Chlordane	0.313	J	ug/kg	04/10/2023 22:37
EPA 8081A	gamma-Chlordane	0.173	J	ug/kg	04/10/2023 22:37
EPA 8081A	4,4'-DDD (DDD)	0.296	J	ug/kg	04/10/2023 22:37
EPA 8081A	4,4'-DDE (DDE)	3.36		ug/kg	04/10/2023 22:37
EPA 8081A	4,4'-DDT (DDT)	2.52		ug/kg	04/10/2023 22:37
EPA 8081A	Dieldrin	0.134	J	ug/kg	04/10/2023 22:37

Lab ID	Client ID				Sampled
BED0011-23	SB-37-D0.5				04/04/2023 11:20
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	8.25		mg/kg	04/07/2023 15:10
EPA 8260B	Benzene	0.510	J	ug/kg	04/06/2023 18:15
EPA 8260B	Toluene (Methyl benzene)	2.26		ug/kg	04/06/2023 18:15
EPA 8015B TPH DRO/ORO	TPH as Diesel (C13-C22)	27.5		mg/kg	04/06/2023 23:58
EPA 8015B TPH DRO/ORO	TPH Total as Diesel and Heavy HC (C13-C40)	27.5		mg/kg	04/06/2023 23:58
EPA 8081A	alpha-Chlordane	3.84		ug/kg	04/10/2023 22:54
EPA 8081A	gamma-Chlordane	2.87		ug/kg	04/10/2023 22:54

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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56	

Positive Hits Summary
(Continued)

Lab ID	Client ID				Sampled
BED0011-23	SB-37-D0.5				04/04/2023 11:20
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 8081A	Chlordane (Total)	6.71		ug/kg	04/10/2023 22:54
EPA 8081A	4,4'-DDD (DDD)	0.283	J	ug/kg	04/10/2023 22:54
EPA 8081A	4,4'-DDE (DDE)	1.17		ug/kg	04/10/2023 22:54
EPA 8081A	4,4'-DDT (DDT)	1.91		ug/kg	04/10/2023 22:54
EPA 8081A	Dieldrin	0.113	J	ug/kg	04/10/2023 22:54

Lab ID	Client ID				Sampled
BED0011-26	SB-36-D0.5				04/04/2023 11:52
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	5.37		mg/kg	04/07/2023 15:12
EPA 8260B	Benzene	0.933	J	ug/kg	04/06/2023 18:47
EPA 8260B	Toluene (Methyl benzene)	2.20		ug/kg	04/06/2023 18:47
EPA 8015B TPH GRO	TPH as Gasoline and Light HC. (C4-C12)	0.210		mg/kg	04/06/2023 13:00
EPA 8081A	alpha-Chlordane	3.75		ug/kg	04/10/2023 23:11
EPA 8081A	gamma-Chlordane	3.49		ug/kg	04/10/2023 23:11
EPA 8081A	Chlordane (Total)	7.24		ug/kg	04/10/2023 23:11
EPA 8081A	4,4'-DDD (DDD)	0.354	J	ug/kg	04/10/2023 23:11
EPA 8081A	4,4'-DDE (DDE)	0.788	J	ug/kg	04/10/2023 23:11
EPA 8081A	4,4'-DDT (DDT)	2.58		ug/kg	04/10/2023 23:11

Lab ID	Client ID				Sampled
BED0011-29	SB-4-D0.5				04/04/2023 08:49
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Cadmium	1.34	J	mg/kg	04/07/2023 15:15
EPA 6010B	Lead	12.5		mg/kg	04/07/2023 15:15
EPA 6010B	Nickel	23.7		mg/kg	04/07/2023 15:15
EPA 7471A	Mercury	0.0184	J	mg/kg	04/11/2023 10:38
EPA 8081A	4,4'-DDE (DDE)	0.647	J	ug/kg	04/10/2023 23:45

Lab ID	Client ID				Sampled
BED0011-31	SB-22-D0.5				04/04/2023 12:58
Method	Analyte	Result	Qualifier	Unit	Analyzed

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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56	

Positive Hits Summary
(Continued)

Lab ID	Client ID				Sampled
BED0011-31	SB-22-D0.5				04/04/2023 12:58
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	15.3		mg/kg	04/07/2023 15:18
EPA 6010B	Nickel	21.2		mg/kg	04/07/2023 15:18
EPA 7471A	Mercury	0.0777	J	mg/kg	04/11/2023 10:46
EPA 8270C-SIM	Pyrene	0.0188	J	mg/kg	04/07/2023 16:51
EPA 8082	Aroclor-1254 (PCB-1254)	293		ug/kg	04/07/2023 14:34

Lab ID	Client ID				Sampled
BED0011-34	SB-53-D0.5				04/04/2023 13:52
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Cadmium	1.81	J	mg/kg	04/07/2023 15:21
EPA 6010B	Lead	31.3		mg/kg	04/07/2023 15:21
EPA 6010B	Nickel	24.4		mg/kg	04/07/2023 15:21
EPA 7471A	Mercury	0.0272	J	mg/kg	04/11/2023 10:48
EPA 8081A	alpha-Chlordane	0.699	J	ug/kg	04/11/2023 00:19
EPA 8081A	gamma-Chlordane	0.701	J	ug/kg	04/11/2023 00:19
EPA 8081A	Chlordane (Total)	1.40	J	ug/kg	04/11/2023 00:19
EPA 8081A	4,4'-DDD (DDD)	0.498	J	ug/kg	04/11/2023 00:19
EPA 8081A	4,4'-DDE (DDE)	4.36		ug/kg	04/11/2023 00:19
EPA 8081A	4,4'-DDT (DDT)	5.88		ug/kg	04/11/2023 00:19
EPA 8081A	Dieldrin	0.629	J	ug/kg	04/11/2023 00:19

Lab ID	Client ID				Sampled
BED0011-35	SB-53-D0.5-DUP				04/04/2023 13:57
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	24.2		mg/kg	04/10/2023 12:25
EPA 6010B	Nickel	16.3		mg/kg	04/10/2023 12:25
EPA 7471A	Mercury	0.0258	J	mg/kg	04/11/2023 10:50
EPA 8081A	alpha-Chlordane	0.927	DIL, J	ug/kg	04/11/2023 00:36
EPA 8081A	gamma-Chlordane	0.844	DIL, J	ug/kg	04/11/2023 00:36
EPA 8081A	4,4'-DDD (DDD)	1.80	DIL, J	ug/kg	04/11/2023 00:36
EPA 8081A	4,4'-DDE (DDE)	7.38	DIL	ug/kg	04/11/2023 00:36
EPA 8081A	4,4'-DDT (DDT)	9.88	DIL	ug/kg	04/11/2023 00:36
EPA 8081A	Dieldrin	1.34	DIL, J	ug/kg	04/11/2023 00:36

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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56	

Positive Hits Summary
(Continued)

Lab ID	Client ID				Sampled
BED0011-38	SB-52-D0.5				04/04/2023 14:17
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	2.65	J	mg/kg	04/10/2023 12:28
EPA 6010B	Nickel	16.4		mg/kg	04/10/2023 12:28
EPA 7471A	Mercury	0.0217	J	mg/kg	04/11/2023 10:56

Lab ID	Client ID				Sampled
BED0011-41	SB-51-D0.5				04/04/2023 14:32
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	3.93	J	mg/kg	04/10/2023 12:31
EPA 6010B	Nickel	16.1		mg/kg	04/10/2023 12:31
EPA 7471A	Mercury	0.0211	J	mg/kg	04/11/2023 10:58
EPA 8081A	4,4'-DDD (DDD)	0.239	J	ug/kg	04/11/2023 01:10
EPA 8081A	4,4'-DDE (DDE)	4.23		ug/kg	04/11/2023 01:10
EPA 8081A	4,4'-DDT (DDT)	1.23		ug/kg	04/11/2023 01:10
EPA 8081A	Dieldrin	0.131	J	ug/kg	04/11/2023 01:10
EPA 8081A	Endrin	0.162	J	ug/kg	04/11/2023 01:10

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100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56	

Analytical Results

Client ID: SB-1-D0.5
Lab ID: BED0011-01 (Soil) **Sampled: 04/04/23 10:49**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Lead	**149**		1	0.550	5.00	mg/kg	04/06/23 09:18	04/07/23 14:33	B3D0054	DT	3050B
Organochlorine Pesticides											
Method: EPA 8081A											
Aldrin	ND		1	0.0900	1.00	ug/kg	04/10/23 11:32	04/10/23 20:38	B3D0100	BC	3550B
alpha-Chlordane	**8.33**		1	0.121	1.00	ug/kg	04/10/23 11:32	04/10/23 20:38	B3D0100	BC	3550B
gamma-Chlordane	**6.99**		1	0.114	1.00	ug/kg	04/10/23 11:32	04/10/23 20:38	B3D0100	BC	3550B
Chlordane (Total)	**15.3**		1	1.00	2.00	ug/kg	04/10/23 11:32	04/10/23 20:38	B3D0100	BC	3550B
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	ND		1	0.0620	1.00	ug/kg	04/10/23 11:32	04/10/23 20:38	B3D0100	BC	3550B
alpha-Hexachlorocyclohexane (Alpha-BHC)	ND		1	0.0710	1.00	ug/kg	04/10/23 11:32	04/10/23 20:38	B3D0100	BC	3550B
beta-Hexachlorocyclohexane (Betta-BHC)	ND		1	0.217	1.00	ug/kg	04/10/23 11:32	04/10/23 20:38	B3D0100	BC	3550B
delta-Hexachlorocyclohexane (Delta-BHC)	ND		1	0.0880	1.00	ug/kg	04/10/23 11:32	04/10/23 20:38	B3D0100	BC	3550B
4,4'-DDD (DDD)	**0.807**	J	1	0.0980	1.00	ug/kg	04/10/23 11:32	04/10/23 20:38	B3D0100	BC	3550B
4,4'-DDE (DDE)	**1.83**		1	0.0930	1.00	ug/kg	04/10/23 11:32	04/10/23 20:38	B3D0100	BC	3550B
4,4'-DDT (DDT)	**7.07**		1	0.235	1.00	ug/kg	04/10/23 11:32	04/10/23 20:38	B3D0100	BC	3550B
Dieldrin	**0.385**	J	1	0.0950	1.00	ug/kg	04/10/23 11:32	04/10/23 20:38	B3D0100	BC	3550B
Endrin	ND		1	0.106	1.00	ug/kg	04/10/23 11:32	04/10/23 20:38	B3D0100	BC	3550B
Endrin aldehyde	ND		1	0.117	1.00	ug/kg	04/10/23 11:32	04/10/23 20:38	B3D0100	BC	3550B
Endrin ketone	ND		1	0.122	1.00	ug/kg	04/10/23 11:32	04/10/23 20:38	B3D0100	BC	3550B
Endosulfan 1	ND		1	0.115	1.00	ug/kg	04/10/23 11:32	04/10/23 20:38	B3D0100	BC	3550B
Endosulfan 11	ND		1	0.177	1.00	ug/kg	04/10/23 11:32	04/10/23 20:38	B3D0100	BC	3550B
Endosulfan sulfate	ND		1	0.0470	1.00	ug/kg	04/10/23 11:32	04/10/23 20:38	B3D0100	BC	3550B
Heptachlor	ND		1	0.206	1.00	ug/kg	04/10/23 11:32	04/10/23 20:38	B3D0100	BC	3550B
Heptachlor epoxide	ND		1	0.101	1.00	ug/kg	04/10/23 11:32	04/10/23 20:38	B3D0100	BC	3550B
Methoxychlor	ND		1	0.310	1.00	ug/kg	04/10/23 11:32	04/10/23 20:38	B3D0100	BC	3550B
Toxaphene	ND		1	4.10	50.0	ug/kg	04/10/23 11:32	04/10/23 20:38	B3D0100	BC	3550B
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*90.9%*				*30-150*		04/10/23 11:32	*04/10/23 20:38*	B3D0100	*BC*	3550B
Surrogate: Tetrachloro-m-xylene	*74.5%*				*30-150*		04/10/23 11:32	*04/10/23 20:38*	B3D0100	*BC*	3550B

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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56	

Analytical Results

Client ID: SB-1-D0.5
Lab ID: BED0011-01 (Soil) **Sampled:** 04/04/23 10:49

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method

Organochlorine Pesticides (Continued)

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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56	

Analytical Results

Client ID: SB-5-D0.5
Lab ID: BED0011-04 (Soil) **Sampled: 04/04/23 8:18**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Lead	**13.2**		1	0.550	5.00	mg/kg	04/06/23 09:18	04/07/23 14:44	B3D0054	DT	3050B
Organochlorine Pesticides											
Method: EPA 8081A											
Aldrin	ND		1	0.0900	1.00	ug/kg	04/10/23 11:32	04/10/23 20:55	B3D0100	BC	3550B
alpha-Chlordane	**1.15**		1	0.121	1.00	ug/kg	04/10/23 11:32	04/10/23 20:55	B3D0100	BC	3550B
gamma-Chlordane	**0.727**	J	1	0.114	1.00	ug/kg	04/10/23 11:32	04/10/23 20:55	B3D0100	BC	3550B
Chlordane (Total)	**1.88**	J	1	1.00	2.00	ug/kg	04/10/23 11:32	04/10/23 20:55	B3D0100	BC	3550B
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	ND		1	0.0620	1.00	ug/kg	04/10/23 11:32	04/10/23 20:55	B3D0100	BC	3550B
alpha-Hexachlorocyclohexane (Alpha-BHC)	ND		1	0.0710	1.00	ug/kg	04/10/23 11:32	04/10/23 20:55	B3D0100	BC	3550B
beta-Hexachlorocyclohexane (Betta-BHC)	ND		1	0.217	1.00	ug/kg	04/10/23 11:32	04/10/23 20:55	B3D0100	BC	3550B
delta-Hexachlorocyclohexane (Delta-BHC)	ND		1	0.0880	1.00	ug/kg	04/10/23 11:32	04/10/23 20:55	B3D0100	BC	3550B
4,4'-DDD (DDD)	**0.148**	J	1	0.0980	1.00	ug/kg	04/10/23 11:32	04/10/23 20:55	B3D0100	BC	3550B
4,4'-DDE (DDE)	**2.01**		1	0.0930	1.00	ug/kg	04/10/23 11:32	04/10/23 20:55	B3D0100	BC	3550B
4,4'-DDT (DDT)	**1.41**		1	0.235	1.00	ug/kg	04/10/23 11:32	04/10/23 20:55	B3D0100	BC	3550B
Dieldrin	ND		1	0.0950	1.00	ug/kg	04/10/23 11:32	04/10/23 20:55	B3D0100	BC	3550B
Endrin	ND		1	0.106	1.00	ug/kg	04/10/23 11:32	04/10/23 20:55	B3D0100	BC	3550B
Endrin aldehyde	ND		1	0.117	1.00	ug/kg	04/10/23 11:32	04/10/23 20:55	B3D0100	BC	3550B
Endrin ketone	ND		1	0.122	1.00	ug/kg	04/10/23 11:32	04/10/23 20:55	B3D0100	BC	3550B
Endosulfan 1	ND		1	0.115	1.00	ug/kg	04/10/23 11:32	04/10/23 20:55	B3D0100	BC	3550B
Endosulfan 11	ND		1	0.177	1.00	ug/kg	04/10/23 11:32	04/10/23 20:55	B3D0100	BC	3550B
Endosulfan sulfate	ND		1	0.0470	1.00	ug/kg	04/10/23 11:32	04/10/23 20:55	B3D0100	BC	3550B
Heptachlor	ND		1	0.206	1.00	ug/kg	04/10/23 11:32	04/10/23 20:55	B3D0100	BC	3550B
Heptachlor epoxide	ND		1	0.101	1.00	ug/kg	04/10/23 11:32	04/10/23 20:55	B3D0100	BC	3550B
Methoxychlor	ND		1	0.310	1.00	ug/kg	04/10/23 11:32	04/10/23 20:55	B3D0100	BC	3550B
Toxaphene	ND		1	4.10	50.0	ug/kg	04/10/23 11:32	04/10/23 20:55	B3D0100	BC	3550B
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*87.2%*				*30-150*		04/10/23 11:32	*04/10/23 20:55*	B3D0100	*BC*	3550B
Surrogate: Tetrachloro-m-xylene	*63.8%*				*30-150*		04/10/23 11:32	*04/10/23 20:55*	B3D0100	*BC*	3550B

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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56	

Analytical Results

Client ID: **SB-5-D0.5**
Lab ID: **BED0011-04 (Soil)** **Sampled:** **04/04/23 8:18**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method

Organochlorine Pesticides (Continued)

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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56	

Analytical Results

Client ID: SB-8-D0.5
Lab ID: BED0011-07 (Soil) **Sampled: 04/04/23 7:27**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Lead	**21.1**		1	0.550	5.00	mg/kg	04/06/23 09:18	04/07/23 14:47	B3D0054	DT	3050B
Organochlorine Pesticides											
Method: EPA 8081A											
Aldrin	ND		1	0.0900	1.00	ug/kg	04/10/23 11:32	04/10/23 21:12	B3D0100	BC	3550B
alpha-Chlordane	ND		1	0.121	1.00	ug/kg	04/10/23 11:32	04/10/23 21:12	B3D0100	BC	3550B
gamma-Chlordane	ND		1	0.114	1.00	ug/kg	04/10/23 11:32	04/10/23 21:12	B3D0100	BC	3550B
Chlordane (Total)	ND		1	1.00	2.00	ug/kg	04/10/23 11:32	04/10/23 21:12	B3D0100	BC	3550B
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	ND		1	0.0620	1.00	ug/kg	04/10/23 11:32	04/10/23 21:12	B3D0100	BC	3550B
alpha-Hexachlorocyclohexane (Alpha-BHC)	ND		1	0.0710	1.00	ug/kg	04/10/23 11:32	04/10/23 21:12	B3D0100	BC	3550B
beta-Hexachlorocyclohexane (Betta-BHC)	ND		1	0.217	1.00	ug/kg	04/10/23 11:32	04/10/23 21:12	B3D0100	BC	3550B
delta-Hexachlorocyclohexane (Delta-BHC)	ND		1	0.0880	1.00	ug/kg	04/10/23 11:32	04/10/23 21:12	B3D0100	BC	3550B
4,4'-DDD (DDD)	ND		1	0.0980	1.00	ug/kg	04/10/23 11:32	04/10/23 21:12	B3D0100	BC	3550B
4,4'-DDE (DDE)	**0.246**	J	1	0.0930	1.00	ug/kg	04/10/23 11:32	04/10/23 21:12	B3D0100	BC	3550B
4,4'-DDT (DDT)	**0.375**	J	1	0.235	1.00	ug/kg	04/10/23 11:32	04/10/23 21:12	B3D0100	BC	3550B
Dieldrin	ND		1	0.0950	1.00	ug/kg	04/10/23 11:32	04/10/23 21:12	B3D0100	BC	3550B
Endrin	ND		1	0.106	1.00	ug/kg	04/10/23 11:32	04/10/23 21:12	B3D0100	BC	3550B
Endrin aldehyde	ND		1	0.117	1.00	ug/kg	04/10/23 11:32	04/10/23 21:12	B3D0100	BC	3550B
Endrin ketone	ND		1	0.122	1.00	ug/kg	04/10/23 11:32	04/10/23 21:12	B3D0100	BC	3550B
Endosulfan 1	ND		1	0.115	1.00	ug/kg	04/10/23 11:32	04/10/23 21:12	B3D0100	BC	3550B
Endosulfan 11	ND		1	0.177	1.00	ug/kg	04/10/23 11:32	04/10/23 21:12	B3D0100	BC	3550B
Endosulfan sulfate	ND		1	0.0470	1.00	ug/kg	04/10/23 11:32	04/10/23 21:12	B3D0100	BC	3550B
Heptachlor	ND		1	0.206	1.00	ug/kg	04/10/23 11:32	04/10/23 21:12	B3D0100	BC	3550B
Heptachlor epoxide	ND		1	0.101	1.00	ug/kg	04/10/23 11:32	04/10/23 21:12	B3D0100	BC	3550B
Methoxychlor	ND		1	0.310	1.00	ug/kg	04/10/23 11:32	04/10/23 21:12	B3D0100	BC	3550B
Toxaphene	ND		1	4.10	50.0	ug/kg	04/10/23 11:32	04/10/23 21:12	B3D0100	BC	3550B
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*80.0%*				*30-150*		04/10/23 11:32	*04/10/23 21:12*	B3D0100	*BC*	3550B
Surrogate: Tetrachloro-m-xylene	*65.1%*				*30-150*		04/10/23 11:32	*04/10/23 21:12*	B3D0100	*BC*	3550B

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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56	

Analytical Results

Client ID: **SB-8-D0.5**
Lab ID: **BED0011-07 (Soil)** **Sampled:** **04/04/23 7:27**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method

Organochlorine Pesticides (Continued)

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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56	

Analytical Results

Client ID: SB-12-D0.5
Lab ID: BED0011-10 (Soil) **Sampled: 04/04/23 7:50**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Lead	**7.97**		1	0.550	5.00	mg/kg	04/06/23 09:18	04/07/23 14:56	B3D0054	DT	3050B
Organochlorine Pesticides											
Method: EPA 8081A											
Aldrin	ND		1	0.0900	1.00	ug/kg	04/10/23 11:32	04/10/23 21:29	B3D0100	BC	3550B
alpha-Chlordane	ND		1	0.121	1.00	ug/kg	04/10/23 11:32	04/10/23 21:29	B3D0100	BC	3550B
gamma-Chlordane	ND		1	0.114	1.00	ug/kg	04/10/23 11:32	04/10/23 21:29	B3D0100	BC	3550B
Chlordane (Total)	ND		1	1.00	2.00	ug/kg	04/10/23 11:32	04/10/23 21:29	B3D0100	BC	3550B
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	ND		1	0.0620	1.00	ug/kg	04/10/23 11:32	04/10/23 21:29	B3D0100	BC	3550B
alpha-Hexachlorocyclohexane (Alpha-BHC)	ND		1	0.0710	1.00	ug/kg	04/10/23 11:32	04/10/23 21:29	B3D0100	BC	3550B
beta-Hexachlorocyclohexane (Betta-BHC)	ND		1	0.217	1.00	ug/kg	04/10/23 11:32	04/10/23 21:29	B3D0100	BC	3550B
delta-Hexachlorocyclohexane (Delta-BHC)	ND		1	0.0880	1.00	ug/kg	04/10/23 11:32	04/10/23 21:29	B3D0100	BC	3550B
4,4'-DDD (DDD)	ND		1	0.0980	1.00	ug/kg	04/10/23 11:32	04/10/23 21:29	B3D0100	BC	3550B
4,4'-DDE (DDE)	ND		1	0.0930	1.00	ug/kg	04/10/23 11:32	04/10/23 21:29	B3D0100	BC	3550B
4,4'-DDT (DDT)	ND		1	0.235	1.00	ug/kg	04/10/23 11:32	04/10/23 21:29	B3D0100	BC	3550B
Dieldrin	ND		1	0.0950	1.00	ug/kg	04/10/23 11:32	04/10/23 21:29	B3D0100	BC	3550B
Endrin	ND		1	0.106	1.00	ug/kg	04/10/23 11:32	04/10/23 21:29	B3D0100	BC	3550B
Endrin aldehyde	ND		1	0.117	1.00	ug/kg	04/10/23 11:32	04/10/23 21:29	B3D0100	BC	3550B
Endrin ketone	ND		1	0.122	1.00	ug/kg	04/10/23 11:32	04/10/23 21:29	B3D0100	BC	3550B
Endosulfan 1	ND		1	0.115	1.00	ug/kg	04/10/23 11:32	04/10/23 21:29	B3D0100	BC	3550B
Endosulfan 11	ND		1	0.177	1.00	ug/kg	04/10/23 11:32	04/10/23 21:29	B3D0100	BC	3550B
Endosulfan sulfate	ND		1	0.0470	1.00	ug/kg	04/10/23 11:32	04/10/23 21:29	B3D0100	BC	3550B
Heptachlor	ND		1	0.206	1.00	ug/kg	04/10/23 11:32	04/10/23 21:29	B3D0100	BC	3550B
Heptachlor epoxide	ND		1	0.101	1.00	ug/kg	04/10/23 11:32	04/10/23 21:29	B3D0100	BC	3550B
Methoxychlor	ND		1	0.310	1.00	ug/kg	04/10/23 11:32	04/10/23 21:29	B3D0100	BC	3550B
Toxaphene	ND		1	4.10	50.0	ug/kg	04/10/23 11:32	04/10/23 21:29	B3D0100	BC	3550B
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*35.8%*				*30-150*		04/10/23 11:32	*04/10/23 21:29*	B3D0100	*BC*	3550B
Surrogate: Tetrachloro-m-xylene	*29.2% S6*				*30-150*		04/10/23 11:32	*04/10/23 21:29*	B3D0100	*BC*	3550B

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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56	

Analytical Results

Client ID: **SB-12-D0.5**
Lab ID: **BED0011-10 (Soil)** **Sampled:** **04/04/23 7:50**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method

Organochlorine Pesticides (Continued)

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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56	

Analytical Results

Client ID: SB-50-D0.5
Lab ID: BED0011-13 (Soil) **Sampled: 04/04/23 14:52**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Lead	**29.1**		1	0.550	5.00	mg/kg	04/06/23 09:18	04/07/23 14:58	B3D0054	DT	3050B
Organochlorine Pesticides											
Method: EPA 8081A											
Aldrin	ND		1	0.0900	1.00	ug/kg	04/10/23 11:32	04/10/23 21:46	B3D0100	BC	3550B
alpha-Chlordane	**0.459**	J	1	0.121	1.00	ug/kg	04/10/23 11:32	04/10/23 21:46	B3D0100	BC	3550B
gamma-Chlordane	**0.254**	J	1	0.114	1.00	ug/kg	04/10/23 11:32	04/10/23 21:46	B3D0100	BC	3550B
Chlordane (Total)	ND		1	1.00	2.00	ug/kg	04/10/23 11:32	04/10/23 21:46	B3D0100	BC	3550B
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	ND		1	0.0620	1.00	ug/kg	04/10/23 11:32	04/10/23 21:46	B3D0100	BC	3550B
alpha-Hexachlorocyclohexane (Alpha-BHC)	ND		1	0.0710	1.00	ug/kg	04/10/23 11:32	04/10/23 21:46	B3D0100	BC	3550B
beta-Hexachlorocyclohexane (Betta-BHC)	ND		1	0.217	1.00	ug/kg	04/10/23 11:32	04/10/23 21:46	B3D0100	BC	3550B
delta-Hexachlorocyclohexane (Delta-BHC)	ND		1	0.0880	1.00	ug/kg	04/10/23 11:32	04/10/23 21:46	B3D0100	BC	3550B
4,4'-DDD (DDD)	**2.55**		1	0.0980	1.00	ug/kg	04/10/23 11:32	04/10/23 21:46	B3D0100	BC	3550B
4,4'-DDE (DDE)	**15.4**		1	0.0930	1.00	ug/kg	04/10/23 11:32	04/10/23 21:46	B3D0100	BC	3550B
4,4'-DDT (DDT)	**13.4**		1	0.235	1.00	ug/kg	04/10/23 11:32	04/10/23 21:46	B3D0100	BC	3550B
Dieldrin	**0.763**	J	1	0.0950	1.00	ug/kg	04/10/23 11:32	04/10/23 21:46	B3D0100	BC	3550B
Endrin	**0.730**	J	1	0.106	1.00	ug/kg	04/10/23 11:32	04/10/23 21:46	B3D0100	BC	3550B
Endrin aldehyde	ND		1	0.117	1.00	ug/kg	04/10/23 11:32	04/10/23 21:46	B3D0100	BC	3550B
Endrin ketone	ND		1	0.122	1.00	ug/kg	04/10/23 11:32	04/10/23 21:46	B3D0100	BC	3550B
Endosulfan 1	ND		1	0.115	1.00	ug/kg	04/10/23 11:32	04/10/23 21:46	B3D0100	BC	3550B
Endosulfan 11	ND		1	0.177	1.00	ug/kg	04/10/23 11:32	04/10/23 21:46	B3D0100	BC	3550B
Endosulfan sulfate	ND		1	0.0470	1.00	ug/kg	04/10/23 11:32	04/10/23 21:46	B3D0100	BC	3550B
Heptachlor	ND		1	0.206	1.00	ug/kg	04/10/23 11:32	04/10/23 21:46	B3D0100	BC	3550B
Heptachlor epoxide	ND		1	0.101	1.00	ug/kg	04/10/23 11:32	04/10/23 21:46	B3D0100	BC	3550B
Methoxychlor	ND		1	0.310	1.00	ug/kg	04/10/23 11:32	04/10/23 21:46	B3D0100	BC	3550B
Toxaphene	ND		1	4.10	50.0	ug/kg	04/10/23 11:32	04/10/23 21:46	B3D0100	BC	3550B
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*80.0%*				*30-150*		04/10/23 11:32	*04/10/23 21:46*	B3D0100	*BC*	3550B
Surrogate: Tetrachloro-m-xylene	*59.9%*				*30-150*		04/10/23 11:32	*04/10/23 21:46*	B3D0100	*BC*	3550B

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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56	

Analytical Results

Client ID: **SB-50-D0.5**
Lab ID: **BED0011-13 (Soil)** **Sampled:** **04/04/23 14:52**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method

Organochlorine Pesticides (Continued)

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Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56	

Analytical Results

Client ID: SB-3-D0.5

Lab ID: BED0011-16 (Soil) **Sampled: 04/04/23 9:10**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Lead	**171**		1	0.550	5.00	mg/kg	04/06/23 09:18	04/07/23 15:01	B3D0054	DT	3050B
Volatile Organic Compounds											
Method: EPA 8260B											
Acetone	**151**		1	25.0	50.0	ug/kg	04/06/23 09:00	04/06/23 16:39	B3D0057	DK	5035A
Benzene	ND		1	0.510	1.00	ug/kg	04/06/23 09:00	04/06/23 16:39	B3D0057	DK	5035A
Bromobenzene (Phenyl bromide)	ND		1	0.400	5.00	ug/kg	04/06/23 09:00	04/06/23 16:39	B3D0057	DK	5035A
Bromochloromethane	ND		1	0.500	5.00	ug/kg	04/06/23 09:00	04/06/23 16:39	B3D0057	DK	5035A
Bromodichloromethane	ND		1	0.870	5.00	ug/kg	04/06/23 09:00	04/06/23 16:39	B3D0057	DK	5035A
Bromoform (Tribromomethane)	ND		1	0.610	5.00	ug/kg	04/06/23 09:00	04/06/23 16:39	B3D0057	DK	5035A
Bromomethane (Methyl bromide)	ND		1	3.77	10.0	ug/kg	04/06/23 09:00	04/06/23 16:39	B3D0057	DK	5035A
2-Butanone (MEK)	ND		1	25.0	50.0	ug/kg	04/06/23 09:00	04/06/23 16:39	B3D0057	DK	5035A
n-Butylbenzene	ND		1	1.32	5.00	ug/kg	04/06/23 09:00	04/06/23 16:39	B3D0057	DK	5035A
sec-Butylbenzene	ND		1	0.340	5.00	ug/kg	04/06/23 09:00	04/06/23 16:39	B3D0057	DK	5035A
tert-Butylbenzene	ND		1	0.350	5.00	ug/kg	04/06/23 09:00	04/06/23 16:39	B3D0057	DK	5035A
Carbon Disulfide	ND		1	0.700	5.00	ug/kg	04/06/23 09:00	04/06/23 16:39	B3D0057	DK	5035A
Carbon tetrachloride	ND		1	0.460	5.00	ug/kg	04/06/23 09:00	04/06/23 16:39	B3D0057	DK	5035A
Chlorobenzene	ND		1	0.380	5.00	ug/kg	04/06/23 09:00	04/06/23 16:39	B3D0057	DK	5035A
Chloroethane	ND		1	1.77	5.00	ug/kg	04/06/23 09:00	04/06/23 16:39	B3D0057	DK	5035A
2-Chloroethyl vinyl ether	ND		1	1.53	5.00	ug/kg	04/06/23 09:00	04/06/23 16:39	B3D0057	DK	5035A
Chloroform (Trichloromethane)	ND		1	0.460	5.00	ug/kg	04/06/23 09:00	04/06/23 16:39	B3D0057	DK	5035A
Chloromethane (Methyl chloride)	ND		1	0.760	5.00	ug/kg	04/06/23 09:00	04/06/23 16:39	B3D0057	DK	5035A
2-Chlorotoluene	ND		1	5.00	10.0	ug/kg	04/06/23 09:00	04/06/23 16:39	B3D0057	DK	5035A
4-Chlorotoluene	ND		1	0.470	5.00	ug/kg	04/06/23 09:00	04/06/23 16:39	B3D0057	DK	5035A
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	4.32	10.0	ug/kg	04/06/23 09:00	04/06/23 16:39	B3D0057	DK	5035A
Dibromochloromethane	ND		1	0.320	5.00	ug/kg	04/06/23 09:00	04/06/23 16:39	B3D0057	DK	5035A
1,2-Dibromoethane (EDB)	ND		1	0.320	5.00	ug/kg	04/06/23 09:00	04/06/23 16:39	B3D0057	DK	5035A
Dibromomethane	ND		1	0.280	5.00	ug/kg	04/06/23 09:00	04/06/23 16:39	B3D0057	DK	5035A
1,2-Dichlorobenzene	ND		1	0.820	5.00	ug/kg	04/06/23 09:00	04/06/23 16:39	B3D0057	DK	5035A
1,3-Dichlorobenzene	ND		1	0.410	5.00	ug/kg	04/06/23 09:00	04/06/23 16:39	B3D0057	DK	5035A
1,4-Dichlorobenzene	ND		1	1.09	5.00	ug/kg	04/06/23 09:00	04/06/23 16:39	B3D0057	DK	5035A
Dichlorodifluoromethane	ND		1	1.02	5.00	ug/kg	04/06/23 09:00	04/06/23 16:39	B3D0057	DK	5035A
1,1-Dichloroethane	ND		1	1.48	5.00	ug/kg	04/06/23 09:00	04/06/23 16:39	B3D0057	DK	5035A

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100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56	

Analytical Results

Client ID: SB-3-D0.5
Lab ID: BED0011-16 (Soil) **Sampled:** 04/04/23 9:10

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Volatile Organic Compounds (Continued)											
1,2-Dichloroethane (EDC)	ND		1	0.590	5.00	ug/kg	04/06/23 09:00	04/06/23 16:39	B3D0057	DK	5035A
1,1-Dichloroethene	ND		1	0.710	5.00	ug/kg	04/06/23 09:00	04/06/23 16:39	B3D0057	DK	5035A
cis-1,2-Dichloroethene	ND		1	0.670	5.00	ug/kg	04/06/23 09:00	04/06/23 16:39	B3D0057	DK	5035A
trans-1,2-Dichloroethene	ND		1	0.760	5.00	ug/kg	04/06/23 09:00	04/06/23 16:39	B3D0057	DK	5035A
1,2-Dichloropropane	ND		1	0.380	5.00	ug/kg	04/06/23 09:00	04/06/23 16:39	B3D0057	DK	5035A
1,3-Dichloropropane	ND		1	5.00	10.0	ug/kg	04/06/23 09:00	04/06/23 16:39	B3D0057	DK	5035A
2,2-Dichloropropane	ND		1	5.00	10.0	ug/kg	04/06/23 09:00	04/06/23 16:39	B3D0057	DK	5035A
1,1-Dichloropropene	ND		1	5.00	10.0	ug/kg	04/06/23 09:00	04/06/23 16:39	B3D0057	DK	5035A
cis-1,3-Dichloropropene	ND		1	0.360	5.00	ug/kg	04/06/23 09:00	04/06/23 16:39	B3D0057	DK	5035A
trans-1,3-Dichloropropene	ND		1	0.360	5.00	ug/kg	04/06/23 09:00	04/06/23 16:39	B3D0057	DK	5035A
Ethylbenzene	ND		1	0.340	1.00	ug/kg	04/06/23 09:00	04/06/23 16:39	B3D0057	DK	5035A
Hexachlorobutadiene	ND		1	0.860	5.00	ug/kg	04/06/23 09:00	04/06/23 16:39	B3D0057	DK	5035A
2-Hexanone	ND		1	25.0	50.0	ug/kg	04/06/23 09:00	04/06/23 16:39	B3D0057	DK	5035A
Iodomethane	ND		1	5.00	10.0	ug/kg	04/06/23 09:00	04/06/23 16:39	B3D0057	DK	5035A
Isopropylbenzene	ND		1	5.00	10.0	ug/kg	04/06/23 09:00	04/06/23 16:39	B3D0057	DK	5035A
p-Isopropyltoluene	ND		1	5.00	10.0	ug/kg	04/06/23 09:00	04/06/23 16:39	B3D0057	DK	5035A
4-Methyl-2-pentanone (MIBK)	ND		1	1.11	5.00	ug/kg	04/06/23 09:00	04/06/23 16:39	B3D0057	DK	5035A
Methyl-tert-butyl ether (MTBE)	ND		1	0.480	1.00	ug/kg	04/06/23 09:00	04/06/23 16:39	B3D0057	DK	5035A
Methylene chloride (DCM)	ND		1	2.00	50.0	ug/kg	04/06/23 09:00	04/06/23 16:39	B3D0057	DK	5035A
Naphthalene	ND		1	3.72	10.0	ug/kg	04/06/23 09:00	04/06/23 16:39	B3D0057	DK	5035A
n-Propylbenzene	ND		1	0.320	5.00	ug/kg	04/06/23 09:00	04/06/23 16:39	B3D0057	DK	5035A
Styrene	ND		1	0.380	5.00	ug/kg	04/06/23 09:00	04/06/23 16:39	B3D0057	DK	5035A
1,1,1,2-Tetrachloroethane	ND		1	0.370	5.00	ug/kg	04/06/23 09:00	04/06/23 16:39	B3D0057	DK	5035A
1,1,2,2-Tetrachloroethane	ND		1	0.780	5.00	ug/kg	04/06/23 09:00	04/06/23 16:39	B3D0057	DK	5035A
Tetrachloroethene	ND		1	0.430	5.00	ug/kg	04/06/23 09:00	04/06/23 16:39	B3D0057	DK	5035A
Toluene (Methyl benzene)	**2.73**		1	0.360	1.00	ug/kg	04/06/23 09:00	04/06/23 16:39	B3D0057	DK	5035A
1,2,3-Trichlorobenzene	ND		1	5.00	10.0	ug/kg	04/06/23 09:00	04/06/23 16:39	B3D0057	DK	5035A
1,2,4-Trichlorobenzene	ND		1	1.31	5.00	ug/kg	04/06/23 09:00	04/06/23 16:39	B3D0057	DK	5035A
1,1,1-Trichloroethane	ND		1	0.490	5.00	ug/kg	04/06/23 09:00	04/06/23 16:39	B3D0057	DK	5035A
1,1,2-Trichloroethane	ND		1	0.380	5.00	ug/kg	04/06/23 09:00	04/06/23 16:39	B3D0057	DK	5035A
Trichloroethene	ND		1	0.430	5.00	ug/kg	04/06/23 09:00	04/06/23 16:39	B3D0057	DK	5035A
Trichlorofluoromethane	ND		1	0.470	5.00	ug/kg	04/06/23 09:00	04/06/23 16:39	B3D0057	DK	5035A
1,2,3-Trichloropropane	ND		1	0.640	5.00	ug/kg	04/06/23 09:00	04/06/23 16:39	B3D0057	DK	5035A
1,2,4-Trimethylbenzene	ND		1	5.00	10.0	ug/kg	04/06/23 09:00	04/06/23 16:39	B3D0057	DK	5035A
1,3,5-Trimethylbenzene	ND		1	5.00	10.0	ug/kg	04/06/23 09:00	04/06/23 16:39	B3D0057	DK	5035A
Vinyl Acetate	ND		1	25.0	50.0	ug/kg	04/06/23 09:00	04/06/23 16:39	B3D0057	DK	5035A

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100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56	

Analytical Results

Client ID: SB-3-D0.5

Lab ID: BED0011-16 (Soil) **Sampled: 04/04/23 9:10**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Volatile Organic Compounds (Continued)											
Vinyl chloride (Chloroethene)	ND		1	5.00	10.0	ug/kg	04/06/23 09:00	04/06/23 16:39	B3D0057	DK	5035A
o-Xylene	ND		1	0.360	1.00	ug/kg	04/06/23 09:00	04/06/23 16:39	B3D0057	DK	5035A
m,p-Xylenes	ND		1	2.00	20.0	ug/kg	04/06/23 09:00	04/06/23 16:39	B3D0057	DK	5035A
	Recovery				Acceptance Criteria						
Surrogate: Bromofluorobenzene	*92.8%*				*75-125*		04/06/23 09:00	*04/06/23 16:39*	B3D0057	*DK*	5035A
Surrogate: Dibromofluoromethane	*91.1%*				*75-125*		04/06/23 09:00	*04/06/23 16:39*	B3D0057	*DK*	5035A
Surrogate: Toluene-d8	*97.6%*				*75-125*		04/06/23 09:00	*04/06/23 16:39*	B3D0057	*DK*	5035A
TPH Gasoline Range											
Method: EPA 8015B TPH GRO											
TPH as Gasoline and Light HC. (C4-C12)	ND		1	0.116	0.200	mg/kg	04/06/23 10:47	04/06/23 10:47	B3D0051	BK	5035A
	Recovery				Acceptance Criteria						
Surrogate: Bromofluorobenzene	*90.7%*				*75-120*		04/06/23 10:47	*04/06/23 10:47*	B3D0051	*BK*	5035A
TPH Diesel Range											
Method: EPA 8015B TPH DRO/ORO											
TPH as Diesel (C13-C22)	ND		1	1.62	10.0	mg/kg	04/06/23 12:02	04/06/23 22:09	B3D0053	TTN	3550B
TPH as Heavy Hydrocarbons (C23-40)	ND		1	1.62	10.0	mg/kg	04/06/23 12:02	04/06/23 22:09	B3D0053	TTN	3550B
TPH Total as Diesel and Heavy HC (C13-C40)	ND		1	1.62	10.0	mg/kg	04/06/23 12:02	04/06/23 22:09	B3D0053	TTN	3550B
	Recovery				Acceptance Criteria						
Surrogate: Chlorobenzene	*109%*				*75-125*		04/06/23 12:02	*04/06/23 22:09*	B3D0053	*TTN*	3550B
Organochlorine Pesticides											
Method: EPA 8081A											
Aldrin	ND		1	0.0900	1.00	ug/kg	04/10/23 11:32	04/10/23 22:03	B3D0100	BC	3550B
alpha-Chlordane	**19.3**		1	0.121	1.00	ug/kg	04/10/23 11:32	04/10/23 22:03	B3D0100	BC	3550B
gamma-Chlordane	**18.9**		1	0.114	1.00	ug/kg	04/10/23 11:32	04/10/23 22:03	B3D0100	BC	3550B
Chlordane (Total)	**38.3**		1	1.00	2.00	ug/kg	04/10/23 11:32	04/10/23 22:03	B3D0100	BC	3550B
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	ND		1	0.0620	1.00	ug/kg	04/10/23 11:32	04/10/23 22:03	B3D0100	BC	3550B

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Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56	

Analytical Results

Client ID: SB-3-D0.5

Lab ID: BED0011-16 (Soil) **Sampled: 04/04/23 9:10**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Organochlorine Pesticides (Continued)											
alpha-Hexachlorocyclohexane (Alpha-BHC)	ND		1	0.0710	1.00	ug/kg	04/10/23 11:32	04/10/23 22:03	B3D0100	BC	3550B
beta-Hexachlorocyclohexane (Betta-BHC)	ND		1	0.217	1.00	ug/kg	04/10/23 11:32	04/10/23 22:03	B3D0100	BC	3550B
delta-Hexachlorocyclohexane (Delta-BHC)	ND		1	0.0880	1.00	ug/kg	04/10/23 11:32	04/10/23 22:03	B3D0100	BC	3550B
4,4'-DDD (DDD)	**2.00**		1	0.0980	1.00	ug/kg	04/10/23 11:32	04/10/23 22:03	B3D0100	BC	3550B
4,4'-DDE (DDE)	**36.3**		1	0.0930	1.00	ug/kg	04/10/23 11:32	04/10/23 22:03	B3D0100	BC	3550B
4,4'-DDT (DDT)	**28.4**		1	0.235	1.00	ug/kg	04/10/23 11:32	04/10/23 22:03	B3D0100	BC	3550B
Dieldrin	**7.63**		1	0.0950	1.00	ug/kg	04/10/23 11:32	04/10/23 22:03	B3D0100	BC	3550B
Endrin	**0.481**	J	1	0.106	1.00	ug/kg	04/10/23 11:32	04/10/23 22:03	B3D0100	BC	3550B
Endrin aldehyde	ND		1	0.117	1.00	ug/kg	04/10/23 11:32	04/10/23 22:03	B3D0100	BC	3550B
Endrin ketone	ND		1	0.122	1.00	ug/kg	04/10/23 11:32	04/10/23 22:03	B3D0100	BC	3550B
Endosulfan 1	ND		1	0.115	1.00	ug/kg	04/10/23 11:32	04/10/23 22:03	B3D0100	BC	3550B
Endosulfan 11	ND		1	0.177	1.00	ug/kg	04/10/23 11:32	04/10/23 22:03	B3D0100	BC	3550B
Endosulfan sulfate	ND		1	0.0470	1.00	ug/kg	04/10/23 11:32	04/10/23 22:03	B3D0100	BC	3550B
Heptachlor	ND		1	0.206	1.00	ug/kg	04/10/23 11:32	04/10/23 22:03	B3D0100	BC	3550B
Heptachlor epoxide	**0.789**	J	1	0.101	1.00	ug/kg	04/10/23 11:32	04/10/23 22:03	B3D0100	BC	3550B
Methoxychlor	ND		1	0.310	1.00	ug/kg	04/10/23 11:32	04/10/23 22:03	B3D0100	BC	3550B
Toxaphene	**68.0**		1	4.10	50.0	ug/kg	04/10/23 11:32	04/10/23 22:03	B3D0100	BC	3550B
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*67.4%*				*30-150*		04/10/23 11:32	*04/10/23 22:03*	B3D0100	*BC*	3550B
Surrogate: Tetrachloro-m-xylene	*56.2%*				*30-150*		04/10/23 11:32	*04/10/23 22:03*	B3D0100	*BC*	3550B

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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56	

Analytical Results

Client ID: SB-3-D0.5-DUP
Lab ID: BED0011-17 (Soil) **Sampled: 04/04/23 9:15**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Lead	**174**		1	0.550	5.00	mg/kg	04/06/23 09:18	04/07/23 15:04	B3D0054	DT	3050B
Volatile Organic Compounds											
Method: EPA 8260B											
Acetone	**132**		1	25.0	50.0	ug/kg	04/06/23 09:00	04/06/23 17:11	B3D0057	DK	5035A
Benzene	**0.692**	J	1	0.510	1.00	ug/kg	04/06/23 09:00	04/06/23 17:11	B3D0057	DK	5035A
Bromobenzene (Phenyl bromide)	ND		1	0.400	5.00	ug/kg	04/06/23 09:00	04/06/23 17:11	B3D0057	DK	5035A
Bromochloromethane	ND		1	0.500	5.00	ug/kg	04/06/23 09:00	04/06/23 17:11	B3D0057	DK	5035A
Bromodichloromethane	ND		1	0.870	5.00	ug/kg	04/06/23 09:00	04/06/23 17:11	B3D0057	DK	5035A
Bromoform (Tribromomethane)	ND		1	0.610	5.00	ug/kg	04/06/23 09:00	04/06/23 17:11	B3D0057	DK	5035A
Bromomethane (Methyl bromide)	ND		1	3.77	10.0	ug/kg	04/06/23 09:00	04/06/23 17:11	B3D0057	DK	5035A
2-Butanone (MEK)	ND		1	25.0	50.0	ug/kg	04/06/23 09:00	04/06/23 17:11	B3D0057	DK	5035A
n-Butylbenzene	ND		1	1.32	5.00	ug/kg	04/06/23 09:00	04/06/23 17:11	B3D0057	DK	5035A
sec-Butylbenzene	ND		1	0.340	5.00	ug/kg	04/06/23 09:00	04/06/23 17:11	B3D0057	DK	5035A
tert-Butylbenzene	ND		1	0.350	5.00	ug/kg	04/06/23 09:00	04/06/23 17:11	B3D0057	DK	5035A
Carbon Disulfide	ND		1	0.700	5.00	ug/kg	04/06/23 09:00	04/06/23 17:11	B3D0057	DK	5035A
Carbon tetrachloride	ND		1	0.460	5.00	ug/kg	04/06/23 09:00	04/06/23 17:11	B3D0057	DK	5035A
Chlorobenzene	ND		1	0.380	5.00	ug/kg	04/06/23 09:00	04/06/23 17:11	B3D0057	DK	5035A
Chloroethane	ND		1	1.77	5.00	ug/kg	04/06/23 09:00	04/06/23 17:11	B3D0057	DK	5035A
2-Chloroethyl vinyl ether	ND		1	1.53	5.00	ug/kg	04/06/23 09:00	04/06/23 17:11	B3D0057	DK	5035A
Chloroform (Trichloromethane)	ND		1	0.460	5.00	ug/kg	04/06/23 09:00	04/06/23 17:11	B3D0057	DK	5035A
Chloromethane (Methyl chloride)	ND		1	0.760	5.00	ug/kg	04/06/23 09:00	04/06/23 17:11	B3D0057	DK	5035A
2-Chlorotoluene	ND		1	5.00	10.0	ug/kg	04/06/23 09:00	04/06/23 17:11	B3D0057	DK	5035A
4-Chlorotoluene	ND		1	0.470	5.00	ug/kg	04/06/23 09:00	04/06/23 17:11	B3D0057	DK	5035A
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	4.32	10.0	ug/kg	04/06/23 09:00	04/06/23 17:11	B3D0057	DK	5035A
Dibromochloromethane	ND		1	0.320	5.00	ug/kg	04/06/23 09:00	04/06/23 17:11	B3D0057	DK	5035A
1,2-Dibromoethane (EDB)	ND		1	0.320	5.00	ug/kg	04/06/23 09:00	04/06/23 17:11	B3D0057	DK	5035A
Dibromomethane	ND		1	0.280	5.00	ug/kg	04/06/23 09:00	04/06/23 17:11	B3D0057	DK	5035A
1,2-Dichlorobenzene	ND		1	0.820	5.00	ug/kg	04/06/23 09:00	04/06/23 17:11	B3D0057	DK	5035A
1,3-Dichlorobenzene	ND		1	0.410	5.00	ug/kg	04/06/23 09:00	04/06/23 17:11	B3D0057	DK	5035A
1,4-Dichlorobenzene	ND		1	1.09	5.00	ug/kg	04/06/23 09:00	04/06/23 17:11	B3D0057	DK	5035A
Dichlorodifluoromethane	ND		1	1.02	5.00	ug/kg	04/06/23 09:00	04/06/23 17:11	B3D0057	DK	5035A
1,1-Dichloroethane	ND		1	1.48	5.00	ug/kg	04/06/23 09:00	04/06/23 17:11	B3D0057	DK	5035A

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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56	

Analytical Results

Client ID: SB-3-D0.5-DUP
Lab ID: BED0011-17 (Soil) **Sampled:** 04/04/23 9:15

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Volatile Organic Compounds (Continued)											
1,2-Dichloroethane (EDC)	ND		1	0.590	5.00	ug/kg	04/06/23 09:00	04/06/23 17:11	B3D0057	DK	5035A
1,1-Dichloroethene	ND		1	0.710	5.00	ug/kg	04/06/23 09:00	04/06/23 17:11	B3D0057	DK	5035A
cis-1,2-Dichloroethene	ND		1	0.670	5.00	ug/kg	04/06/23 09:00	04/06/23 17:11	B3D0057	DK	5035A
trans-1,2-Dichloroethene	ND		1	0.760	5.00	ug/kg	04/06/23 09:00	04/06/23 17:11	B3D0057	DK	5035A
1,2-Dichloropropane	ND		1	0.380	5.00	ug/kg	04/06/23 09:00	04/06/23 17:11	B3D0057	DK	5035A
1,3-Dichloropropane	ND		1	5.00	10.0	ug/kg	04/06/23 09:00	04/06/23 17:11	B3D0057	DK	5035A
2,2-Dichloropropane	ND		1	5.00	10.0	ug/kg	04/06/23 09:00	04/06/23 17:11	B3D0057	DK	5035A
1,1-Dichloropropene	ND		1	5.00	10.0	ug/kg	04/06/23 09:00	04/06/23 17:11	B3D0057	DK	5035A
cis-1,3-Dichloropropene	ND		1	0.360	5.00	ug/kg	04/06/23 09:00	04/06/23 17:11	B3D0057	DK	5035A
trans-1,3-Dichloropropene	ND		1	0.360	5.00	ug/kg	04/06/23 09:00	04/06/23 17:11	B3D0057	DK	5035A
Ethylbenzene	ND		1	0.340	1.00	ug/kg	04/06/23 09:00	04/06/23 17:11	B3D0057	DK	5035A
Hexachlorobutadiene	ND		1	0.860	5.00	ug/kg	04/06/23 09:00	04/06/23 17:11	B3D0057	DK	5035A
2-Hexanone	ND		1	25.0	50.0	ug/kg	04/06/23 09:00	04/06/23 17:11	B3D0057	DK	5035A
Iodomethane	ND		1	5.00	10.0	ug/kg	04/06/23 09:00	04/06/23 17:11	B3D0057	DK	5035A
Isopropylbenzene	ND		1	5.00	10.0	ug/kg	04/06/23 09:00	04/06/23 17:11	B3D0057	DK	5035A
p-Isopropyltoluene	ND		1	5.00	10.0	ug/kg	04/06/23 09:00	04/06/23 17:11	B3D0057	DK	5035A
4-Methyl-2-pentanone (MIBK)	ND		1	1.11	5.00	ug/kg	04/06/23 09:00	04/06/23 17:11	B3D0057	DK	5035A
Methyl-tert-butyl ether (MTBE)	ND		1	0.480	1.00	ug/kg	04/06/23 09:00	04/06/23 17:11	B3D0057	DK	5035A
Methylene chloride (DCM)	ND		1	2.00	50.0	ug/kg	04/06/23 09:00	04/06/23 17:11	B3D0057	DK	5035A
Naphthalene	ND		1	3.72	10.0	ug/kg	04/06/23 09:00	04/06/23 17:11	B3D0057	DK	5035A
n-Propylbenzene	ND		1	0.320	5.00	ug/kg	04/06/23 09:00	04/06/23 17:11	B3D0057	DK	5035A
Styrene	ND		1	0.380	5.00	ug/kg	04/06/23 09:00	04/06/23 17:11	B3D0057	DK	5035A
1,1,1,2-Tetrachloroethane	ND		1	0.370	5.00	ug/kg	04/06/23 09:00	04/06/23 17:11	B3D0057	DK	5035A
1,1,2,2-Tetrachloroethane	ND		1	0.780	5.00	ug/kg	04/06/23 09:00	04/06/23 17:11	B3D0057	DK	5035A
Tetrachloroethene	ND		1	0.430	5.00	ug/kg	04/06/23 09:00	04/06/23 17:11	B3D0057	DK	5035A
Toluene (Methyl benzene)	**2.50**		1	0.360	1.00	ug/kg	04/06/23 09:00	04/06/23 17:11	B3D0057	DK	5035A
1,2,3-Trichlorobenzene	ND		1	5.00	10.0	ug/kg	04/06/23 09:00	04/06/23 17:11	B3D0057	DK	5035A
1,2,4-Trichlorobenzene	ND		1	1.31	5.00	ug/kg	04/06/23 09:00	04/06/23 17:11	B3D0057	DK	5035A
1,1,1-Trichloroethane	ND		1	0.490	5.00	ug/kg	04/06/23 09:00	04/06/23 17:11	B3D0057	DK	5035A
1,1,2-Trichloroethane	ND		1	0.380	5.00	ug/kg	04/06/23 09:00	04/06/23 17:11	B3D0057	DK	5035A
Trichloroethene	ND		1	0.430	5.00	ug/kg	04/06/23 09:00	04/06/23 17:11	B3D0057	DK	5035A
Trichlorofluoromethane	ND		1	0.470	5.00	ug/kg	04/06/23 09:00	04/06/23 17:11	B3D0057	DK	5035A
1,2,3-Trichloropropane	ND		1	0.640	5.00	ug/kg	04/06/23 09:00	04/06/23 17:11	B3D0057	DK	5035A
1,2,4-Trimethylbenzene	ND		1	5.00	10.0	ug/kg	04/06/23 09:00	04/06/23 17:11	B3D0057	DK	5035A
1,3,5-Trimethylbenzene	ND		1	5.00	10.0	ug/kg	04/06/23 09:00	04/06/23 17:11	B3D0057	DK	5035A
Vinyl Acetate	ND		1	25.0	50.0	ug/kg	04/06/23 09:00	04/06/23 17:11	B3D0057	DK	5035A

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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56	

Analytical Results

Client ID: SB-3-D0.5-DUP
Lab ID: BED0011-17 (Soil) **Sampled: 04/04/23 9:15**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Volatile Organic Compounds (Continued)											
Vinyl chloride (Chloroethene)	ND		1	5.00	10.0	ug/kg	04/06/23 09:00	04/06/23 17:11	B3D0057	DK	5035A
o-Xylene	ND		1	0.360	1.00	ug/kg	04/06/23 09:00	04/06/23 17:11	B3D0057	DK	5035A
m,p-Xylenes	ND		1	2.00	20.0	ug/kg	04/06/23 09:00	04/06/23 17:11	B3D0057	DK	5035A
	Recovery				Acceptance Criteria						
Surrogate: Bromofluorobenzene	*95.8%*				*75-125*		04/06/23 09:00	*04/06/23 17:11*	B3D0057	*DK*	5035A
Surrogate: Dibromofluoromethane	*88.6%*				*75-125*		04/06/23 09:00	*04/06/23 17:11*	B3D0057	*DK*	5035A
Surrogate: Toluene-d8	*97.9%*				*75-125*		04/06/23 09:00	*04/06/23 17:11*	B3D0057	*DK*	5035A
TPH Gasoline Range											
Method: EPA 8015B TPH GRO											
TPH as Gasoline and Light HC. (C4-C12)	**0.228**		1	0.116	0.200	mg/kg	04/06/23 10:47	04/06/23 11:20	B3D0051	BK	5035A
	Recovery				Acceptance Criteria						
Surrogate: Bromofluorobenzene	*94.5%*				*75-120*		04/06/23 10:47	*04/06/23 11:20*	B3D0051	*BK*	5035A
TPH Diesel Range											
Method: EPA 8015B TPH DRO/ORO											
TPH as Diesel (C13-C22)	ND		1	1.62	10.0	mg/kg	04/06/23 12:02	04/06/23 22:45	B3D0053	TTN	3550B
TPH as Heavy Hydrocarbons (C23-40)	ND		1	1.62	10.0	mg/kg	04/06/23 12:02	04/06/23 22:45	B3D0053	TTN	3550B
TPH Total as Diesel and Heavy HC (C13-C40)	ND		1	1.62	10.0	mg/kg	04/06/23 12:02	04/06/23 22:45	B3D0053	TTN	3550B
	Recovery				Acceptance Criteria						
Surrogate: Chlorobenzene	*102%*				*75-125*		04/06/23 12:02	*04/06/23 22:45*	B3D0053	*TTN*	3550B
Organochlorine Pesticides											
Method: EPA 8081A											
Aldrin	ND	D	2	0.180	2.00	ug/kg	04/10/23 11:32	04/10/23 22:20	B3D0100	BC	3550B
alpha-Chlordane	**24.9**	DIL	2	0.242	2.00	ug/kg	04/10/23 11:32	04/10/23 22:20	B3D0100	BC	3550B
gamma-Chlordane	**24.5**	DIL	2	0.228	2.00	ug/kg	04/10/23 11:32	04/10/23 22:20	B3D0100	BC	3550B
Chlordane (Total)	**49.3**	DIL	2	2.00	4.00	ug/kg	04/10/23 11:32	04/10/23 22:20	B3D0100	BC	3550B
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	ND	D	2	0.124	2.00	ug/kg	04/10/23 11:32	04/10/23 22:20	B3D0100	BC	3550B

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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56	

Analytical Results

Client ID: SB-3-D0.5-DUP

Lab ID: BED0011-17 (Soil) **Sampled: 04/04/23 9:15**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Organochlorine Pesticides (Continued)											
alpha-Hexachlorocyclohexane (Alpha-BHC)	ND	D	2	0.142	2.00	ug/kg	04/10/23 11:32	04/10/23 22:20	B3D0100	BC	3550B
beta-Hexachlorocyclohexane (Betta-BHC)	ND	D	2	0.434	2.00	ug/kg	04/10/23 11:32	04/10/23 22:20	B3D0100	BC	3550B
delta-Hexachlorocyclohexane (Delta-BHC)	ND	D	2	0.176	2.00	ug/kg	04/10/23 11:32	04/10/23 22:20	B3D0100	BC	3550B
4,4'-DDD (DDD)	**2.55**	DIL	2	0.196	2.00	ug/kg	04/10/23 11:32	04/10/23 22:20	B3D0100	BC	3550B
4,4'-DDE (DDE)	**39.5**	DIL	2	0.186	2.00	ug/kg	04/10/23 11:32	04/10/23 22:20	B3D0100	BC	3550B
4,4'-DDT (DDT)	**38.4**	DIL	2	0.470	2.00	ug/kg	04/10/23 11:32	04/10/23 22:20	B3D0100	BC	3550B
Dieldrin	**9.08**	DIL	2	0.190	2.00	ug/kg	04/10/23 11:32	04/10/23 22:20	B3D0100	BC	3550B
Endrin	**1.38**	DIL, J	2	0.212	2.00	ug/kg	04/10/23 11:32	04/10/23 22:20	B3D0100	BC	3550B
Endrin aldehyde	ND	D	2	0.234	2.00	ug/kg	04/10/23 11:32	04/10/23 22:20	B3D0100	BC	3550B
Endrin ketone	ND	D	2	0.244	2.00	ug/kg	04/10/23 11:32	04/10/23 22:20	B3D0100	BC	3550B
Endosulfan 1	ND	D	2	0.230	2.00	ug/kg	04/10/23 11:32	04/10/23 22:20	B3D0100	BC	3550B
Endosulfan 11	ND	D	2	0.354	2.00	ug/kg	04/10/23 11:32	04/10/23 22:20	B3D0100	BC	3550B
Endosulfan sulfate	ND	D	2	0.0940	2.00	ug/kg	04/10/23 11:32	04/10/23 22:20	B3D0100	BC	3550B
Heptachlor	ND	D	2	0.412	2.00	ug/kg	04/10/23 11:32	04/10/23 22:20	B3D0100	BC	3550B
Heptachlor epoxide	**1.05**	DIL, J	2	0.202	2.00	ug/kg	04/10/23 11:32	04/10/23 22:20	B3D0100	BC	3550B
Methoxychlor	ND	D	2	0.620	2.00	ug/kg	04/10/23 11:32	04/10/23 22:20	B3D0100	BC	3550B
Toxaphene	**366**	DIL	2	8.20	100	ug/kg	04/10/23 11:32	04/10/23 22:20	B3D0100	BC	3550B
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*80.7%*				*30-150*		04/10/23 11:32	*04/10/23 22:20*	B3D0100	*BC*	3550B
Surrogate: Tetrachloro-m-xylene	*75.2%*				*30-150*		04/10/23 11:32	*04/10/23 22:20*	B3D0100	*BC*	3550B

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Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56	

Analytical Results

Client ID: SB-2-D0.5
Lab ID: BED0011-20 (Soil) **Sampled: 04/04/23 10:05**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Lead	**45.3**		1	0.550	5.00	mg/kg	04/06/23 09:18	04/07/23 15:07	B3D0054	DT	3050B
Volatile Organic Compounds											
Method: EPA 8260B											
Acetone	ND		1	25.0	50.0	ug/kg	04/06/23 09:00	04/06/23 17:43	B3D0057	DK	5035A
Benzene	**0.587**	J	1	0.510	1.00	ug/kg	04/06/23 09:00	04/06/23 17:43	B3D0057	DK	5035A
Bromobenzene (Phenyl bromide)	ND		1	0.400	5.00	ug/kg	04/06/23 09:00	04/06/23 17:43	B3D0057	DK	5035A
Bromochloromethane	ND		1	0.500	5.00	ug/kg	04/06/23 09:00	04/06/23 17:43	B3D0057	DK	5035A
Bromodichloromethane	ND		1	0.870	5.00	ug/kg	04/06/23 09:00	04/06/23 17:43	B3D0057	DK	5035A
Bromoform (Tribromomethane)	ND		1	0.610	5.00	ug/kg	04/06/23 09:00	04/06/23 17:43	B3D0057	DK	5035A
Bromomethane (Methyl bromide)	ND		1	3.77	10.0	ug/kg	04/06/23 09:00	04/06/23 17:43	B3D0057	DK	5035A
2-Butanone (MEK)	ND		1	25.0	50.0	ug/kg	04/06/23 09:00	04/06/23 17:43	B3D0057	DK	5035A
n-Butylbenzene	ND		1	1.32	5.00	ug/kg	04/06/23 09:00	04/06/23 17:43	B3D0057	DK	5035A
sec-Butylbenzene	ND		1	0.340	5.00	ug/kg	04/06/23 09:00	04/06/23 17:43	B3D0057	DK	5035A
tert-Butylbenzene	ND		1	0.350	5.00	ug/kg	04/06/23 09:00	04/06/23 17:43	B3D0057	DK	5035A
Carbon Disulfide	ND		1	0.700	5.00	ug/kg	04/06/23 09:00	04/06/23 17:43	B3D0057	DK	5035A
Carbon tetrachloride	ND		1	0.460	5.00	ug/kg	04/06/23 09:00	04/06/23 17:43	B3D0057	DK	5035A
Chlorobenzene	ND		1	0.380	5.00	ug/kg	04/06/23 09:00	04/06/23 17:43	B3D0057	DK	5035A
Chloroethane	ND		1	1.77	5.00	ug/kg	04/06/23 09:00	04/06/23 17:43	B3D0057	DK	5035A
2-Chloroethyl vinyl ether	ND		1	1.53	5.00	ug/kg	04/06/23 09:00	04/06/23 17:43	B3D0057	DK	5035A
Chloroform (Trichloromethane)	ND		1	0.460	5.00	ug/kg	04/06/23 09:00	04/06/23 17:43	B3D0057	DK	5035A
Chloromethane (Methyl chloride)	ND		1	0.760	5.00	ug/kg	04/06/23 09:00	04/06/23 17:43	B3D0057	DK	5035A
2-Chlorotoluene	ND		1	5.00	10.0	ug/kg	04/06/23 09:00	04/06/23 17:43	B3D0057	DK	5035A
4-Chlorotoluene	ND		1	0.470	5.00	ug/kg	04/06/23 09:00	04/06/23 17:43	B3D0057	DK	5035A
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	4.32	10.0	ug/kg	04/06/23 09:00	04/06/23 17:43	B3D0057	DK	5035A
Dibromochloromethane	ND		1	0.320	5.00	ug/kg	04/06/23 09:00	04/06/23 17:43	B3D0057	DK	5035A
1,2-Dibromoethane (EDB)	ND		1	0.320	5.00	ug/kg	04/06/23 09:00	04/06/23 17:43	B3D0057	DK	5035A
Dibromomethane	ND		1	0.280	5.00	ug/kg	04/06/23 09:00	04/06/23 17:43	B3D0057	DK	5035A
1,2-Dichlorobenzene	ND		1	0.820	5.00	ug/kg	04/06/23 09:00	04/06/23 17:43	B3D0057	DK	5035A
1,3-Dichlorobenzene	ND		1	0.410	5.00	ug/kg	04/06/23 09:00	04/06/23 17:43	B3D0057	DK	5035A
1,4-Dichlorobenzene	ND		1	1.09	5.00	ug/kg	04/06/23 09:00	04/06/23 17:43	B3D0057	DK	5035A
Dichlorodifluoromethane	ND		1	1.02	5.00	ug/kg	04/06/23 09:00	04/06/23 17:43	B3D0057	DK	5035A
1,1-Dichloroethane	ND		1	1.48	5.00	ug/kg	04/06/23 09:00	04/06/23 17:43	B3D0057	DK	5035A

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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56	

Analytical Results

Client ID: SB-2-D0.5
Lab ID: BED0011-20 (Soil) **Sampled:** 04/04/23 10:05

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Volatile Organic Compounds (Continued)											
1,2-Dichloroethane (EDC)	ND		1	0.590	5.00	ug/kg	04/06/23 09:00	04/06/23 17:43	B3D0057	DK	5035A
1,1-Dichloroethene	ND		1	0.710	5.00	ug/kg	04/06/23 09:00	04/06/23 17:43	B3D0057	DK	5035A
cis-1,2-Dichloroethene	ND		1	0.670	5.00	ug/kg	04/06/23 09:00	04/06/23 17:43	B3D0057	DK	5035A
trans-1,2-Dichloroethene	ND		1	0.760	5.00	ug/kg	04/06/23 09:00	04/06/23 17:43	B3D0057	DK	5035A
1,2-Dichloropropane	ND		1	0.380	5.00	ug/kg	04/06/23 09:00	04/06/23 17:43	B3D0057	DK	5035A
1,3-Dichloropropane	ND		1	5.00	10.0	ug/kg	04/06/23 09:00	04/06/23 17:43	B3D0057	DK	5035A
2,2-Dichloropropane	ND		1	5.00	10.0	ug/kg	04/06/23 09:00	04/06/23 17:43	B3D0057	DK	5035A
1,1-Dichloropropene	ND		1	5.00	10.0	ug/kg	04/06/23 09:00	04/06/23 17:43	B3D0057	DK	5035A
cis-1,3-Dichloropropene	ND		1	0.360	5.00	ug/kg	04/06/23 09:00	04/06/23 17:43	B3D0057	DK	5035A
trans-1,3-Dichloropropene	ND		1	0.360	5.00	ug/kg	04/06/23 09:00	04/06/23 17:43	B3D0057	DK	5035A
Ethylbenzene	ND		1	0.340	1.00	ug/kg	04/06/23 09:00	04/06/23 17:43	B3D0057	DK	5035A
Hexachlorobutadiene	ND		1	0.860	5.00	ug/kg	04/06/23 09:00	04/06/23 17:43	B3D0057	DK	5035A
2-Hexanone	ND		1	25.0	50.0	ug/kg	04/06/23 09:00	04/06/23 17:43	B3D0057	DK	5035A
Iodomethane	ND		1	5.00	10.0	ug/kg	04/06/23 09:00	04/06/23 17:43	B3D0057	DK	5035A
Isopropylbenzene	ND		1	5.00	10.0	ug/kg	04/06/23 09:00	04/06/23 17:43	B3D0057	DK	5035A
p-Isopropyltoluene	ND		1	5.00	10.0	ug/kg	04/06/23 09:00	04/06/23 17:43	B3D0057	DK	5035A
4-Methyl-2-pentanone (MIBK)	ND		1	1.11	5.00	ug/kg	04/06/23 09:00	04/06/23 17:43	B3D0057	DK	5035A
Methyl-tert-butyl ether (MTBE)	ND		1	0.480	1.00	ug/kg	04/06/23 09:00	04/06/23 17:43	B3D0057	DK	5035A
Methylene chloride (DCM)	ND		1	2.00	50.0	ug/kg	04/06/23 09:00	04/06/23 17:43	B3D0057	DK	5035A
Naphthalene	ND		1	3.72	10.0	ug/kg	04/06/23 09:00	04/06/23 17:43	B3D0057	DK	5035A
n-Propylbenzene	ND		1	0.320	5.00	ug/kg	04/06/23 09:00	04/06/23 17:43	B3D0057	DK	5035A
Styrene	ND		1	0.380	5.00	ug/kg	04/06/23 09:00	04/06/23 17:43	B3D0057	DK	5035A
1,1,1,2-Tetrachloroethane	ND		1	0.370	5.00	ug/kg	04/06/23 09:00	04/06/23 17:43	B3D0057	DK	5035A
1,1,2,2-Tetrachloroethane	ND		1	0.780	5.00	ug/kg	04/06/23 09:00	04/06/23 17:43	B3D0057	DK	5035A
Tetrachloroethene	ND		1	0.430	5.00	ug/kg	04/06/23 09:00	04/06/23 17:43	B3D0057	DK	5035A
Toluene (Methyl benzene)	**2.04**		1	0.360	1.00	ug/kg	04/06/23 09:00	04/06/23 17:43	B3D0057	DK	5035A
1,2,3-Trichlorobenzene	ND		1	5.00	10.0	ug/kg	04/06/23 09:00	04/06/23 17:43	B3D0057	DK	5035A
1,2,4-Trichlorobenzene	ND		1	1.31	5.00	ug/kg	04/06/23 09:00	04/06/23 17:43	B3D0057	DK	5035A
1,1,1-Trichloroethane	ND		1	0.490	5.00	ug/kg	04/06/23 09:00	04/06/23 17:43	B3D0057	DK	5035A
1,1,2-Trichloroethane	ND		1	0.380	5.00	ug/kg	04/06/23 09:00	04/06/23 17:43	B3D0057	DK	5035A
Trichloroethene	ND		1	0.430	5.00	ug/kg	04/06/23 09:00	04/06/23 17:43	B3D0057	DK	5035A
Trichlorofluoromethane	ND		1	0.470	5.00	ug/kg	04/06/23 09:00	04/06/23 17:43	B3D0057	DK	5035A
1,2,3-Trichloropropane	ND		1	0.640	5.00	ug/kg	04/06/23 09:00	04/06/23 17:43	B3D0057	DK	5035A
1,2,4-Trimethylbenzene	ND		1	5.00	10.0	ug/kg	04/06/23 09:00	04/06/23 17:43	B3D0057	DK	5035A
1,3,5-Trimethylbenzene	ND		1	5.00	10.0	ug/kg	04/06/23 09:00	04/06/23 17:43	B3D0057	DK	5035A
Vinyl Acetate	ND		1	25.0	50.0	ug/kg	04/06/23 09:00	04/06/23 17:43	B3D0057	DK	5035A

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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56	

Analytical Results

Client ID: SB-2-D0.5

Lab ID: BED0011-20 (Soil) **Sampled: 04/04/23 10:05**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Volatile Organic Compounds (Continued)											
Vinyl chloride (Chloroethene)	ND		1	5.00	10.0	ug/kg	04/06/23 09:00	04/06/23 17:43	B3D0057	DK	5035A
o-Xylene	ND		1	0.360	1.00	ug/kg	04/06/23 09:00	04/06/23 17:43	B3D0057	DK	5035A
m,p-Xylenes	ND		1	2.00	20.0	ug/kg	04/06/23 09:00	04/06/23 17:43	B3D0057	DK	5035A
	Recovery				Acceptance Criteria						
Surrogate: Bromofluorobenzene	*93.1%*				*75-125*		04/06/23 09:00	*04/06/23 17:43*	B3D0057	*DK*	5035A
Surrogate: Dibromofluoromethane	*90.9%*				*75-125*		04/06/23 09:00	*04/06/23 17:43*	B3D0057	*DK*	5035A
Surrogate: Toluene-d8	*96.6%*				*75-125*		04/06/23 09:00	*04/06/23 17:43*	B3D0057	*DK*	5035A
TPH Gasoline Range											
Method: EPA 8015B TPH GRO											
TPH as Gasoline and Light HC. (C4-C12)	ND		1	0.116	0.200	mg/kg	04/06/23 10:47	04/06/23 11:54	B3D0051	BK	5035A
	Recovery				Acceptance Criteria						
Surrogate: Bromofluorobenzene	*104%*				*75-120*		04/06/23 10:47	*04/06/23 11:54*	B3D0051	*BK*	5035A
TPH Diesel Range											
Method: EPA 8015B TPH DRO/ORO											
TPH as Diesel (C13-C22)	ND		1	1.62	10.0	mg/kg	04/06/23 12:02	04/06/23 23:22	B3D0053	TTN	3550B
TPH as Heavy Hydrocarbons (C23-40)	ND		1	1.62	10.0	mg/kg	04/06/23 12:02	04/06/23 23:22	B3D0053	TTN	3550B
TPH Total as Diesel and Heavy HC (C13-C40)	ND		1	1.62	10.0	mg/kg	04/06/23 12:02	04/06/23 23:22	B3D0053	TTN	3550B
	Recovery				Acceptance Criteria						
Surrogate: Chlorobenzene	*107%*				*75-125*		04/06/23 12:02	*04/06/23 23:22*	B3D0053	*TTN*	3550B
Organochlorine Pesticides											
Method: EPA 8081A											
Aldrin	ND		1	0.0900	1.00	ug/kg	04/10/23 11:32	04/10/23 22:37	B3D0100	BC	3550B
alpha-Chlordane	**0.313**	J	1	0.121	1.00	ug/kg	04/10/23 11:32	04/10/23 22:37	B3D0100	BC	3550B
gamma-Chlordane	**0.173**	J	1	0.114	1.00	ug/kg	04/10/23 11:32	04/10/23 22:37	B3D0100	BC	3550B
Chlordane (Total)	ND		1	1.00	2.00	ug/kg	04/10/23 11:32	04/10/23 22:37	B3D0100	BC	3550B
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	ND		1	0.0620	1.00	ug/kg	04/10/23 11:32	04/10/23 22:37	B3D0100	BC	3550B

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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56	

Analytical Results

Client ID: SB-2-D0.5

Lab ID: BED0011-20 (Soil) **Sampled: 04/04/23 10:05**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Organochlorine Pesticides (Continued)											
alpha-Hexachlorocyclohexane (Alpha-BHC)	ND		1	0.0710	1.00	ug/kg	04/10/23 11:32	04/10/23 22:37	B3D0100	BC	3550B
beta-Hexachlorocyclohexane (Betta-BHC)	ND		1	0.217	1.00	ug/kg	04/10/23 11:32	04/10/23 22:37	B3D0100	BC	3550B
delta-Hexachlorocyclohexane (Delta-BHC)	ND		1	0.0880	1.00	ug/kg	04/10/23 11:32	04/10/23 22:37	B3D0100	BC	3550B
4,4'-DDD (DDD)	**0.296**	J	1	0.0980	1.00	ug/kg	04/10/23 11:32	04/10/23 22:37	B3D0100	BC	3550B
4,4'-DDE (DDE)	**3.36**		1	0.0930	1.00	ug/kg	04/10/23 11:32	04/10/23 22:37	B3D0100	BC	3550B
4,4'-DDT (DDT)	**2.52**		1	0.235	1.00	ug/kg	04/10/23 11:32	04/10/23 22:37	B3D0100	BC	3550B
Dieldrin	**0.134**	J	1	0.0950	1.00	ug/kg	04/10/23 11:32	04/10/23 22:37	B3D0100	BC	3550B
Endrin	ND		1	0.106	1.00	ug/kg	04/10/23 11:32	04/10/23 22:37	B3D0100	BC	3550B
Endrin aldehyde	ND		1	0.117	1.00	ug/kg	04/10/23 11:32	04/10/23 22:37	B3D0100	BC	3550B
Endrin ketone	ND		1	0.122	1.00	ug/kg	04/10/23 11:32	04/10/23 22:37	B3D0100	BC	3550B
Endosulfan 1	ND		1	0.115	1.00	ug/kg	04/10/23 11:32	04/10/23 22:37	B3D0100	BC	3550B
Endosulfan 11	ND		1	0.177	1.00	ug/kg	04/10/23 11:32	04/10/23 22:37	B3D0100	BC	3550B
Endosulfan sulfate	ND		1	0.0470	1.00	ug/kg	04/10/23 11:32	04/10/23 22:37	B3D0100	BC	3550B
Heptachlor	ND		1	0.206	1.00	ug/kg	04/10/23 11:32	04/10/23 22:37	B3D0100	BC	3550B
Heptachlor epoxide	ND		1	0.101	1.00	ug/kg	04/10/23 11:32	04/10/23 22:37	B3D0100	BC	3550B
Methoxychlor	ND		1	0.310	1.00	ug/kg	04/10/23 11:32	04/10/23 22:37	B3D0100	BC	3550B
Toxaphene	ND		1	4.10	50.0	ug/kg	04/10/23 11:32	04/10/23 22:37	B3D0100	BC	3550B
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*74.7%*				*30-150*		04/10/23 11:32	*04/10/23 22:37*	B3D0100	*BC*	3550B
Surrogate: Tetrachloro-m-xylene	*69.0%*				*30-150*		04/10/23 11:32	*04/10/23 22:37*	B3D0100	*BC*	3550B

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100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56	

Analytical Results

Client ID: SB-37-D0.5
Lab ID: BED0011-23 (Soil) **Sampled: 04/04/23 11:20**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Lead	**8.25**		1	0.550	5.00	mg/kg	04/06/23 09:18	04/07/23 15:10	B3D0054	DT	3050B
Volatile Organic Compounds											
Method: EPA 8260B											
Acetone	ND		1	25.0	50.0	ug/kg	04/06/23 09:00	04/06/23 18:15	B3D0057	DK	5035A
Benzene	**0.510**	J	1	0.510	1.00	ug/kg	04/06/23 09:00	04/06/23 18:15	B3D0057	DK	5035A
Bromobenzene (Phenyl bromide)	ND		1	0.400	5.00	ug/kg	04/06/23 09:00	04/06/23 18:15	B3D0057	DK	5035A
Bromochloromethane	ND		1	0.500	5.00	ug/kg	04/06/23 09:00	04/06/23 18:15	B3D0057	DK	5035A
Bromodichloromethane	ND		1	0.870	5.00	ug/kg	04/06/23 09:00	04/06/23 18:15	B3D0057	DK	5035A
Bromoform (Tribromomethane)	ND		1	0.610	5.00	ug/kg	04/06/23 09:00	04/06/23 18:15	B3D0057	DK	5035A
Bromomethane (Methyl bromide)	ND		1	3.77	10.0	ug/kg	04/06/23 09:00	04/06/23 18:15	B3D0057	DK	5035A
2-Butanone (MEK)	ND		1	25.0	50.0	ug/kg	04/06/23 09:00	04/06/23 18:15	B3D0057	DK	5035A
n-Butylbenzene	ND		1	1.32	5.00	ug/kg	04/06/23 09:00	04/06/23 18:15	B3D0057	DK	5035A
sec-Butylbenzene	ND		1	0.340	5.00	ug/kg	04/06/23 09:00	04/06/23 18:15	B3D0057	DK	5035A
tert-Butylbenzene	ND		1	0.350	5.00	ug/kg	04/06/23 09:00	04/06/23 18:15	B3D0057	DK	5035A
Carbon Disulfide	ND		1	0.700	5.00	ug/kg	04/06/23 09:00	04/06/23 18:15	B3D0057	DK	5035A
Carbon tetrachloride	ND		1	0.460	5.00	ug/kg	04/06/23 09:00	04/06/23 18:15	B3D0057	DK	5035A
Chlorobenzene	ND		1	0.380	5.00	ug/kg	04/06/23 09:00	04/06/23 18:15	B3D0057	DK	5035A
Chloroethane	ND		1	1.77	5.00	ug/kg	04/06/23 09:00	04/06/23 18:15	B3D0057	DK	5035A
2-Chloroethyl vinyl ether	ND		1	1.53	5.00	ug/kg	04/06/23 09:00	04/06/23 18:15	B3D0057	DK	5035A
Chloroform (Trichloromethane)	ND		1	0.460	5.00	ug/kg	04/06/23 09:00	04/06/23 18:15	B3D0057	DK	5035A
Chloromethane (Methyl chloride)	ND		1	0.760	5.00	ug/kg	04/06/23 09:00	04/06/23 18:15	B3D0057	DK	5035A
2-Chlorotoluene	ND		1	5.00	10.0	ug/kg	04/06/23 09:00	04/06/23 18:15	B3D0057	DK	5035A
4-Chlorotoluene	ND		1	0.470	5.00	ug/kg	04/06/23 09:00	04/06/23 18:15	B3D0057	DK	5035A
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	4.32	10.0	ug/kg	04/06/23 09:00	04/06/23 18:15	B3D0057	DK	5035A
Dibromochloromethane	ND		1	0.320	5.00	ug/kg	04/06/23 09:00	04/06/23 18:15	B3D0057	DK	5035A
1,2-Dibromoethane (EDB)	ND		1	0.320	5.00	ug/kg	04/06/23 09:00	04/06/23 18:15	B3D0057	DK	5035A
Dibromomethane	ND		1	0.280	5.00	ug/kg	04/06/23 09:00	04/06/23 18:15	B3D0057	DK	5035A
1,2-Dichlorobenzene	ND		1	0.820	5.00	ug/kg	04/06/23 09:00	04/06/23 18:15	B3D0057	DK	5035A
1,3-Dichlorobenzene	ND		1	0.410	5.00	ug/kg	04/06/23 09:00	04/06/23 18:15	B3D0057	DK	5035A
1,4-Dichlorobenzene	ND		1	1.09	5.00	ug/kg	04/06/23 09:00	04/06/23 18:15	B3D0057	DK	5035A
Dichlorodifluoromethane	ND		1	1.02	5.00	ug/kg	04/06/23 09:00	04/06/23 18:15	B3D0057	DK	5035A
1,1-Dichloroethane	ND		1	1.48	5.00	ug/kg	04/06/23 09:00	04/06/23 18:15	B3D0057	DK	5035A

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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56	

Analytical Results

Client ID: SB-37-D0.5
Lab ID: BED0011-23 (Soil) **Sampled:** 04/04/23 11:20

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Volatile Organic Compounds (Continued)											
1,2-Dichloroethane (EDC)	ND		1	0.590	5.00	ug/kg	04/06/23 09:00	04/06/23 18:15	B3D0057	DK	5035A
1,1-Dichloroethene	ND		1	0.710	5.00	ug/kg	04/06/23 09:00	04/06/23 18:15	B3D0057	DK	5035A
cis-1,2-Dichloroethene	ND		1	0.670	5.00	ug/kg	04/06/23 09:00	04/06/23 18:15	B3D0057	DK	5035A
trans-1,2-Dichloroethene	ND		1	0.760	5.00	ug/kg	04/06/23 09:00	04/06/23 18:15	B3D0057	DK	5035A
1,2-Dichloropropane	ND		1	0.380	5.00	ug/kg	04/06/23 09:00	04/06/23 18:15	B3D0057	DK	5035A
1,3-Dichloropropane	ND		1	5.00	10.0	ug/kg	04/06/23 09:00	04/06/23 18:15	B3D0057	DK	5035A
2,2-Dichloropropane	ND		1	5.00	10.0	ug/kg	04/06/23 09:00	04/06/23 18:15	B3D0057	DK	5035A
1,1-Dichloropropene	ND		1	5.00	10.0	ug/kg	04/06/23 09:00	04/06/23 18:15	B3D0057	DK	5035A
cis-1,3-Dichloropropene	ND		1	0.360	5.00	ug/kg	04/06/23 09:00	04/06/23 18:15	B3D0057	DK	5035A
trans-1,3-Dichloropropene	ND		1	0.360	5.00	ug/kg	04/06/23 09:00	04/06/23 18:15	B3D0057	DK	5035A
Ethylbenzene	ND		1	0.340	1.00	ug/kg	04/06/23 09:00	04/06/23 18:15	B3D0057	DK	5035A
Hexachlorobutadiene	ND		1	0.860	5.00	ug/kg	04/06/23 09:00	04/06/23 18:15	B3D0057	DK	5035A
2-Hexanone	ND		1	25.0	50.0	ug/kg	04/06/23 09:00	04/06/23 18:15	B3D0057	DK	5035A
Iodomethane	ND		1	5.00	10.0	ug/kg	04/06/23 09:00	04/06/23 18:15	B3D0057	DK	5035A
Isopropylbenzene	ND		1	5.00	10.0	ug/kg	04/06/23 09:00	04/06/23 18:15	B3D0057	DK	5035A
p-Isopropyltoluene	ND		1	5.00	10.0	ug/kg	04/06/23 09:00	04/06/23 18:15	B3D0057	DK	5035A
4-Methyl-2-pentanone (MIBK)	ND		1	1.11	5.00	ug/kg	04/06/23 09:00	04/06/23 18:15	B3D0057	DK	5035A
Methyl-tert-butyl ether (MTBE)	ND		1	0.480	1.00	ug/kg	04/06/23 09:00	04/06/23 18:15	B3D0057	DK	5035A
Methylene chloride (DCM)	ND		1	2.00	50.0	ug/kg	04/06/23 09:00	04/06/23 18:15	B3D0057	DK	5035A
Naphthalene	ND		1	3.72	10.0	ug/kg	04/06/23 09:00	04/06/23 18:15	B3D0057	DK	5035A
n-Propylbenzene	ND		1	0.320	5.00	ug/kg	04/06/23 09:00	04/06/23 18:15	B3D0057	DK	5035A
Styrene	ND		1	0.380	5.00	ug/kg	04/06/23 09:00	04/06/23 18:15	B3D0057	DK	5035A
1,1,1,2-Tetrachloroethane	ND		1	0.370	5.00	ug/kg	04/06/23 09:00	04/06/23 18:15	B3D0057	DK	5035A
1,1,2,2-Tetrachloroethane	ND		1	0.780	5.00	ug/kg	04/06/23 09:00	04/06/23 18:15	B3D0057	DK	5035A
Tetrachloroethene	ND		1	0.430	5.00	ug/kg	04/06/23 09:00	04/06/23 18:15	B3D0057	DK	5035A
Toluene (Methyl benzene)	**2.26**		1	0.360	1.00	ug/kg	04/06/23 09:00	04/06/23 18:15	B3D0057	DK	5035A
1,2,3-Trichlorobenzene	ND		1	5.00	10.0	ug/kg	04/06/23 09:00	04/06/23 18:15	B3D0057	DK	5035A
1,2,4-Trichlorobenzene	ND		1	1.31	5.00	ug/kg	04/06/23 09:00	04/06/23 18:15	B3D0057	DK	5035A
1,1,1-Trichloroethane	ND		1	0.490	5.00	ug/kg	04/06/23 09:00	04/06/23 18:15	B3D0057	DK	5035A
1,1,2-Trichloroethane	ND		1	0.380	5.00	ug/kg	04/06/23 09:00	04/06/23 18:15	B3D0057	DK	5035A
Trichloroethene	ND		1	0.430	5.00	ug/kg	04/06/23 09:00	04/06/23 18:15	B3D0057	DK	5035A
Trichlorofluoromethane	ND		1	0.470	5.00	ug/kg	04/06/23 09:00	04/06/23 18:15	B3D0057	DK	5035A
1,2,3-Trichloropropane	ND		1	0.640	5.00	ug/kg	04/06/23 09:00	04/06/23 18:15	B3D0057	DK	5035A
1,2,4-Trimethylbenzene	ND		1	5.00	10.0	ug/kg	04/06/23 09:00	04/06/23 18:15	B3D0057	DK	5035A
1,3,5-Trimethylbenzene	ND		1	5.00	10.0	ug/kg	04/06/23 09:00	04/06/23 18:15	B3D0057	DK	5035A
Vinyl Acetate	ND		1	25.0	50.0	ug/kg	04/06/23 09:00	04/06/23 18:15	B3D0057	DK	5035A

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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56	

Analytical Results

Client ID: SB-37-D0.5
Lab ID: BED0011-23 (Soil) **Sampled: 04/04/23 11:20**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Volatile Organic Compounds (Continued)											
Vinyl chloride (Chloroethene)	ND		1	5.00	10.0	ug/kg	04/06/23 09:00	04/06/23 18:15	B3D0057	DK	5035A
o-Xylene	ND		1	0.360	1.00	ug/kg	04/06/23 09:00	04/06/23 18:15	B3D0057	DK	5035A
m,p-Xylenes	ND		1	2.00	20.0	ug/kg	04/06/23 09:00	04/06/23 18:15	B3D0057	DK	5035A
	Recovery				Acceptance Criteria						
Surrogate: Bromofluorobenzene	*95.9%*				*75-125*		04/06/23 09:00	*04/06/23 18:15*	B3D0057	*DK*	5035A
Surrogate: Dibromofluoromethane	*90.4%*				*75-125*		04/06/23 09:00	*04/06/23 18:15*	B3D0057	*DK*	5035A
Surrogate: Toluene-d8	*98.0%*				*75-125*		04/06/23 09:00	*04/06/23 18:15*	B3D0057	*DK*	5035A
TPH Gasoline Range											
Method: EPA 8015B TPH GRO											
TPH as Gasoline and Light HC. (C4-C12)	ND		1	0.116	0.200	mg/kg	04/06/23 10:47	04/06/23 12:27	B3D0051	BK	5035A
	Recovery				Acceptance Criteria						
Surrogate: Bromofluorobenzene	*111%*				*75-120*		04/06/23 10:47	*04/06/23 12:27*	B3D0051	*BK*	5035A
TPH Diesel Range											
Method: EPA 8015B TPH DRO/ORO											
TPH as Diesel (C13-C22)	**27.5**		1	1.62	10.0	mg/kg	04/06/23 12:02	04/06/23 23:58	B3D0053	TTN	3550B
TPH as Heavy Hydrocarbons (C23-40)	ND		1	1.62	10.0	mg/kg	04/06/23 12:02	04/06/23 23:58	B3D0053	TTN	3550B
TPH Total as Diesel and Heavy HC (C13-C40)	**27.5**		1	1.62	10.0	mg/kg	04/06/23 12:02	04/06/23 23:58	B3D0053	TTN	3550B
	Recovery				Acceptance Criteria						
Surrogate: Chlorobenzene	*108%*				*75-125*		04/06/23 12:02	*04/06/23 23:58*	B3D0053	*TTN*	3550B
Organochlorine Pesticides											
Method: EPA 8081A											
Aldrin	ND		1	0.0900	1.00	ug/kg	04/10/23 11:32	04/10/23 22:54	B3D0100	BC	3550B
alpha-Chlordane	**3.84**		1	0.121	1.00	ug/kg	04/10/23 11:32	04/10/23 22:54	B3D0100	BC	3550B
gamma-Chlordane	**2.87**		1	0.114	1.00	ug/kg	04/10/23 11:32	04/10/23 22:54	B3D0100	BC	3550B
Chlordane (Total)	**6.71**		1	1.00	2.00	ug/kg	04/10/23 11:32	04/10/23 22:54	B3D0100	BC	3550B
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	ND		1	0.0620	1.00	ug/kg	04/10/23 11:32	04/10/23 22:54	B3D0100	BC	3550B

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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56	

Analytical Results

Client ID: SB-37-D0.5

Lab ID: BED0011-23 (Soil) **Sampled: 04/04/23 11:20**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Organochlorine Pesticides (Continued)											
alpha-Hexachlorocyclohexane (Alpha-BHC)	ND		1	0.0710	1.00	ug/kg	04/10/23 11:32	04/10/23 22:54	B3D0100	BC	3550B
beta-Hexachlorocyclohexane (Betta-BHC)	ND		1	0.217	1.00	ug/kg	04/10/23 11:32	04/10/23 22:54	B3D0100	BC	3550B
delta-Hexachlorocyclohexane (Delta-BHC)	ND		1	0.0880	1.00	ug/kg	04/10/23 11:32	04/10/23 22:54	B3D0100	BC	3550B
4,4'-DDD (DDD)	**0.283**	J	1	0.0980	1.00	ug/kg	04/10/23 11:32	04/10/23 22:54	B3D0100	BC	3550B
4,4'-DDE (DDE)	**1.17**		1	0.0930	1.00	ug/kg	04/10/23 11:32	04/10/23 22:54	B3D0100	BC	3550B
4,4'-DDT (DDT)	**1.91**		1	0.235	1.00	ug/kg	04/10/23 11:32	04/10/23 22:54	B3D0100	BC	3550B
Dieldrin	**0.113**	J	1	0.0950	1.00	ug/kg	04/10/23 11:32	04/10/23 22:54	B3D0100	BC	3550B
Endrin	ND		1	0.106	1.00	ug/kg	04/10/23 11:32	04/10/23 22:54	B3D0100	BC	3550B
Endrin aldehyde	ND		1	0.117	1.00	ug/kg	04/10/23 11:32	04/10/23 22:54	B3D0100	BC	3550B
Endrin ketone	ND		1	0.122	1.00	ug/kg	04/10/23 11:32	04/10/23 22:54	B3D0100	BC	3550B
Endosulfan 1	ND		1	0.115	1.00	ug/kg	04/10/23 11:32	04/10/23 22:54	B3D0100	BC	3550B
Endosulfan 11	ND		1	0.177	1.00	ug/kg	04/10/23 11:32	04/10/23 22:54	B3D0100	BC	3550B
Endosulfan sulfate	ND		1	0.0470	1.00	ug/kg	04/10/23 11:32	04/10/23 22:54	B3D0100	BC	3550B
Heptachlor	ND		1	0.206	1.00	ug/kg	04/10/23 11:32	04/10/23 22:54	B3D0100	BC	3550B
Heptachlor epoxide	ND		1	0.101	1.00	ug/kg	04/10/23 11:32	04/10/23 22:54	B3D0100	BC	3550B
Methoxychlor	ND		1	0.310	1.00	ug/kg	04/10/23 11:32	04/10/23 22:54	B3D0100	BC	3550B
Toxaphene	ND		1	4.10	50.0	ug/kg	04/10/23 11:32	04/10/23 22:54	B3D0100	BC	3550B
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*73.8%*				*30-150*		04/10/23 11:32	*04/10/23 22:54*	B3D0100	*BC*	3550B
Surrogate: Tetrachloro-m-xylene	*69.3%*				*30-150*		04/10/23 11:32	*04/10/23 22:54*	B3D0100	*BC*	3550B

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100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56	

Analytical Results

Client ID: SB-36-D0.5
Lab ID: BED0011-26 (Soil) **Sampled: 04/04/23 11:52**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Lead	**5.37**		1	0.550	5.00	mg/kg	04/06/23 09:18	04/07/23 15:12	B3D0054	DT	3050B
Volatile Organic Compounds											
Method: EPA 8260B											
Acetone	ND		1	25.0	50.0	ug/kg	04/06/23 09:00	04/06/23 18:47	B3D0057	DK	5035A
Benzene	**0.933**	J	1	0.510	1.00	ug/kg	04/06/23 09:00	04/06/23 18:47	B3D0057	DK	5035A
Bromobenzene (Phenyl bromide)	ND		1	0.400	5.00	ug/kg	04/06/23 09:00	04/06/23 18:47	B3D0057	DK	5035A
Bromochloromethane	ND		1	0.500	5.00	ug/kg	04/06/23 09:00	04/06/23 18:47	B3D0057	DK	5035A
Bromodichloromethane	ND		1	0.870	5.00	ug/kg	04/06/23 09:00	04/06/23 18:47	B3D0057	DK	5035A
Bromoform (Tribromomethane)	ND		1	0.610	5.00	ug/kg	04/06/23 09:00	04/06/23 18:47	B3D0057	DK	5035A
Bromomethane (Methyl bromide)	ND		1	3.77	10.0	ug/kg	04/06/23 09:00	04/06/23 18:47	B3D0057	DK	5035A
2-Butanone (MEK)	ND		1	25.0	50.0	ug/kg	04/06/23 09:00	04/06/23 18:47	B3D0057	DK	5035A
n-Butylbenzene	ND		1	1.32	5.00	ug/kg	04/06/23 09:00	04/06/23 18:47	B3D0057	DK	5035A
sec-Butylbenzene	ND		1	0.340	5.00	ug/kg	04/06/23 09:00	04/06/23 18:47	B3D0057	DK	5035A
tert-Butylbenzene	ND		1	0.350	5.00	ug/kg	04/06/23 09:00	04/06/23 18:47	B3D0057	DK	5035A
Carbon Disulfide	ND		1	0.700	5.00	ug/kg	04/06/23 09:00	04/06/23 18:47	B3D0057	DK	5035A
Carbon tetrachloride	ND		1	0.460	5.00	ug/kg	04/06/23 09:00	04/06/23 18:47	B3D0057	DK	5035A
Chlorobenzene	ND		1	0.380	5.00	ug/kg	04/06/23 09:00	04/06/23 18:47	B3D0057	DK	5035A
Chloroethane	ND		1	1.77	5.00	ug/kg	04/06/23 09:00	04/06/23 18:47	B3D0057	DK	5035A
2-Chloroethyl vinyl ether	ND		1	1.53	5.00	ug/kg	04/06/23 09:00	04/06/23 18:47	B3D0057	DK	5035A
Chloroform (Trichloromethane)	ND		1	0.460	5.00	ug/kg	04/06/23 09:00	04/06/23 18:47	B3D0057	DK	5035A
Chloromethane (Methyl chloride)	ND		1	0.760	5.00	ug/kg	04/06/23 09:00	04/06/23 18:47	B3D0057	DK	5035A
2-Chlorotoluene	ND		1	5.00	10.0	ug/kg	04/06/23 09:00	04/06/23 18:47	B3D0057	DK	5035A
4-Chlorotoluene	ND		1	0.470	5.00	ug/kg	04/06/23 09:00	04/06/23 18:47	B3D0057	DK	5035A
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	4.32	10.0	ug/kg	04/06/23 09:00	04/06/23 18:47	B3D0057	DK	5035A
Dibromochloromethane	ND		1	0.320	5.00	ug/kg	04/06/23 09:00	04/06/23 18:47	B3D0057	DK	5035A
1,2-Dibromoethane (EDB)	ND		1	0.320	5.00	ug/kg	04/06/23 09:00	04/06/23 18:47	B3D0057	DK	5035A
Dibromomethane	ND		1	0.280	5.00	ug/kg	04/06/23 09:00	04/06/23 18:47	B3D0057	DK	5035A
1,2-Dichlorobenzene	ND		1	0.820	5.00	ug/kg	04/06/23 09:00	04/06/23 18:47	B3D0057	DK	5035A
1,3-Dichlorobenzene	ND		1	0.410	5.00	ug/kg	04/06/23 09:00	04/06/23 18:47	B3D0057	DK	5035A
1,4-Dichlorobenzene	ND		1	1.09	5.00	ug/kg	04/06/23 09:00	04/06/23 18:47	B3D0057	DK	5035A
Dichlorodifluoromethane	ND		1	1.02	5.00	ug/kg	04/06/23 09:00	04/06/23 18:47	B3D0057	DK	5035A
1,1-Dichloroethane	ND		1	1.48	5.00	ug/kg	04/06/23 09:00	04/06/23 18:47	B3D0057	DK	5035A

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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56	

Analytical Results

Client ID: SB-36-D0.5
Lab ID: BED0011-26 (Soil) **Sampled:** 04/04/23 11:52

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Volatile Organic Compounds (Continued)											
1,2-Dichloroethane (EDC)	ND		1	0.590	5.00	ug/kg	04/06/23 09:00	04/06/23 18:47	B3D0057	DK	5035A
1,1-Dichloroethene	ND		1	0.710	5.00	ug/kg	04/06/23 09:00	04/06/23 18:47	B3D0057	DK	5035A
cis-1,2-Dichloroethene	ND		1	0.670	5.00	ug/kg	04/06/23 09:00	04/06/23 18:47	B3D0057	DK	5035A
trans-1,2-Dichloroethene	ND		1	0.760	5.00	ug/kg	04/06/23 09:00	04/06/23 18:47	B3D0057	DK	5035A
1,2-Dichloropropane	ND		1	0.380	5.00	ug/kg	04/06/23 09:00	04/06/23 18:47	B3D0057	DK	5035A
1,3-Dichloropropane	ND		1	5.00	10.0	ug/kg	04/06/23 09:00	04/06/23 18:47	B3D0057	DK	5035A
2,2-Dichloropropane	ND		1	5.00	10.0	ug/kg	04/06/23 09:00	04/06/23 18:47	B3D0057	DK	5035A
1,1-Dichloropropene	ND		1	5.00	10.0	ug/kg	04/06/23 09:00	04/06/23 18:47	B3D0057	DK	5035A
cis-1,3-Dichloropropene	ND		1	0.360	5.00	ug/kg	04/06/23 09:00	04/06/23 18:47	B3D0057	DK	5035A
trans-1,3-Dichloropropene	ND		1	0.360	5.00	ug/kg	04/06/23 09:00	04/06/23 18:47	B3D0057	DK	5035A
Ethylbenzene	ND		1	0.340	1.00	ug/kg	04/06/23 09:00	04/06/23 18:47	B3D0057	DK	5035A
Hexachlorobutadiene	ND		1	0.860	5.00	ug/kg	04/06/23 09:00	04/06/23 18:47	B3D0057	DK	5035A
2-Hexanone	ND		1	25.0	50.0	ug/kg	04/06/23 09:00	04/06/23 18:47	B3D0057	DK	5035A
Iodomethane	ND		1	5.00	10.0	ug/kg	04/06/23 09:00	04/06/23 18:47	B3D0057	DK	5035A
Isopropylbenzene	ND		1	5.00	10.0	ug/kg	04/06/23 09:00	04/06/23 18:47	B3D0057	DK	5035A
p-Isopropyltoluene	ND		1	5.00	10.0	ug/kg	04/06/23 09:00	04/06/23 18:47	B3D0057	DK	5035A
4-Methyl-2-pentanone (MIBK)	ND		1	1.11	5.00	ug/kg	04/06/23 09:00	04/06/23 18:47	B3D0057	DK	5035A
Methyl-tert-butyl ether (MTBE)	ND		1	0.480	1.00	ug/kg	04/06/23 09:00	04/06/23 18:47	B3D0057	DK	5035A
Methylene chloride (DCM)	ND		1	2.00	50.0	ug/kg	04/06/23 09:00	04/06/23 18:47	B3D0057	DK	5035A
Naphthalene	ND		1	3.72	10.0	ug/kg	04/06/23 09:00	04/06/23 18:47	B3D0057	DK	5035A
n-Propylbenzene	ND		1	0.320	5.00	ug/kg	04/06/23 09:00	04/06/23 18:47	B3D0057	DK	5035A
Styrene	ND		1	0.380	5.00	ug/kg	04/06/23 09:00	04/06/23 18:47	B3D0057	DK	5035A
1,1,1,2-Tetrachloroethane	ND		1	0.370	5.00	ug/kg	04/06/23 09:00	04/06/23 18:47	B3D0057	DK	5035A
1,1,2,2-Tetrachloroethane	ND		1	0.780	5.00	ug/kg	04/06/23 09:00	04/06/23 18:47	B3D0057	DK	5035A
Tetrachloroethene	ND		1	0.430	5.00	ug/kg	04/06/23 09:00	04/06/23 18:47	B3D0057	DK	5035A
Toluene (Methyl benzene)	**2.20**		1	0.360	1.00	ug/kg	04/06/23 09:00	04/06/23 18:47	B3D0057	DK	5035A
1,2,3-Trichlorobenzene	ND		1	5.00	10.0	ug/kg	04/06/23 09:00	04/06/23 18:47	B3D0057	DK	5035A
1,2,4-Trichlorobenzene	ND		1	1.31	5.00	ug/kg	04/06/23 09:00	04/06/23 18:47	B3D0057	DK	5035A
1,1,1-Trichloroethane	ND		1	0.490	5.00	ug/kg	04/06/23 09:00	04/06/23 18:47	B3D0057	DK	5035A
1,1,2-Trichloroethane	ND		1	0.380	5.00	ug/kg	04/06/23 09:00	04/06/23 18:47	B3D0057	DK	5035A
Trichloroethene	ND		1	0.430	5.00	ug/kg	04/06/23 09:00	04/06/23 18:47	B3D0057	DK	5035A
Trichlorofluoromethane	ND		1	0.470	5.00	ug/kg	04/06/23 09:00	04/06/23 18:47	B3D0057	DK	5035A
1,2,3-Trichloropropane	ND		1	0.640	5.00	ug/kg	04/06/23 09:00	04/06/23 18:47	B3D0057	DK	5035A
1,2,4-Trimethylbenzene	ND		1	5.00	10.0	ug/kg	04/06/23 09:00	04/06/23 18:47	B3D0057	DK	5035A
1,3,5-Trimethylbenzene	ND		1	5.00	10.0	ug/kg	04/06/23 09:00	04/06/23 18:47	B3D0057	DK	5035A
Vinyl Acetate	ND		1	25.0	50.0	ug/kg	04/06/23 09:00	04/06/23 18:47	B3D0057	DK	5035A

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100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56	

Analytical Results

Client ID: SB-36-D0.5
Lab ID: BED0011-26 (Soil) **Sampled: 04/04/23 11:52**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Volatile Organic Compounds (Continued)											
Vinyl chloride (Chloroethene)	ND		1	5.00	10.0	ug/kg	04/06/23 09:00	04/06/23 18:47	B3D0057	DK	5035A
o-Xylene	ND		1	0.360	1.00	ug/kg	04/06/23 09:00	04/06/23 18:47	B3D0057	DK	5035A
m,p-Xylenes	ND		1	2.00	20.0	ug/kg	04/06/23 09:00	04/06/23 18:47	B3D0057	DK	5035A
	Recovery				Acceptance Criteria						
Surrogate: Bromofluorobenzene	*92.8%*				*75-125*		04/06/23 09:00	*04/06/23 18:47*	B3D0057	*DK*	5035A
Surrogate: Dibromofluoromethane	*89.9%*				*75-125*		04/06/23 09:00	*04/06/23 18:47*	B3D0057	*DK*	5035A
Surrogate: Toluene-d8	*96.8%*				*75-125*		04/06/23 09:00	*04/06/23 18:47*	B3D0057	*DK*	5035A
TPH Gasoline Range											
Method: EPA 8015B TPH GRO											
TPH as Gasoline and Light HC. (C4-C12)	**0.210**		1	0.116	0.200	mg/kg	04/06/23 10:47	04/06/23 13:00	B3D0051	BK	5035A
	Recovery				Acceptance Criteria						
Surrogate: Bromofluorobenzene	*111%*				*75-120*		04/06/23 10:47	*04/06/23 13:00*	B3D0051	*BK*	5035A
TPH Diesel Range											
Method: EPA 8015B TPH DRO/ORO											
TPH as Diesel (C13-C22)	ND		1	1.62	10.0	mg/kg	04/06/23 12:02	04/07/23 00:35	B3D0053	TTN	3550B
TPH as Heavy Hydrocarbons (C23-40)	ND		1	1.62	10.0	mg/kg	04/06/23 12:02	04/07/23 00:35	B3D0053	TTN	3550B
TPH Total as Diesel and Heavy HC (C13-C40)	ND		1	1.62	10.0	mg/kg	04/06/23 12:02	04/07/23 00:35	B3D0053	TTN	3550B
	Recovery				Acceptance Criteria						
Surrogate: Chlorobenzene	*103%*				*75-125*		04/06/23 12:02	*04/07/23 00:35*	B3D0053	*TTN*	3550B
Organochlorine Pesticides											
Method: EPA 8081A											
Aldrin	ND		1	0.0900	1.00	ug/kg	04/10/23 11:32	04/10/23 23:11	B3D0100	BC	3550B
alpha-Chlordane	**3.75**		1	0.121	1.00	ug/kg	04/10/23 11:32	04/10/23 23:11	B3D0100	BC	3550B
gamma-Chlordane	**3.49**		1	0.114	1.00	ug/kg	04/10/23 11:32	04/10/23 23:11	B3D0100	BC	3550B
Chlordane (Total)	**7.24**		1	1.00	2.00	ug/kg	04/10/23 11:32	04/10/23 23:11	B3D0100	BC	3550B
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	ND		1	0.0620	1.00	ug/kg	04/10/23 11:32	04/10/23 23:11	B3D0100	BC	3550B

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100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56	

Analytical Results

Client ID: SB-36-D0.5

Lab ID: BED0011-26 (Soil) **Sampled: 04/04/23 11:52**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Organochlorine Pesticides (Continued)											
alpha-Hexachlorocyclohexane (Alpha-BHC)	ND		1	0.0710	1.00	ug/kg	04/10/23 11:32	04/10/23 23:11	B3D0100	BC	3550B
beta-Hexachlorocyclohexane (Betta-BHC)	ND		1	0.217	1.00	ug/kg	04/10/23 11:32	04/10/23 23:11	B3D0100	BC	3550B
delta-Hexachlorocyclohexane (Delta-BHC)	ND		1	0.0880	1.00	ug/kg	04/10/23 11:32	04/10/23 23:11	B3D0100	BC	3550B
4,4'-DDD (DDD)	**0.354**	J	1	0.0980	1.00	ug/kg	04/10/23 11:32	04/10/23 23:11	B3D0100	BC	3550B
4,4'-DDE (DDE)	**0.788**	J	1	0.0930	1.00	ug/kg	04/10/23 11:32	04/10/23 23:11	B3D0100	BC	3550B
4,4'-DDT (DDT)	**2.58**		1	0.235	1.00	ug/kg	04/10/23 11:32	04/10/23 23:11	B3D0100	BC	3550B
Dieldrin	ND		1	0.0950	1.00	ug/kg	04/10/23 11:32	04/10/23 23:11	B3D0100	BC	3550B
Endrin	ND		1	0.106	1.00	ug/kg	04/10/23 11:32	04/10/23 23:11	B3D0100	BC	3550B
Endrin aldehyde	ND		1	0.117	1.00	ug/kg	04/10/23 11:32	04/10/23 23:11	B3D0100	BC	3550B
Endrin ketone	ND		1	0.122	1.00	ug/kg	04/10/23 11:32	04/10/23 23:11	B3D0100	BC	3550B
Endosulfan 1	ND		1	0.115	1.00	ug/kg	04/10/23 11:32	04/10/23 23:11	B3D0100	BC	3550B
Endosulfan 11	ND		1	0.177	1.00	ug/kg	04/10/23 11:32	04/10/23 23:11	B3D0100	BC	3550B
Endosulfan sulfate	ND		1	0.0470	1.00	ug/kg	04/10/23 11:32	04/10/23 23:11	B3D0100	BC	3550B
Heptachlor	ND		1	0.206	1.00	ug/kg	04/10/23 11:32	04/10/23 23:11	B3D0100	BC	3550B
Heptachlor epoxide	ND		1	0.101	1.00	ug/kg	04/10/23 11:32	04/10/23 23:11	B3D0100	BC	3550B
Methoxychlor	ND		1	0.310	1.00	ug/kg	04/10/23 11:32	04/10/23 23:11	B3D0100	BC	3550B
Toxaphene	ND		1	4.10	50.0	ug/kg	04/10/23 11:32	04/10/23 23:11	B3D0100	BC	3550B
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*82.3%*				*30-150*		04/10/23 11:32	*04/10/23 23:11*	B3D0100	*BC*	3550B
Surrogate: Tetrachloro-m-xylene	*73.1%*				*30-150*		04/10/23 11:32	*04/10/23 23:11*	B3D0100	*BC*	3550B

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Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56	

Analytical Results

Client ID: SB-4-D0.5
Lab ID: BED0011-29 (Soil) **Sampled: 04/04/23 8:49**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Cadmium	**1.34**	J	1	1.30	2.50	mg/kg	04/06/23 09:18	04/07/23 15:15	B3D0054	DT	3050B
Lead	**12.5**		1	0.550	5.00	mg/kg	04/06/23 09:18	04/07/23 15:15	B3D0054	DT	3050B
Nickel	**23.7**		1	2.50	5.00	mg/kg	04/06/23 09:18	04/07/23 15:15	B3D0054	DT	3050B
Method: EPA 7471A											
Mercury	**0.0184**	J	1	0.0180	0.170	mg/kg	04/06/23 09:21	04/11/23 10:38	B3D0055	LE	7471A
Polynuclear Aromatic Hydrocarbons											
Method: EPA 8270C-SIM											
2-Methylnaphthalene	ND		1	0.00200	0.0125	mg/kg	04/07/23 10:32	04/07/23 16:19	B3D0076	TTN	3550B
Acenaphthene	ND		1	0.0108	0.0250	mg/kg	04/07/23 10:32	04/07/23 16:19	B3D0076	TTN	3550B
Acenaphthylene	ND		1	0.00937	0.0250	mg/kg	04/07/23 10:32	04/07/23 16:19	B3D0076	TTN	3550B
Anthracene	ND		1	0.0112	0.0250	mg/kg	04/07/23 10:32	04/07/23 16:19	B3D0076	TTN	3550B
Benzo(a)anthracene	ND		1	0.00896	0.0250	mg/kg	04/07/23 10:32	04/07/23 16:19	B3D0076	TTN	3550B
Benzo(a)pyrene	ND		1	0.0121	0.0250	mg/kg	04/07/23 10:32	04/07/23 16:19	B3D0076	TTN	3550B
Benzo(b)fluoranthene	ND		1	0.00764	0.0250	mg/kg	04/07/23 10:32	04/07/23 16:19	B3D0076	TTN	3550B
Benzo(g,h,i)perylene	ND		1	0.0132	0.0250	mg/kg	04/07/23 10:32	04/07/23 16:19	B3D0076	TTN	3550B
Benzo(k)fluoranthene	ND		1	0.0119	0.0250	mg/kg	04/07/23 10:32	04/07/23 16:19	B3D0076	TTN	3550B
Chrysene	ND		1	0.00851	0.0250	mg/kg	04/07/23 10:32	04/07/23 16:19	B3D0076	TTN	3550B
Dibenzo(a,h)anthracene	ND		1	0.0168	0.0250	mg/kg	04/07/23 10:32	04/07/23 16:19	B3D0076	TTN	3550B
Fluoranthene	ND		1	0.0122	0.0250	mg/kg	04/07/23 10:32	04/07/23 16:19	B3D0076	TTN	3550B
Fluorene	ND		1	0.0116	0.0250	mg/kg	04/07/23 10:32	04/07/23 16:19	B3D0076	TTN	3550B
Indeno(1,2,3-cd)pyrene	ND		1	0.0171	0.0250	mg/kg	04/07/23 10:32	04/07/23 16:19	B3D0076	TTN	3550B
Naphthalene	ND		1	0.00936	0.0250	mg/kg	04/07/23 10:32	04/07/23 16:19	B3D0076	TTN	3550B
Phenanthrene	ND		1	0.0103	0.0250	mg/kg	04/07/23 10:32	04/07/23 16:19	B3D0076	TTN	3550B
Pyrene	ND		1	0.00981	0.0250	mg/kg	04/07/23 10:32	04/07/23 16:19	B3D0076	TTN	3550B
	Recovery				Acceptance Criteria						
Surrogate: p-Terphenyl-D14	*74.5%*				*40-130*		04/07/23 10:32	*04/07/23 16:19*	B3D0076	*TTN*	3550B
Organochlorine Pesticides											

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Analytical Results

Client ID: SB-4-D0.5

Lab ID: BED0011-29 (Soil) **Sampled: 04/04/23 8:49**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Organochlorine Pesticides (Continued)											
Method: EPA 8081A											
Aldrin	ND		1	0.0900	1.00	ug/kg	04/10/23 11:32	04/10/23 23:45	B3D0100	BC	3550B
alpha-Chlordane	ND		1	0.121	1.00	ug/kg	04/10/23 11:32	04/10/23 23:45	B3D0100	BC	3550B
gamma-Chlordane	ND		1	0.114	1.00	ug/kg	04/10/23 11:32	04/10/23 23:45	B3D0100	BC	3550B
Chlordane (Total)	ND		1	1.00	2.00	ug/kg	04/10/23 11:32	04/10/23 23:45	B3D0100	BC	3550B
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	ND		1	0.0620	1.00	ug/kg	04/10/23 11:32	04/10/23 23:45	B3D0100	BC	3550B
alpha-Hexachlorocyclohexane (Alpha-BHC)	ND		1	0.0710	1.00	ug/kg	04/10/23 11:32	04/10/23 23:45	B3D0100	BC	3550B
beta-Hexachlorocyclohexane (Betta-BHC)	ND		1	0.217	1.00	ug/kg	04/10/23 11:32	04/10/23 23:45	B3D0100	BC	3550B
delta-Hexachlorocyclohexane (Delta-BHC)	ND		1	0.0880	1.00	ug/kg	04/10/23 11:32	04/10/23 23:45	B3D0100	BC	3550B
4,4'-DDD (DDD)	ND		1	0.0980	1.00	ug/kg	04/10/23 11:32	04/10/23 23:45	B3D0100	BC	3550B
4,4'-DDE (DDE)	**0.647**	J	1	0.0930	1.00	ug/kg	04/10/23 11:32	04/10/23 23:45	B3D0100	BC	3550B
4,4'-DDT (DDT)	ND		1	0.235	1.00	ug/kg	04/10/23 11:32	04/10/23 23:45	B3D0100	BC	3550B
Dieldrin	ND		1	0.0950	1.00	ug/kg	04/10/23 11:32	04/10/23 23:45	B3D0100	BC	3550B
Endrin	ND		1	0.106	1.00	ug/kg	04/10/23 11:32	04/10/23 23:45	B3D0100	BC	3550B
Endrin aldehyde	ND		1	0.117	1.00	ug/kg	04/10/23 11:32	04/10/23 23:45	B3D0100	BC	3550B
Endrin ketone	ND		1	0.122	1.00	ug/kg	04/10/23 11:32	04/10/23 23:45	B3D0100	BC	3550B
Endosulfan 1	ND		1	0.115	1.00	ug/kg	04/10/23 11:32	04/10/23 23:45	B3D0100	BC	3550B
Endosulfan 11	ND		1	0.177	1.00	ug/kg	04/10/23 11:32	04/10/23 23:45	B3D0100	BC	3550B
Endosulfan sulfate	ND		1	0.0470	1.00	ug/kg	04/10/23 11:32	04/10/23 23:45	B3D0100	BC	3550B
Heptachlor	ND		1	0.206	1.00	ug/kg	04/10/23 11:32	04/10/23 23:45	B3D0100	BC	3550B
Heptachlor epoxide	ND		1	0.101	1.00	ug/kg	04/10/23 11:32	04/10/23 23:45	B3D0100	BC	3550B
Methoxychlor	ND		1	0.310	1.00	ug/kg	04/10/23 11:32	04/10/23 23:45	B3D0100	BC	3550B
Toxaphene	ND		1	4.10	50.0	ug/kg	04/10/23 11:32	04/10/23 23:45	B3D0100	BC	3550B
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*99.7%*				*30-150*		04/10/23 11:32	*04/10/23 23:45*	B3D0100	*BC*	3550B
Surrogate: Tetrachloro-m-xylene	*91.2%*				*30-150*		04/10/23 11:32	*04/10/23 23:45*	B3D0100	*BC*	3550B
PCBs											
Method: EPA 8082											
Aroclor-1016 (PCB-1016)	ND		1	11.6	25.0	ug/kg	04/07/23 08:15	04/07/23 14:15	B3D0068	BC	3550B
Aroclor-1221 (PCB-1221)	ND		1	8.11	25.0	ug/kg	04/07/23 08:15	04/07/23 14:15	B3D0068	BC	3550B

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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56	

Analytical Results

Client ID: SB-4-D0.5

Lab ID: BED0011-29 (Soil) **Sampled: 04/04/23 8:49**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
PCBs (Continued)											
Aroclor-1232 (PCB-1232)	ND		1	15.2	25.0	ug/kg	04/07/23 08:15	04/07/23 14:15	B3D0068	BC	3550B
Aroclor-1242 (PCB-1242)	ND		1	5.25	25.0	ug/kg	04/07/23 08:15	04/07/23 14:15	B3D0068	BC	3550B
Aroclor-1248 (PCB-1248)	ND		1	11.0	25.0	ug/kg	04/07/23 08:15	04/07/23 14:15	B3D0068	BC	3550B
Aroclor-1254 (PCB-1254)	ND		1	11.9	25.0	ug/kg	04/07/23 08:15	04/07/23 14:15	B3D0068	BC	3550B
Aroclor-1260 (PCB-1260)	ND		1	6.02	25.0	ug/kg	04/07/23 08:15	04/07/23 14:15	B3D0068	BC	3550B
Aroclor-1262 (PCB-1262)	ND		1	20.0	50.0	ug/kg	04/07/23 08:15	04/07/23 14:15	B3D0068	BC	3550B
Aroclor-1268 (PCB-1268)	ND		1	20.0	50.0	ug/kg	04/07/23 08:15	04/07/23 14:15	B3D0068	BC	3550B
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*104%*				*50-150*		04/07/23 08:15	*04/07/23 14:15*	B3D0068	*BC*	3550B
Surrogate: Tetrachloro-m-xylene	*89.5%*				*50-150*		04/07/23 08:15	*04/07/23 14:15*	B3D0068	*BC*	3550B

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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56	

Analytical Results

Client ID: SB-22-D0.5
Lab ID: BED0011-31 (Soil) **Sampled: 04/04/23 12:58**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Cadmium	ND		1	1.29	2.48	mg/kg	04/06/23 09:18	04/07/23 15:18	B3D0054	DT	3050B
Lead	**15.3**		1	0.550	5.00	mg/kg	04/06/23 09:18	04/07/23 15:18	B3D0054	DT	3050B
Nickel	**21.2**		1	2.48	4.95	mg/kg	04/06/23 09:18	04/07/23 15:18	B3D0054	DT	3050B
Method: EPA 7471A											
Mercury	**0.0777**	J	1	0.0180	0.170	mg/kg	04/06/23 09:21	04/11/23 10:46	B3D0055	LE	7471A
Polynuclear Aromatic Hydrocarbons											
Method: EPA 8270C-SIM											
2-Methylnaphthalene	ND		1	0.00198	0.0124	mg/kg	04/07/23 10:32	04/07/23 16:51	B3D0076	TTN	3550B
Acenaphthene	ND		1	0.0107	0.0248	mg/kg	04/07/23 10:32	04/07/23 16:51	B3D0076	TTN	3550B
Acenaphthylene	ND		1	0.00929	0.0248	mg/kg	04/07/23 10:32	04/07/23 16:51	B3D0076	TTN	3550B
Anthracene	ND		1	0.0111	0.0248	mg/kg	04/07/23 10:32	04/07/23 16:51	B3D0076	TTN	3550B
Benzo(a)anthracene	ND		1	0.00888	0.0248	mg/kg	04/07/23 10:32	04/07/23 16:51	B3D0076	TTN	3550B
Benzo(a)pyrene	ND		1	0.0120	0.0248	mg/kg	04/07/23 10:32	04/07/23 16:51	B3D0076	TTN	3550B
Benzo(b)fluoranthene	ND		1	0.00757	0.0248	mg/kg	04/07/23 10:32	04/07/23 16:51	B3D0076	TTN	3550B
Benzo(g,h,i)perylene	ND		1	0.0131	0.0248	mg/kg	04/07/23 10:32	04/07/23 16:51	B3D0076	TTN	3550B
Benzo(k)fluoranthene	ND		1	0.0118	0.0248	mg/kg	04/07/23 10:32	04/07/23 16:51	B3D0076	TTN	3550B
Chrysene	ND		1	0.00843	0.0248	mg/kg	04/07/23 10:32	04/07/23 16:51	B3D0076	TTN	3550B
Dibenzo(a,h)anthracene	ND		1	0.0166	0.0248	mg/kg	04/07/23 10:32	04/07/23 16:51	B3D0076	TTN	3550B
Fluoranthene	ND		1	0.0120	0.0248	mg/kg	04/07/23 10:32	04/07/23 16:51	B3D0076	TTN	3550B
Fluorene	ND		1	0.0114	0.0248	mg/kg	04/07/23 10:32	04/07/23 16:51	B3D0076	TTN	3550B
Indeno(1,2,3-cd)pyrene	ND		1	0.0169	0.0248	mg/kg	04/07/23 10:32	04/07/23 16:51	B3D0076	TTN	3550B
Naphthalene	ND		1	0.00928	0.0248	mg/kg	04/07/23 10:32	04/07/23 16:51	B3D0076	TTN	3550B
Phenanthrene	ND		1	0.0102	0.0248	mg/kg	04/07/23 10:32	04/07/23 16:51	B3D0076	TTN	3550B
Pyrene	**0.0188**	J	1	0.00972	0.0248	mg/kg	04/07/23 10:32	04/07/23 16:51	B3D0076	TTN	3550B
	Recovery				Acceptance Criteria						
Surrogate: p-Terphenyl-D14	*78.0%*				*40-130*		04/07/23 10:32	*04/07/23 16:51*	B3D0076	*TTN*	3550B
Organochlorine Pesticides											

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100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56	

Analytical Results

Client ID: SB-22-D0.5

Lab ID: BED0011-31 (Soil) **Sampled: 04/04/23 12:58**

Organochlorine Pesticides (Continued)

Method: EPA 8081A

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Aldrin	ND		1	0.0900	1.00	ug/kg	04/10/23 11:32	04/11/23 00:02	B3D0100	BC	3550B
alpha-Chlordane	ND		1	0.121	1.00	ug/kg	04/10/23 11:32	04/11/23 00:02	B3D0100	BC	3550B
gamma-Chlordane	ND		1	0.114	1.00	ug/kg	04/10/23 11:32	04/11/23 00:02	B3D0100	BC	3550B
Chlordane (Total)	ND		1	1.00	2.00	ug/kg	04/10/23 11:32	04/11/23 00:02	B3D0100	BC	3550B
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	ND		1	0.0620	1.00	ug/kg	04/10/23 11:32	04/11/23 00:02	B3D0100	BC	3550B
alpha-Hexachlorocyclohexane (Alpha-BHC)	ND		1	0.0710	1.00	ug/kg	04/10/23 11:32	04/11/23 00:02	B3D0100	BC	3550B
beta-Hexachlorocyclohexane (Betta-BHC)	ND		1	0.217	1.00	ug/kg	04/10/23 11:32	04/11/23 00:02	B3D0100	BC	3550B
delta-Hexachlorocyclohexane (Delta-BHC)	ND		1	0.0880	1.00	ug/kg	04/10/23 11:32	04/11/23 00:02	B3D0100	BC	3550B
4,4'-DDD (DDD)	ND		1	0.0980	1.00	ug/kg	04/10/23 11:32	04/11/23 00:02	B3D0100	BC	3550B
4,4'-DDE (DDE)	ND		1	0.0930	1.00	ug/kg	04/10/23 11:32	04/11/23 00:02	B3D0100	BC	3550B
4,4'-DDT (DDT)	ND		1	0.235	1.00	ug/kg	04/10/23 11:32	04/11/23 00:02	B3D0100	BC	3550B
Dieldrin	ND		1	0.0950	1.00	ug/kg	04/10/23 11:32	04/11/23 00:02	B3D0100	BC	3550B
Endrin	ND		1	0.106	1.00	ug/kg	04/10/23 11:32	04/11/23 00:02	B3D0100	BC	3550B
Endrin aldehyde	ND		1	0.117	1.00	ug/kg	04/10/23 11:32	04/11/23 00:02	B3D0100	BC	3550B
Endrin ketone	ND		1	0.122	1.00	ug/kg	04/10/23 11:32	04/11/23 00:02	B3D0100	BC	3550B
Endosulfan 1	ND		1	0.115	1.00	ug/kg	04/10/23 11:32	04/11/23 00:02	B3D0100	BC	3550B
Endosulfan 11	ND		1	0.177	1.00	ug/kg	04/10/23 11:32	04/11/23 00:02	B3D0100	BC	3550B
Endosulfan sulfate	ND		1	0.0470	1.00	ug/kg	04/10/23 11:32	04/11/23 00:02	B3D0100	BC	3550B
Heptachlor	ND		1	0.206	1.00	ug/kg	04/10/23 11:32	04/11/23 00:02	B3D0100	BC	3550B
Heptachlor epoxide	ND		1	0.101	1.00	ug/kg	04/10/23 11:32	04/11/23 00:02	B3D0100	BC	3550B
Methoxychlor	ND		1	0.310	1.00	ug/kg	04/10/23 11:32	04/11/23 00:02	B3D0100	BC	3550B
Toxaphene	ND		1	4.10	50.0	ug/kg	04/10/23 11:32	04/11/23 00:02	B3D0100	BC	3550B
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*76.7%*				*30-150*		04/10/23 11:32	*04/11/23 00:02*	B3D0100	*BC*	3550B
Surrogate: Tetrachloro-m-xylene	*70.1%*				*30-150*		04/10/23 11:32	*04/11/23 00:02*	B3D0100	*BC*	3550B

PCBs

Method: EPA 8082

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Aroclor-1016 (PCB-1016)	ND		1	11.6	25.0	ug/kg	04/07/23 08:15	04/07/23 14:34	B3D0068	BC	3550B
Aroclor-1221 (PCB-1221)	ND		1	8.11	25.0	ug/kg	04/07/23 08:15	04/07/23 14:34	B3D0068	BC	3550B

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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56	

Analytical Results

Client ID: SB-22-D0.5

Lab ID: BED0011-31 (Soil) **Sampled: 04/04/23 12:58**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
PCBs (Continued)											
Aroclor-1232 (PCB-1232)	ND		1	15.2	25.0	ug/kg	04/07/23 08:15	04/07/23 14:34	B3D0068	BC	3550B
Aroclor-1242 (PCB-1242)	ND		1	5.25	25.0	ug/kg	04/07/23 08:15	04/07/23 14:34	B3D0068	BC	3550B
Aroclor-1248 (PCB-1248)	ND		1	11.0	25.0	ug/kg	04/07/23 08:15	04/07/23 14:34	B3D0068	BC	3550B
Aroclor-1254 (PCB-1254)	**293**		1	11.9	25.0	ug/kg	04/07/23 08:15	04/07/23 14:34	B3D0068	BC	3550B
Aroclor-1260 (PCB-1260)	ND		1	6.02	25.0	ug/kg	04/07/23 08:15	04/07/23 14:34	B3D0068	BC	3550B
Aroclor-1262 (PCB-1262)	ND		1	20.0	50.0	ug/kg	04/07/23 08:15	04/07/23 14:34	B3D0068	BC	3550B
Aroclor-1268 (PCB-1268)	ND		1	20.0	50.0	ug/kg	04/07/23 08:15	04/07/23 14:34	B3D0068	BC	3550B
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*119%*				*50-150*		04/07/23 08:15	*04/07/23 14:34*	B3D0068	*BC*	3550B
Surrogate: Tetrachloro-m-xylene	*73.8%*				*50-150*		04/07/23 08:15	*04/07/23 14:34*	B3D0068	*BC*	3550B

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100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56	

Analytical Results

Client ID: SB-53-D0.5
Lab ID: BED0011-34 (Soil) **Sampled: 04/04/23 13:52**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Cadmium	**1.81**	J	1	1.30	2.50	mg/kg	04/06/23 09:18	04/07/23 15:21	B3D0054	DT	3050B
Lead	**31.3**		1	0.550	5.00	mg/kg	04/06/23 09:18	04/07/23 15:21	B3D0054	DT	3050B
Nickel	**24.4**		1	2.50	5.00	mg/kg	04/06/23 09:18	04/07/23 15:21	B3D0054	DT	3050B
Method: EPA 7471A											
Mercury	**0.0272**	J	1	0.0180	0.170	mg/kg	04/06/23 09:21	04/11/23 10:48	B3D0055	LE	7471A
Polynuclear Aromatic Hydrocarbons											
Method: EPA 8270C-SIM											
2-Methylnaphthalene	ND		1	0.00993	0.0621	mg/kg	04/07/23 10:32	04/07/23 17:23	B3D0076	TTN	3550B
Acenaphthene	ND		1	0.0537	0.124	mg/kg	04/07/23 10:32	04/07/23 17:23	B3D0076	TTN	3550B
Acenaphthylene	ND		1	0.0465	0.124	mg/kg	04/07/23 10:32	04/07/23 17:23	B3D0076	TTN	3550B
Anthracene	ND		1	0.0557	0.124	mg/kg	04/07/23 10:32	04/07/23 17:23	B3D0076	TTN	3550B
Benzo(a)anthracene	ND		1	0.0445	0.124	mg/kg	04/07/23 10:32	04/07/23 17:23	B3D0076	TTN	3550B
Benzo(a)pyrene	ND		1	0.0602	0.124	mg/kg	04/07/23 10:32	04/07/23 17:23	B3D0076	TTN	3550B
Benzo(b)fluoranthene	ND		1	0.0379	0.124	mg/kg	04/07/23 10:32	04/07/23 17:23	B3D0076	TTN	3550B
Benzo(g,h,i)perylene	ND		1	0.0656	0.124	mg/kg	04/07/23 10:32	04/07/23 17:23	B3D0076	TTN	3550B
Benzo(k)fluoranthene	ND		1	0.0591	0.124	mg/kg	04/07/23 10:32	04/07/23 17:23	B3D0076	TTN	3550B
Chrysene	ND		1	0.0423	0.124	mg/kg	04/07/23 10:32	04/07/23 17:23	B3D0076	TTN	3550B
Dibenzo(a,h)anthracene	ND		1	0.0834	0.124	mg/kg	04/07/23 10:32	04/07/23 17:23	B3D0076	TTN	3550B
Fluoranthene	ND		1	0.0603	0.124	mg/kg	04/07/23 10:32	04/07/23 17:23	B3D0076	TTN	3550B
Fluorene	ND		1	0.0573	0.124	mg/kg	04/07/23 10:32	04/07/23 17:23	B3D0076	TTN	3550B
Indeno(1,2,3-cd)pyrene	ND		1	0.0847	0.124	mg/kg	04/07/23 10:32	04/07/23 17:23	B3D0076	TTN	3550B
Naphthalene	ND		1	0.0465	0.124	mg/kg	04/07/23 10:32	04/07/23 17:23	B3D0076	TTN	3550B
Phenanthrene	ND		1	0.0513	0.124	mg/kg	04/07/23 10:32	04/07/23 17:23	B3D0076	TTN	3550B
Pyrene	ND		1	0.0487	0.124	mg/kg	04/07/23 10:32	04/07/23 17:23	B3D0076	TTN	3550B
	Recovery				Acceptance Criteria						
Surrogate: p-Terphenyl-D14	*75.0%*				*40-130*		04/07/23 10:32	*04/07/23 17:23*	B3D0076	*TTN*	3550B
Organochlorine Pesticides											

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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56	

Analytical Results

Client ID: SB-53-D0.5

Lab ID: BED0011-34 (Soil) **Sampled: 04/04/23 13:52**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Organochlorine Pesticides (Continued)											
Method: EPA 8081A											
Aldrin	ND		1	0.0900	1.00	ug/kg	04/10/23 11:32	04/11/23 00:19	B3D0100	BC	3550B
alpha-Chlordane	**0.699**	J	1	0.121	1.00	ug/kg	04/10/23 11:32	04/11/23 00:19	B3D0100	BC	3550B
gamma-Chlordane	**0.701**	J	1	0.114	1.00	ug/kg	04/10/23 11:32	04/11/23 00:19	B3D0100	BC	3550B
Chlordane (Total)	**1.40**	J	1	1.00	2.00	ug/kg	04/10/23 11:32	04/11/23 00:19	B3D0100	BC	3550B
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	ND		1	0.0620	1.00	ug/kg	04/10/23 11:32	04/11/23 00:19	B3D0100	BC	3550B
alpha-Hexachlorocyclohexane (Alpha-BHC)	ND		1	0.0710	1.00	ug/kg	04/10/23 11:32	04/11/23 00:19	B3D0100	BC	3550B
beta-Hexachlorocyclohexane (Betta-BHC)	ND		1	0.217	1.00	ug/kg	04/10/23 11:32	04/11/23 00:19	B3D0100	BC	3550B
delta-Hexachlorocyclohexane (Delta-BHC)	ND		1	0.0880	1.00	ug/kg	04/10/23 11:32	04/11/23 00:19	B3D0100	BC	3550B
4,4'-DDD (DDD)	**0.498**	J	1	0.0980	1.00	ug/kg	04/10/23 11:32	04/11/23 00:19	B3D0100	BC	3550B
4,4'-DDE (DDE)	**4.36**		1	0.0930	1.00	ug/kg	04/10/23 11:32	04/11/23 00:19	B3D0100	BC	3550B
4,4'-DDT (DDT)	**5.88**		1	0.235	1.00	ug/kg	04/10/23 11:32	04/11/23 00:19	B3D0100	BC	3550B
Dieldrin	**0.629**	J	1	0.0950	1.00	ug/kg	04/10/23 11:32	04/11/23 00:19	B3D0100	BC	3550B
Endrin	ND		1	0.106	1.00	ug/kg	04/10/23 11:32	04/11/23 00:19	B3D0100	BC	3550B
Endrin aldehyde	ND		1	0.117	1.00	ug/kg	04/10/23 11:32	04/11/23 00:19	B3D0100	BC	3550B
Endrin ketone	ND		1	0.122	1.00	ug/kg	04/10/23 11:32	04/11/23 00:19	B3D0100	BC	3550B
Endosulfan 1	ND		1	0.115	1.00	ug/kg	04/10/23 11:32	04/11/23 00:19	B3D0100	BC	3550B
Endosulfan 11	ND		1	0.177	1.00	ug/kg	04/10/23 11:32	04/11/23 00:19	B3D0100	BC	3550B
Endosulfan sulfate	ND		1	0.0470	1.00	ug/kg	04/10/23 11:32	04/11/23 00:19	B3D0100	BC	3550B
Heptachlor	ND		1	0.206	1.00	ug/kg	04/10/23 11:32	04/11/23 00:19	B3D0100	BC	3550B
Heptachlor epoxide	ND		1	0.101	1.00	ug/kg	04/10/23 11:32	04/11/23 00:19	B3D0100	BC	3550B
Methoxychlor	ND		1	0.310	1.00	ug/kg	04/10/23 11:32	04/11/23 00:19	B3D0100	BC	3550B
Toxaphene	ND		1	4.10	50.0	ug/kg	04/10/23 11:32	04/11/23 00:19	B3D0100	BC	3550B
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*85.5%*				*30-150*		04/10/23 11:32	*04/11/23 00:19*	B3D0100	*BC*	3550B
Surrogate: Tetrachloro-m-xylene	*95.3%*				*30-150*		04/10/23 11:32	*04/11/23 00:19*	B3D0100	*BC*	3550B
PCBs											
Method: EPA 8082											
Aroclor-1016 (PCB-1016)	ND		1	11.6	25.0	ug/kg	04/07/23 08:15	04/07/23 14:54	B3D0068	BC	3550B
Aroclor-1221 (PCB-1221)	ND		1	8.11	25.0	ug/kg	04/07/23 08:15	04/07/23 14:54	B3D0068	BC	3550B

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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56	

Analytical Results

Client ID: SB-53-D0.5

Lab ID: BED0011-34 (Soil) **Sampled: 04/04/23 13:52**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
PCBs (Continued)											
Aroclor-1232 (PCB-1232)	ND		1	15.2	25.0	ug/kg	04/07/23 08:15	04/07/23 14:54	B3D0068	BC	3550B
Aroclor-1242 (PCB-1242)	ND		1	5.25	25.0	ug/kg	04/07/23 08:15	04/07/23 14:54	B3D0068	BC	3550B
Aroclor-1248 (PCB-1248)	ND		1	11.0	25.0	ug/kg	04/07/23 08:15	04/07/23 14:54	B3D0068	BC	3550B
Aroclor-1254 (PCB-1254)	ND		1	11.9	25.0	ug/kg	04/07/23 08:15	04/07/23 14:54	B3D0068	BC	3550B
Aroclor-1260 (PCB-1260)	ND		1	6.02	25.0	ug/kg	04/07/23 08:15	04/07/23 14:54	B3D0068	BC	3550B
Aroclor-1262 (PCB-1262)	ND		1	20.0	50.0	ug/kg	04/07/23 08:15	04/07/23 14:54	B3D0068	BC	3550B
Aroclor-1268 (PCB-1268)	ND		1	20.0	50.0	ug/kg	04/07/23 08:15	04/07/23 14:54	B3D0068	BC	3550B
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*114%*				*50-150*		04/07/23 08:15	*04/07/23 14:54*	B3D0068	*BC*	3550B
Surrogate: Tetrachloro-m-xylene	*98.2%*				*50-150*		04/07/23 08:15	*04/07/23 14:54*	B3D0068	*BC*	3550B

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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56	

Analytical Results

Client ID: SB-53-D0.5-DUP
Lab ID: BED0011-35 (Soil) **Sampled: 04/04/23 13:57**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Cadmium	ND		1	1.25	2.40	mg/kg	04/06/23 09:18	04/10/23 12:25	B3D0054	DT	3050B
Lead	**24.2**		1	0.550	5.00	mg/kg	04/06/23 09:18	04/10/23 12:25	B3D0054	DT	3050B
Nickel	**16.3**		1	2.40	4.81	mg/kg	04/06/23 09:18	04/10/23 12:25	B3D0054	DT	3050B
Method: EPA 7471A											
Mercury	**0.0258**	J	1	0.0180	0.170	mg/kg	04/06/23 09:21	04/11/23 10:50	B3D0055	LE	7471A
Polynuclear Aromatic Hydrocarbons											
Method: EPA 8270C-SIM											
2-Methylnaphthalene	ND		1	0.00995	0.0622	mg/kg	04/07/23 10:32	04/07/23 17:54	B3D0076	TTN	3550B
Acenaphthene	ND		1	0.0538	0.124	mg/kg	04/07/23 10:32	04/07/23 17:54	B3D0076	TTN	3550B
Acenaphthylene	ND		1	0.0466	0.124	mg/kg	04/07/23 10:32	04/07/23 17:54	B3D0076	TTN	3550B
Anthracene	ND		1	0.0558	0.124	mg/kg	04/07/23 10:32	04/07/23 17:54	B3D0076	TTN	3550B
Benzo(a)anthracene	ND		1	0.0446	0.124	mg/kg	04/07/23 10:32	04/07/23 17:54	B3D0076	TTN	3550B
Benzo(a)pyrene	ND		1	0.0603	0.124	mg/kg	04/07/23 10:32	04/07/23 17:54	B3D0076	TTN	3550B
Benzo(b)fluoranthene	ND		1	0.0380	0.124	mg/kg	04/07/23 10:32	04/07/23 17:54	B3D0076	TTN	3550B
Benzo(g,h,i)perylene	ND		1	0.0658	0.124	mg/kg	04/07/23 10:32	04/07/23 17:54	B3D0076	TTN	3550B
Benzo(k)fluoranthene	ND		1	0.0593	0.124	mg/kg	04/07/23 10:32	04/07/23 17:54	B3D0076	TTN	3550B
Chrysene	ND		1	0.0423	0.124	mg/kg	04/07/23 10:32	04/07/23 17:54	B3D0076	TTN	3550B
Dibenzo(a,h)anthracene	ND		1	0.0835	0.124	mg/kg	04/07/23 10:32	04/07/23 17:54	B3D0076	TTN	3550B
Fluoranthene	ND		1	0.0604	0.124	mg/kg	04/07/23 10:32	04/07/23 17:54	B3D0076	TTN	3550B
Fluorene	ND		1	0.0575	0.124	mg/kg	04/07/23 10:32	04/07/23 17:54	B3D0076	TTN	3550B
Indeno(1,2,3-cd)pyrene	ND		1	0.0849	0.124	mg/kg	04/07/23 10:32	04/07/23 17:54	B3D0076	TTN	3550B
Naphthalene	ND		1	0.0466	0.124	mg/kg	04/07/23 10:32	04/07/23 17:54	B3D0076	TTN	3550B
Phenanthrene	ND		1	0.0514	0.124	mg/kg	04/07/23 10:32	04/07/23 17:54	B3D0076	TTN	3550B
Pyrene	ND		1	0.0488	0.124	mg/kg	04/07/23 10:32	04/07/23 17:54	B3D0076	TTN	3550B
	Recovery				Acceptance Criteria						
Surrogate: p-Terphenyl-D14	*72.5%*				*40-130*		04/07/23 10:32	*04/07/23 17:54*	B3D0076	*TTN*	3550B
Organochlorine Pesticides											

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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56	

Analytical Results

Client ID: SB-53-D0.5-DUP
Lab ID: BED0011-35 (Soil) **Sampled:** 04/04/23 13:57

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Organochlorine Pesticides (Continued)											
Method: EPA 8081A											
Aldrin	ND	D	2	0.180	2.00	ug/kg	04/10/23 11:32	04/11/23 00:36	B3D0100	BC	3550B
alpha-Chlordane	**0.927**	DIL, J	2	0.242	2.00	ug/kg	04/10/23 11:32	04/11/23 00:36	B3D0100	BC	3550B
gamma-Chlordane	**0.844**	DIL, J	2	0.228	2.00	ug/kg	04/10/23 11:32	04/11/23 00:36	B3D0100	BC	3550B
Chlordane (Total)	ND	D	2	2.00	4.00	ug/kg	04/10/23 11:32	04/11/23 00:36	B3D0100	BC	3550B
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	ND	D	2	0.124	2.00	ug/kg	04/10/23 11:32	04/11/23 00:36	B3D0100	BC	3550B
alpha-Hexachlorocyclohexane (Alpha-BHC)	ND	D	2	0.142	2.00	ug/kg	04/10/23 11:32	04/11/23 00:36	B3D0100	BC	3550B
beta-Hexachlorocyclohexane (Betta-BHC)	ND	D	2	0.434	2.00	ug/kg	04/10/23 11:32	04/11/23 00:36	B3D0100	BC	3550B
delta-Hexachlorocyclohexane (Delta-BHC)	ND	D	2	0.176	2.00	ug/kg	04/10/23 11:32	04/11/23 00:36	B3D0100	BC	3550B
4,4'-DDD (DDD)	**1.80**	DIL, J	2	0.196	2.00	ug/kg	04/10/23 11:32	04/11/23 00:36	B3D0100	BC	3550B
4,4'-DDE (DDE)	**7.38**	DIL	2	0.186	2.00	ug/kg	04/10/23 11:32	04/11/23 00:36	B3D0100	BC	3550B
4,4'-DDT (DDT)	**9.88**	DIL	2	0.470	2.00	ug/kg	04/10/23 11:32	04/11/23 00:36	B3D0100	BC	3550B
Dieldrin	**1.34**	DIL, J	2	0.190	2.00	ug/kg	04/10/23 11:32	04/11/23 00:36	B3D0100	BC	3550B
Endrin	ND	D	2	0.212	2.00	ug/kg	04/10/23 11:32	04/11/23 00:36	B3D0100	BC	3550B
Endrin aldehyde	ND	D	2	0.234	2.00	ug/kg	04/10/23 11:32	04/11/23 00:36	B3D0100	BC	3550B
Endrin ketone	ND	D	2	0.244	2.00	ug/kg	04/10/23 11:32	04/11/23 00:36	B3D0100	BC	3550B
Endosulfan 1	ND	D	2	0.230	2.00	ug/kg	04/10/23 11:32	04/11/23 00:36	B3D0100	BC	3550B
Endosulfan 11	ND	D	2	0.354	2.00	ug/kg	04/10/23 11:32	04/11/23 00:36	B3D0100	BC	3550B
Endosulfan sulfate	ND	D	2	0.0940	2.00	ug/kg	04/10/23 11:32	04/11/23 00:36	B3D0100	BC	3550B
Heptachlor	ND	D	2	0.412	2.00	ug/kg	04/10/23 11:32	04/11/23 00:36	B3D0100	BC	3550B
Heptachlor epoxide	ND	D	2	0.202	2.00	ug/kg	04/10/23 11:32	04/11/23 00:36	B3D0100	BC	3550B
Methoxychlor	ND	D	2	0.620	2.00	ug/kg	04/10/23 11:32	04/11/23 00:36	B3D0100	BC	3550B
Toxaphene	ND	D	2	8.20	100	ug/kg	04/10/23 11:32	04/11/23 00:36	B3D0100	BC	3550B
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*81.7%*				*30-150*		04/10/23 11:32	*04/11/23 00:36*	B3D0100	*BC*	3550B
Surrogate: Tetrachloro-m-xylene	*83.0%*				*30-150*		04/10/23 11:32	*04/11/23 00:36*	B3D0100	*BC*	3550B
PCBs											
Method: EPA 8082											
Aroclor-1016 (PCB-1016)	ND		1	11.6	25.0	ug/kg	04/07/23 08:15	04/07/23 15:13	B3D0068	BC	3550B
Aroclor-1221 (PCB-1221)	ND		1	8.11	25.0	ug/kg	04/07/23 08:15	04/07/23 15:13	B3D0068	BC	3550B

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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56	

Analytical Results

Client ID: SB-53-D0.5-DUP
Lab ID: BED0011-35 (Soil) **Sampled: 04/04/23 13:57**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
PCBs (Continued)											
Aroclor-1232 (PCB-1232)	ND		1	15.2	25.0	ug/kg	04/07/23 08:15	04/07/23 15:13	B3D0068	BC	3550B
Aroclor-1242 (PCB-1242)	ND		1	5.25	25.0	ug/kg	04/07/23 08:15	04/07/23 15:13	B3D0068	BC	3550B
Aroclor-1248 (PCB-1248)	ND		1	11.0	25.0	ug/kg	04/07/23 08:15	04/07/23 15:13	B3D0068	BC	3550B
Aroclor-1254 (PCB-1254)	ND		1	11.9	25.0	ug/kg	04/07/23 08:15	04/07/23 15:13	B3D0068	BC	3550B
Aroclor-1260 (PCB-1260)	ND		1	6.02	25.0	ug/kg	04/07/23 08:15	04/07/23 15:13	B3D0068	BC	3550B
Aroclor-1262 (PCB-1262)	ND		1	20.0	50.0	ug/kg	04/07/23 08:15	04/07/23 15:13	B3D0068	BC	3550B
Aroclor-1268 (PCB-1268)	ND		1	20.0	50.0	ug/kg	04/07/23 08:15	04/07/23 15:13	B3D0068	BC	3550B
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*120%*				*50-150*		04/07/23 08:15	*04/07/23 15:13*	B3D0068	*BC*	3550B
Surrogate: Tetrachloro-m-xylene	*80.4%*				*50-150*		04/07/23 08:15	*04/07/23 15:13*	B3D0068	*BC*	3550B

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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56	

Analytical Results

Client ID: SB-52-D0.5
Lab ID: BED0011-38 (Soil) **Sampled: 04/04/23 14:17**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Cadmium	ND		1	1.30	2.50	mg/kg	04/06/23 09:18	04/10/23 12:28	B3D0054	DT	3050B
Lead	**2.65**	J	1	0.550	5.00	mg/kg	04/06/23 09:18	04/10/23 12:28	B3D0054	DT	3050B
Nickel	**16.4**		1	2.50	5.00	mg/kg	04/06/23 09:18	04/10/23 12:28	B3D0054	DT	3050B
Method: EPA 7471A											
Mercury	**0.0217**	J	1	0.0180	0.170	mg/kg	04/06/23 09:21	04/11/23 10:56	B3D0055	LE	7471A
Polynuclear Aromatic Hydrocarbons											
Method: EPA 8270C-SIM											
2-Methylnaphthalene	ND		1	0.00199	0.0125	mg/kg	04/07/23 10:32	04/07/23 18:26	B3D0076	TTN	3550B
Acenaphthene	ND		1	0.0108	0.0249	mg/kg	04/07/23 10:32	04/07/23 18:26	B3D0076	TTN	3550B
Acenaphthylene	ND		1	0.00934	0.0249	mg/kg	04/07/23 10:32	04/07/23 18:26	B3D0076	TTN	3550B
Anthracene	ND		1	0.0112	0.0249	mg/kg	04/07/23 10:32	04/07/23 18:26	B3D0076	TTN	3550B
Benzo(a)anthracene	ND		1	0.00893	0.0249	mg/kg	04/07/23 10:32	04/07/23 18:26	B3D0076	TTN	3550B
Benzo(a)pyrene	ND		1	0.0121	0.0249	mg/kg	04/07/23 10:32	04/07/23 18:26	B3D0076	TTN	3550B
Benzo(b)fluoranthene	ND		1	0.00762	0.0249	mg/kg	04/07/23 10:32	04/07/23 18:26	B3D0076	TTN	3550B
Benzo(g,h,i)perylene	ND		1	0.0132	0.0249	mg/kg	04/07/23 10:32	04/07/23 18:26	B3D0076	TTN	3550B
Benzo(k)fluoranthene	ND		1	0.0119	0.0249	mg/kg	04/07/23 10:32	04/07/23 18:26	B3D0076	TTN	3550B
Chrysene	ND		1	0.00848	0.0249	mg/kg	04/07/23 10:32	04/07/23 18:26	B3D0076	TTN	3550B
Dibenzo(a,h)anthracene	ND		1	0.0167	0.0249	mg/kg	04/07/23 10:32	04/07/23 18:26	B3D0076	TTN	3550B
Fluoranthene	ND		1	0.0121	0.0249	mg/kg	04/07/23 10:32	04/07/23 18:26	B3D0076	TTN	3550B
Fluorene	ND		1	0.0115	0.0249	mg/kg	04/07/23 10:32	04/07/23 18:26	B3D0076	TTN	3550B
Indeno(1,2,3-cd)pyrene	ND		1	0.0170	0.0249	mg/kg	04/07/23 10:32	04/07/23 18:26	B3D0076	TTN	3550B
Naphthalene	ND		1	0.00933	0.0249	mg/kg	04/07/23 10:32	04/07/23 18:26	B3D0076	TTN	3550B
Phenanthrene	ND		1	0.0103	0.0249	mg/kg	04/07/23 10:32	04/07/23 18:26	B3D0076	TTN	3550B
Pyrene	ND		1	0.00978	0.0249	mg/kg	04/07/23 10:32	04/07/23 18:26	B3D0076	TTN	3550B
	Recovery				Acceptance Criteria						
Surrogate: p-Terphenyl-D14	*80.5%*				*40-130*		04/07/23 10:32	*04/07/23 18:26*	B3D0076	*TTN*	3550B
Organochlorine Pesticides											

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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56	

Analytical Results

Client ID: SB-52-D0.5

Lab ID: BED0011-38 (Soil) **Sampled: 04/04/23 14:17**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Organochlorine Pesticides (Continued)											
Method: EPA 8081A											
Aldrin	ND		1	0.0900	1.00	ug/kg	04/10/23 11:32	04/11/23 11:46	B3D0100	ATS	3550B
alpha-Chlordane	ND		1	0.121	1.00	ug/kg	04/10/23 11:32	04/11/23 11:46	B3D0100	ATS	3550B
gamma-Chlordane	ND		1	0.114	1.00	ug/kg	04/10/23 11:32	04/11/23 11:46	B3D0100	ATS	3550B
Chlordane (Total)	ND		1	1.00	2.00	ug/kg	04/10/23 11:32	04/11/23 11:46	B3D0100	ATS	3550B
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	ND		1	0.0620	1.00	ug/kg	04/10/23 11:32	04/11/23 11:46	B3D0100	ATS	3550B
alpha-Hexachlorocyclohexane (Alpha-BHC)	ND		1	0.0710	1.00	ug/kg	04/10/23 11:32	04/11/23 11:46	B3D0100	ATS	3550B
beta-Hexachlorocyclohexane (Betta-BHC)	ND		1	0.217	1.00	ug/kg	04/10/23 11:32	04/11/23 11:46	B3D0100	ATS	3550B
delta-Hexachlorocyclohexane (Delta-BHC)	ND		1	0.0880	1.00	ug/kg	04/10/23 11:32	04/11/23 11:46	B3D0100	ATS	3550B
4,4'-DDD (DDD)	ND		1	0.0980	1.00	ug/kg	04/10/23 11:32	04/11/23 11:46	B3D0100	ATS	3550B
4,4'-DDE (DDE)	ND		1	0.0930	1.00	ug/kg	04/10/23 11:32	04/11/23 11:46	B3D0100	ATS	3550B
4,4'-DDT (DDT)	ND		1	0.235	1.00	ug/kg	04/10/23 11:32	04/11/23 11:46	B3D0100	ATS	3550B
Dieldrin	ND		1	0.0950	1.00	ug/kg	04/10/23 11:32	04/11/23 11:46	B3D0100	ATS	3550B
Endrin	ND		1	0.106	1.00	ug/kg	04/10/23 11:32	04/11/23 11:46	B3D0100	ATS	3550B
Endrin aldehyde	ND		1	0.117	1.00	ug/kg	04/10/23 11:32	04/11/23 11:46	B3D0100	ATS	3550B
Endrin ketone	ND		1	0.122	1.00	ug/kg	04/10/23 11:32	04/11/23 11:46	B3D0100	ATS	3550B
Endosulfan 1	ND		1	0.115	1.00	ug/kg	04/10/23 11:32	04/11/23 11:46	B3D0100	ATS	3550B
Endosulfan 11	ND		1	0.177	1.00	ug/kg	04/10/23 11:32	04/11/23 11:46	B3D0100	ATS	3550B
Endosulfan sulfate	ND		1	0.0470	1.00	ug/kg	04/10/23 11:32	04/11/23 11:46	B3D0100	ATS	3550B
Heptachlor	ND		1	0.206	1.00	ug/kg	04/10/23 11:32	04/11/23 11:46	B3D0100	ATS	3550B
Heptachlor epoxide	ND		1	0.101	1.00	ug/kg	04/10/23 11:32	04/11/23 11:46	B3D0100	ATS	3550B
Methoxychlor	ND		1	0.310	1.00	ug/kg	04/10/23 11:32	04/11/23 11:46	B3D0100	ATS	3550B
Toxaphene	ND		1	4.10	50.0	ug/kg	04/10/23 11:32	04/11/23 11:46	B3D0100	ATS	3550B
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*42.7%*				*30-150*		04/10/23 11:32	*04/11/23 11:46*	B3D0100	*ATS*	3550B
Surrogate: Tetrachloro-m-xylene	*39.7%*				*30-150*		04/10/23 11:32	*04/11/23 11:46*	B3D0100	*ATS*	3550B
PCBs											
Method: EPA 8082											
Aroclor-1016 (PCB-1016)	ND		1	11.6	25.0	ug/kg	04/07/23 08:15	04/07/23 15:32	B3D0068	BC	3550B
Aroclor-1221 (PCB-1221)	ND		1	8.11	25.0	ug/kg	04/07/23 08:15	04/07/23 15:32	B3D0068	BC	3550B

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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56	

Analytical Results

Client ID: SB-52-D0.5

Lab ID: BED0011-38 (Soil) **Sampled: 04/04/23 14:17**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
PCBs (Continued)											
Aroclor-1232 (PCB-1232)	ND		1	15.2	25.0	ug/kg	04/07/23 08:15	04/07/23 15:32	B3D0068	BC	3550B
Aroclor-1242 (PCB-1242)	ND		1	5.25	25.0	ug/kg	04/07/23 08:15	04/07/23 15:32	B3D0068	BC	3550B
Aroclor-1248 (PCB-1248)	ND		1	11.0	25.0	ug/kg	04/07/23 08:15	04/07/23 15:32	B3D0068	BC	3550B
Aroclor-1254 (PCB-1254)	ND		1	11.9	25.0	ug/kg	04/07/23 08:15	04/07/23 15:32	B3D0068	BC	3550B
Aroclor-1260 (PCB-1260)	ND		1	6.02	25.0	ug/kg	04/07/23 08:15	04/07/23 15:32	B3D0068	BC	3550B
Aroclor-1262 (PCB-1262)	ND		1	20.0	50.0	ug/kg	04/07/23 08:15	04/07/23 15:32	B3D0068	BC	3550B
Aroclor-1268 (PCB-1268)	ND		1	20.0	50.0	ug/kg	04/07/23 08:15	04/07/23 15:32	B3D0068	BC	3550B
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*54.0%*				*50-150*		04/07/23 08:15	*04/07/23 15:32*	B3D0068	*BC*	3550B
Surrogate: Tetrachloro-m-xylene	*53.5%*				*50-150*		04/07/23 08:15	*04/07/23 15:32*	B3D0068	*BC*	3550B

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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56	

Analytical Results

Client ID: SB-51-D0.5
Lab ID: BED0011-41 (Soil) **Sampled: 04/04/23 14:32**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Cadmium	ND		1	1.29	2.48	mg/kg	04/06/23 09:18	04/10/23 12:31	B3D0054	DT	3050B
Lead	**3.93**	J	1	0.550	5.00	mg/kg	04/06/23 09:18	04/10/23 12:31	B3D0054	DT	3050B
Nickel	**16.1**		1	2.48	4.95	mg/kg	04/06/23 09:18	04/10/23 12:31	B3D0054	DT	3050B
Method: EPA 7471A											
Mercury	**0.0211**	J	1	0.0180	0.170	mg/kg	04/06/23 09:21	04/11/23 10:58	B3D0055	LE	7471A
Polynuclear Aromatic Hydrocarbons											
Method: EPA 8270C-SIM											
2-Methylnaphthalene	ND		1	0.00998	0.0624	mg/kg	04/07/23 10:32	04/07/23 18:58	B3D0076	TTN	3550B
Acenaphthene	ND		1	0.0540	0.125	mg/kg	04/07/23 10:32	04/07/23 18:58	B3D0076	TTN	3550B
Acenaphthylene	ND		1	0.0468	0.125	mg/kg	04/07/23 10:32	04/07/23 18:58	B3D0076	TTN	3550B
Anthracene	ND		1	0.0560	0.125	mg/kg	04/07/23 10:32	04/07/23 18:58	B3D0076	TTN	3550B
Benzo(a)anthracene	ND		1	0.0447	0.125	mg/kg	04/07/23 10:32	04/07/23 18:58	B3D0076	TTN	3550B
Benzo(a)pyrene	ND		1	0.0605	0.125	mg/kg	04/07/23 10:32	04/07/23 18:58	B3D0076	TTN	3550B
Benzo(b)fluoranthene	ND		1	0.0381	0.125	mg/kg	04/07/23 10:32	04/07/23 18:58	B3D0076	TTN	3550B
Benzo(g,h,i)perylene	ND		1	0.0660	0.125	mg/kg	04/07/23 10:32	04/07/23 18:58	B3D0076	TTN	3550B
Benzo(k)fluoranthene	ND		1	0.0594	0.125	mg/kg	04/07/23 10:32	04/07/23 18:58	B3D0076	TTN	3550B
Chrysene	ND		1	0.0425	0.125	mg/kg	04/07/23 10:32	04/07/23 18:58	B3D0076	TTN	3550B
Dibenzo(a,h)anthracene	ND		1	0.0838	0.125	mg/kg	04/07/23 10:32	04/07/23 18:58	B3D0076	TTN	3550B
Fluoranthene	ND		1	0.0606	0.125	mg/kg	04/07/23 10:32	04/07/23 18:58	B3D0076	TTN	3550B
Fluorene	ND		1	0.0576	0.125	mg/kg	04/07/23 10:32	04/07/23 18:58	B3D0076	TTN	3550B
Indeno(1,2,3-cd)pyrene	ND		1	0.0851	0.125	mg/kg	04/07/23 10:32	04/07/23 18:58	B3D0076	TTN	3550B
Naphthalene	ND		1	0.0467	0.125	mg/kg	04/07/23 10:32	04/07/23 18:58	B3D0076	TTN	3550B
Phenanthrene	ND		1	0.0516	0.125	mg/kg	04/07/23 10:32	04/07/23 18:58	B3D0076	TTN	3550B
Pyrene	ND		1	0.0490	0.125	mg/kg	04/07/23 10:32	04/07/23 18:58	B3D0076	TTN	3550B
	Recovery				Acceptance Criteria						
Surrogate: p-Terphenyl-D14	*87.5%*				*40-130*		04/07/23 10:32	*04/07/23 18:58*	B3D0076	*TTN*	3550B
Organochlorine Pesticides											

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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56	

Analytical Results

Client ID: SB-51-D0.5

Lab ID: BED0011-41 (Soil) **Sampled: 04/04/23 14:32**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Organochlorine Pesticides (Continued)											
Method: EPA 8081A											
Aldrin	ND		1	0.0900	1.00	ug/kg	04/10/23 11:32	04/11/23 01:10	B3D0100	BC	3550B
alpha-Chlordane	ND		1	0.121	1.00	ug/kg	04/10/23 11:32	04/11/23 01:10	B3D0100	BC	3550B
gamma-Chlordane	ND		1	0.114	1.00	ug/kg	04/10/23 11:32	04/11/23 01:10	B3D0100	BC	3550B
Chlordane (Total)	ND		1	1.00	2.00	ug/kg	04/10/23 11:32	04/11/23 01:10	B3D0100	BC	3550B
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	ND		1	0.0620	1.00	ug/kg	04/10/23 11:32	04/11/23 01:10	B3D0100	BC	3550B
alpha-Hexachlorocyclohexane (Alpha-BHC)	ND		1	0.0710	1.00	ug/kg	04/10/23 11:32	04/11/23 01:10	B3D0100	BC	3550B
beta-Hexachlorocyclohexane (Betta-BHC)	ND		1	0.217	1.00	ug/kg	04/10/23 11:32	04/11/23 01:10	B3D0100	BC	3550B
delta-Hexachlorocyclohexane (Delta-BHC)	ND		1	0.0880	1.00	ug/kg	04/10/23 11:32	04/11/23 01:10	B3D0100	BC	3550B
4,4'-DDD (DDD)	**0.239**	J	1	0.0980	1.00	ug/kg	04/10/23 11:32	04/11/23 01:10	B3D0100	BC	3550B
4,4'-DDE (DDE)	**4.23**		1	0.0930	1.00	ug/kg	04/10/23 11:32	04/11/23 01:10	B3D0100	BC	3550B
4,4'-DDT (DDT)	**1.23**		1	0.235	1.00	ug/kg	04/10/23 11:32	04/11/23 01:10	B3D0100	BC	3550B
Dieldrin	**0.131**	J	1	0.0950	1.00	ug/kg	04/10/23 11:32	04/11/23 01:10	B3D0100	BC	3550B
Endrin	**0.162**	J	1	0.106	1.00	ug/kg	04/10/23 11:32	04/11/23 01:10	B3D0100	BC	3550B
Endrin aldehyde	ND		1	0.117	1.00	ug/kg	04/10/23 11:32	04/11/23 01:10	B3D0100	BC	3550B
Endrin ketone	ND		1	0.122	1.00	ug/kg	04/10/23 11:32	04/11/23 01:10	B3D0100	BC	3550B
Endosulfan 1	ND		1	0.115	1.00	ug/kg	04/10/23 11:32	04/11/23 01:10	B3D0100	BC	3550B
Endosulfan 11	ND		1	0.177	1.00	ug/kg	04/10/23 11:32	04/11/23 01:10	B3D0100	BC	3550B
Endosulfan sulfate	ND		1	0.0470	1.00	ug/kg	04/10/23 11:32	04/11/23 01:10	B3D0100	BC	3550B
Heptachlor	ND		1	0.206	1.00	ug/kg	04/10/23 11:32	04/11/23 01:10	B3D0100	BC	3550B
Heptachlor epoxide	ND		1	0.101	1.00	ug/kg	04/10/23 11:32	04/11/23 01:10	B3D0100	BC	3550B
Methoxychlor	ND		1	0.310	1.00	ug/kg	04/10/23 11:32	04/11/23 01:10	B3D0100	BC	3550B
Toxaphene	ND		1	4.10	50.0	ug/kg	04/10/23 11:32	04/11/23 01:10	B3D0100	BC	3550B
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*91.2%*				*30-150*		04/10/23 11:32	*04/11/23 01:10*	B3D0100	*BC*	3550B
Surrogate: Tetrachloro-m-xylene	*81.8%*				*30-150*		04/10/23 11:32	*04/11/23 01:10*	B3D0100	*BC*	3550B
PCBs											
Method: EPA 8082											
Aroclor-1016 (PCB-1016)	ND		1	11.6	25.0	ug/kg	04/07/23 08:15	04/07/23 15:51	B3D0068	BC	3550B
Aroclor-1221 (PCB-1221)	ND		1	8.11	25.0	ug/kg	04/07/23 08:15	04/07/23 15:51	B3D0068	BC	3550B

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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56	

Analytical Results

Client ID: SB-51-D0.5

Lab ID: BED0011-41 (Soil) **Sampled: 04/04/23 14:32**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
PCBs (Continued)											
Aroclor-1232 (PCB-1232)	ND		1	15.2	25.0	ug/kg	04/07/23 08:15	04/07/23 15:51	B3D0068	BC	3550B
Aroclor-1242 (PCB-1242)	ND		1	5.25	25.0	ug/kg	04/07/23 08:15	04/07/23 15:51	B3D0068	BC	3550B
Aroclor-1248 (PCB-1248)	ND		1	11.0	25.0	ug/kg	04/07/23 08:15	04/07/23 15:51	B3D0068	BC	3550B
Aroclor-1254 (PCB-1254)	ND		1	11.9	25.0	ug/kg	04/07/23 08:15	04/07/23 15:51	B3D0068	BC	3550B
Aroclor-1260 (PCB-1260)	ND		1	6.02	25.0	ug/kg	04/07/23 08:15	04/07/23 15:51	B3D0068	BC	3550B
Aroclor-1262 (PCB-1262)	ND		1	20.0	50.0	ug/kg	04/07/23 08:15	04/07/23 15:51	B3D0068	BC	3550B
Aroclor-1268 (PCB-1268)	ND		1	20.0	50.0	ug/kg	04/07/23 08:15	04/07/23 15:51	B3D0068	BC	3550B
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*110%*				*50-150*		04/07/23 08:15	*04/07/23 15:51*	B3D0068	*BC*	3550B
Surrogate: Tetrachloro-m-xylene	*94.8%*				*50-150*		04/07/23 08:15	*04/07/23 15:51*	B3D0068	*BC*	3550B

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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56

Quality Control Results

Metals Total (EPA 6010B)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0054 - 3050B					**Prepared: 04/06/2023 09:18**						
Method Blank (B3D0054-BLK1)					**Analyzed: 04/07/2023 14:24**						
Cadmium	ND	1.27	2.45	mg/kg							
Lead	ND	0.550	5.00	mg/kg							
Nickel	ND	2.45	4.90	mg/kg							

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AMERICAN ENVIRONMENTAL TESTING LABORATORY, LLC
2840 North Naomi Street, Burbank, CA 91504 • ELAP# 1541 • LACSD# 10181
Telephone (888) 288-AETL • (818) 845-8200 • www.aetlab.com
A KYZER LABS COMPANY

Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56

Quality Control Results

Metals Total (EPA 6010B)

Analyte	Result		RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0054 - 3050B (Continued)					**Prepared: 04/06/2023 09:18**						
LCS (B3D0054-BS1)					**Analyzed: 04/07/2023 14:27**						
Cadmium	103		2.50	mg/kg	100		103	75-125			
Lead	105		5.00	mg/kg	100		105	75-125			
Nickel	103		5.00	mg/kg	100		103	75-125			
LCSD (B3D0054-BSD1)					**Analyzed: 04/07/2023 14:30**						
Cadmium	102		2.48	mg/kg	99.0		103	75-125	1.16	15	
Lead	105		5.00	mg/kg	99.0		106	75-125	0.0837	15	
Nickel	103		4.95	mg/kg	99.0		104	75-125	0.210	15	
Duplicate (B3D0054-DUP1)		**Source: BED0011-01**			**Analyzed: 04/07/2023 14:35**						
Cadmium	3.96	1.30	2.50	mg/kg		4.68			16.8	20	
Lead	136	0.550	5.00	mg/kg		149			8.89	20	
Nickel	25.4	2.50	5.00	mg/kg		47.2			59.9	20	R
Matrix Spike (B3D0054-MS1)		**Source: BED0011-01**			**Analyzed: 04/07/2023 14:38**						
Cadmium	89.3	1.30	2.50	mg/kg	100	4.68	84.7	75-125			
Lead	283	0.550	5.00	mg/kg	100	149	134	75-125			M
Nickel	119	2.50	5.00	mg/kg	100	47.2	71.7	75-125			M
Matrix Spike Dup (B3D0054-MSD1)		**Source: BED0011-01**			**Analyzed: 04/07/2023 14:41**						
Cadmium	87.6	1.27	2.45	mg/kg	98.0	4.68	84.6	75-125	1.96	15	
Lead	200	0.550	5.00	mg/kg	98.0	149	52.3	75-125	34.3	15	M, R
Nickel	117	2.45	4.90	mg/kg	98.0	47.2	70.8	75-125	1.94	15	M

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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56

Quality Control Results

Metals Total (EPA 7471A)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0055 - 7471A					**Prepared: 04/06/2023 09:21**						
Method Blank (B3D0055-BLK1)					**Analyzed: 04/11/2023 10:32**						
Mercury	ND	0.0180	0.170	mg/kg							

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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56

Quality Control Results

Metals Total (EPA 7471A)

Analyte	Result		RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0055 - 7471A (Continued)					**Prepared: 04/06/2023 09:21**						
LCS (B3D0055-BS1)					**Analyzed: 04/11/2023 10:34**						
Mercury	0.796		0.170	mg/kg	0.833		95.5	80-120			
LCSD (B3D0055-BSD1)					**Analyzed: 04/11/2023 10:36**						
Mercury	0.745		0.170	mg/kg	0.820		90.9	80-120	6.58	15	
Duplicate (B3D0055-DUP1)		**Source: BED0011-29**			**Analyzed: 04/11/2023 10:40**						
Mercury	0.0188	0.0180	0.170	mg/kg		0.0184			1.96	15	J
Matrix Spike (B3D0055-MS1)		**Source: BED0011-29**			**Analyzed: 04/11/2023 10:42**						
Mercury	0.797	0.0180	0.170	mg/kg	0.833	0.0184	93.4	75-125			
Matrix Spike Dup (B3D0055-MSD1)		**Source: BED0011-29**			**Analyzed: 04/11/2023 10:44**						
Mercury	0.756	0.0180	0.170	mg/kg	0.806	0.0184	91.5	75-125	5.25	15	

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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56

Quality Control Results

Volatile Organic Compounds (EPA 8260B)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0057 - 5035A					**Prepared: 04/06/2023 09:00**						
Method Blank (B3D0057-BLK1)					**Analyzed: 04/06/2023 16:07**						
Acetone	ND	25.0	50.0	ug/kg							
Benzene	ND	0.510	1.00	ug/kg							
Bromobenzene (Phenyl bromide)	ND	0.400	5.00	ug/kg							
Bromochloromethane	ND	0.500	5.00	ug/kg							
Bromodichloromethane	ND	0.870	5.00	ug/kg							
Bromoform (Tribromomethane)	ND	0.610	5.00	ug/kg							
Bromomethane (Methyl bromide)	ND	3.77	10.0	ug/kg							
2-Butanone (MEK)	ND	25.0	50.0	ug/kg							
n-Butylbenzene	ND	1.32	5.00	ug/kg							
sec-Butylbenzene	ND	0.340	5.00	ug/kg							
tert-Butylbenzene	ND	0.350	5.00	ug/kg							
Carbon Disulfide	ND	0.700	5.00	ug/kg							
Carbon tetrachloride	ND	0.460	5.00	ug/kg							
Chlorobenzene	ND	0.380	5.00	ug/kg							
Chloroethane	ND	1.77	5.00	ug/kg							
2-Chloroethyl vinyl ether	ND	1.53	5.00	ug/kg							
Chloroform (Trichloromethane)	ND	0.460	5.00	ug/kg							
Chloromethane (Methyl chloride)	ND	0.760	5.00	ug/kg							
2-Chlorotoluene	ND	5.00	10.0	ug/kg							
4-Chlorotoluene	ND	0.470	5.00	ug/kg							
1,2-Dibromo-3-chloropropane (DBCP)	ND	4.32	10.0	ug/kg							
Dibromochloromethane	ND	0.320	5.00	ug/kg							
1,2-Dibromoethane (EDB)	ND	0.320	5.00	ug/kg							
Dibromomethane	ND	0.280	5.00	ug/kg							
1,2-Dichlorobenzene	ND	0.820	5.00	ug/kg							
1,3-Dichlorobenzene	ND	0.410	5.00	ug/kg							
1,4-Dichlorobenzene	ND	1.09	5.00	ug/kg							
Dichlorodifluoromethane	ND	1.02	5.00	ug/kg							
1,1-Dichloroethane	ND	1.48	5.00	ug/kg							
1,2-Dichloroethane (EDC)	ND	0.590	5.00	ug/kg							
1,1-Dichloroethene	ND	0.710	5.00	ug/kg							
cis-1,2-Dichloroethene	ND	0.670	5.00	ug/kg							
trans-1,2-Dichloroethene	ND	0.760	5.00	ug/kg							
1,2-Dichloropropane	ND	0.380	5.00	ug/kg							
1,3-Dichloropropane	ND	5.00	10.0	ug/kg							
2,2-Dichloropropane	ND	5.00	10.0	ug/kg							
1,1-Dichloropropene	ND	5.00	10.0	ug/kg							
cis-1,3-Dichloropropene	ND	0.360	5.00	ug/kg							
trans-1,3-Dichloropropene	ND	0.360	5.00	ug/kg							
Ethylbenzene	ND	0.340	1.00	ug/kg							
Hexachlorobutadiene	ND	0.860	5.00	ug/kg							
2-Hexanone	ND	25.0	50.0	ug/kg							

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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56

Quality Control Results

Volatile Organic Compounds (EPA 8260B)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0057 - 5035A (Continued)					**Prepared: 04/06/2023 09:00**						
Method Blank (B3D0057-BLK1)					**Analyzed: 04/06/2023 16:07**						
Iodomethane	ND	5.00	10.0	ug/kg							
Isopropylbenzene	ND	5.00	10.0	ug/kg							
p-Isopropyltoluene	ND	5.00	10.0	ug/kg							
4-Methyl-2-pentanone (MIBK)	ND	1.11	5.00	ug/kg							
Methyl-tert-butyl ether (MTBE)	ND	0.480	1.00	ug/kg							
Methylene chloride (DCM)	ND	2.00	50.0	ug/kg							
Naphthalene	ND	3.72	10.0	ug/kg							
n-Propylbenzene	ND	0.320	5.00	ug/kg							
Styrene	ND	0.380	5.00	ug/kg							
1,1,1,2-Tetrachloroethane	ND	0.370	5.00	ug/kg							
1,1,2,2-Tetrachloroethane	ND	0.780	5.00	ug/kg							
Tetrachloroethene	ND	0.430	5.00	ug/kg							
Toluene (Methyl benzene)	ND	0.360	1.00	ug/kg							
1,2,3-Trichlorobenzene	ND	5.00	10.0	ug/kg							
1,2,4-Trichlorobenzene	ND	1.31	5.00	ug/kg							
1,1,1-Trichloroethane	ND	0.490	5.00	ug/kg							
1,1,2-Trichloroethane	ND	0.380	5.00	ug/kg							
Trichloroethene	ND	0.430	5.00	ug/kg							
Trichlorofluoromethane	ND	0.470	5.00	ug/kg							
1,2,3-Trichloropropane	ND	0.640	5.00	ug/kg							
1,2,4-Trimethylbenzene	ND	5.00	10.0	ug/kg							
1,3,5-Trimethylbenzene	ND	5.00	10.0	ug/kg							
Vinyl Acetate	ND	25.0	50.0	ug/kg							
Vinyl chloride (Chloroethene)	ND	5.00	10.0	ug/kg							
o-Xylene	ND	0.360	1.00	ug/kg							
m,p-Xylenes	ND	2.00	20.0	ug/kg							
Surrogate: Bromofluorobenzene	*49.3*			*ug/kg*	*50.0*		*98.7*	*75-125*			
Surrogate: Dibromofluoromethane	*45.5*			*ug/kg*	*50.0*		*91.0*	*75-125*			
Surrogate: Toluene-d8	*48.6*			*ug/kg*	*50.0*		*97.1*	*75-125*			

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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56	

Quality Control Results

Volatile Organic Compounds (EPA 8260B)

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0057 - 5035A (Continued)				**Prepared: 04/06/2023 09:00**						
LCS (B3D0057-BS1)				**Analyzed: 04/06/2023 14:31**						
Benzene	44.7		ug/kg	50.0		89.4	75-125			
Bromobenzene (Phenyl bromide)	48.7		ug/kg	50.0		97.3	75-125			
Bromochloromethane	47.8		ug/kg	50.0		95.7	75-125			
Bromodichloromethane	50.9		ug/kg	50.0		102	75-125			
Bromoform (Tribromomethane)	51.3		ug/kg	50.0		103	75-125			
n-Butylbenzene	45.9		ug/kg	50.0		91.8	75-125			
sec-Butylbenzene	47.7		ug/kg	50.0		95.4	75-125			
tert-Butylbenzene	46.2		ug/kg	50.0		92.4	75-125			
Carbon tetrachloride	48.4		ug/kg	50.0		96.9	75-125			
Chlorobenzene	53.0		ug/kg	50.0		106	75-125			
Chloroethane	46.5		ug/kg	50.0		93.0	75-125			
Chloroform (Trichloromethane)	47.2		ug/kg	50.0		94.4	75-125			
2-Chlorotoluene	47.6		ug/kg	50.0		95.1	75-125			
4-Chlorotoluene	47.1		ug/kg	50.0		94.2	75-125			
1,2-Dibromo-3-chloropropane (DBCP)	48.2		ug/kg	50.0		96.5	75-125			
Dibromochloromethane	50.3		ug/kg	50.0		101	75-125			
1,2-Dibromoethane (EDB)	50.2		ug/kg	50.0		100	75-125			
Dibromomethane	51.1		ug/kg	50.0		102	75-125			
1,2-Dichlorobenzene	47.8		ug/kg	50.0		95.6	75-125			
1,3-Dichlorobenzene	52.2		ug/kg	50.0		104	75-125			
1,4-Dichlorobenzene	46.0		ug/kg	50.0		92.0	75-125			
Dichlorodifluoromethane	47.3		ug/kg	50.0		94.5	75-125			
1,1-Dichloroethane	43.7		ug/kg	50.0		87.4	75-125			
1,2-Dichloroethane (EDC)	53.3		ug/kg	50.0		107	75-125			
1,1-Dichloroethene	46.1		ug/kg	50.0		92.3	75-125			
cis-1,2-Dichloroethene	47.8		ug/kg	50.0		95.5	75-125			
trans-1,2-Dichloroethene	44.8		ug/kg	50.0		89.6	75-125			
1,2-Dichloropropane	48.7		ug/kg	50.0		97.3	75-125			
1,3-Dichloropropane	52.9		ug/kg	50.0		106	75-125			
2,2-Dichloropropane	48.1		ug/kg	50.0		96.2	75-125			
1,1-Dichloropropene	43.8		ug/kg	50.0		87.6	75-125			
cis-1,3-Dichloropropene	50.2		ug/kg	50.0		100	75-125			
trans-1,3-Dichloropropene	50.7		ug/kg	50.0		101	75-125			
Ethylbenzene	49.5		ug/kg	50.0		99.1	75-125			
Hexachlorobutadiene	48.6		ug/kg	50.0		97.2	75-125			
Isopropylbenzene	48.7		ug/kg	50.0		97.5	75-125			
p-Isopropyltoluene	47.9		ug/kg	50.0		95.7	75-125			
Methyl-tert-butyl ether (MTBE)	43.5		ug/kg	50.0		87.0	75-125			
Methylene chloride (DCM)	76.2		ug/kg	50.0		152	75-125			BS
Naphthalene	49.0		ug/kg	50.0		97.9	75-125			
n-Propylbenzene	49.0		ug/kg	50.0		98.0	75-125			
Styrene	46.5		ug/kg	50.0		93.0	75-125			

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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56	

Quality Control Results

Volatile Organic Compounds (EPA 8260B)

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0057 - 5035A (Continued)				**Prepared: 04/06/2023 09:00**						
LCS (B3D0057-BS1)				**Analyzed: 04/06/2023 14:31**						
1,1,1,2-Tetrachloroethane	48.8		ug/kg	50.0		97.5	75-125			
1,1,2,2-Tetrachloroethane	51.4		ug/kg	50.0		103	75-125			
Tetrachloroethene	52.0		ug/kg	50.0		104	75-125			
Toluene (Methyl benzene)	49.8		ug/kg	50.0		99.6	75-125			
1,2,3-Trichlorobenzene	48.1		ug/kg	50.0		96.3	75-125			
1,2,4-Trichlorobenzene	48.7		ug/kg	50.0		97.5	75-125			
1,1,1-Trichloroethane	47.1		ug/kg	50.0		94.2	75-125			
1,1,2-Trichloroethane	52.2		ug/kg	50.0		104	75-125			
Trichloroethene	50.1		ug/kg	50.0		100	75-125			
Trichlorofluoromethane	53.4		ug/kg	50.0		107	75-125			
1,2,3-Trichloropropane	50.5		ug/kg	50.0		101	75-125			
1,2,4-Trimethylbenzene	47.7		ug/kg	50.0		95.3	75-125			
1,3,5-Trimethylbenzene	47.9		ug/kg	50.0		95.8	75-125			
Vinyl chloride (Chloroethene)	49.2		ug/kg	50.0		98.3	75-125			
o-Xylene	48.2		ug/kg	50.0		96.3	75-125			
m,p-Xylenes	97.5		ug/kg	100		97.5	75-125			
Surrogate: Bromofluorobenzene	*49.5*		*ug/kg*	*50.0*		*99.0*	*75-125*			
Surrogate: Dibromofluoromethane	*45.0*		*ug/kg*	*50.0*		*90.0*	*75-125*			
Surrogate: Toluene-d8	*50.0*		*ug/kg*	*50.0*		*100*	*75-125*			
LCSD (B3D0057-BSD1)				**Analyzed: 04/06/2023 15:03**						
Benzene	46.0		ug/kg	50.0		92.0	75-125	2.82	20	
Bromobenzene (Phenyl bromide)	48.6		ug/kg	50.0		97.3	75-125	0.0617	20	
Bromochloromethane	48.0		ug/kg	50.0		96.0	75-125	0.313	20	
Bromodichloromethane	50.7		ug/kg	50.0		101	75-125	0.374	20	
Bromoform (Tribromomethane)	50.6		ug/kg	50.0		101	75-125	1.45	20	
n-Butylbenzene	45.8		ug/kg	50.0		91.6	75-125	0.218	20	
sec-Butylbenzene	48.1		ug/kg	50.0		96.1	75-125	0.815	20	
tert-Butylbenzene	48.3		ug/kg	50.0		96.5	75-125	4.40	20	
Carbon tetrachloride	48.5		ug/kg	50.0		96.9	75-125	0.0826	20	
Chlorobenzene	53.3		ug/kg	50.0		107	75-125	0.583	20	
Chloroethane	46.1		ug/kg	50.0		92.2	75-125	0.907	20	
Chloroform (Trichloromethane)	47.5		ug/kg	50.0		95.0	75-125	0.676	20	
2-Chlorotoluene	47.7		ug/kg	50.0		95.4	75-125	0.357	20	
4-Chlorotoluene	47.3		ug/kg	50.0		94.5	75-125	0.382	20	
1,2-Dibromo-3-chloropropane (DBCP)	46.4		ug/kg	50.0		92.7	75-125	3.95	20	
Dibromochloromethane	50.3		ug/kg	50.0		101	75-125	0.0597	20	
1,2-Dibromoethane (EDB)	49.3		ug/kg	50.0		98.7	75-125	1.83	20	
Dibromomethane	50.8		ug/kg	50.0		102	75-125	0.569	20	
1,2-Dichlorobenzene	48.1		ug/kg	50.0		96.2	75-125	0.688	20	
1,3-Dichlorobenzene	52.2		ug/kg	50.0		104	75-125	0.0574	20	
1,4-Dichlorobenzene	46.1		ug/kg	50.0		92.3	75-125	0.326	20	

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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56	

Quality Control Results

Volatile Organic Compounds (EPA 8260B)

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0057 - 5035A (Continued)				**Prepared: 04/06/2023 09:00**						
LCSD (B3D0057-BSD1)				**Analyzed: 04/06/2023 15:03**						
Dichlorodifluoromethane	46.1		ug/kg	50.0		92.1	75-125	2.57	20	
1,1-Dichloroethane	43.7		ug/kg	50.0		87.5	75-125	0.114	20	
1,2-Dichloroethane (EDC)	53.1		ug/kg	50.0		106	75-125	0.489	20	
1,1-Dichloroethene	46.4		ug/kg	50.0		92.7	75-125	0.476	20	
cis-1,2-Dichloroethene	47.8		ug/kg	50.0		95.6	75-125	0.0628	20	
trans-1,2-Dichloroethene	44.9		ug/kg	50.0		89.8	75-125	0.245	20	
1,2-Dichloropropane	49.2		ug/kg	50.0		98.5	75-125	1.14	20	
1,3-Dichloropropane	52.8		ug/kg	50.0		106	75-125	0.303	20	
2,2-Dichloropropane	48.0		ug/kg	50.0		95.9	75-125	0.271	20	
1,1-Dichloropropene	44.0		ug/kg	50.0		87.9	75-125	0.387	20	
cis-1,3-Dichloropropene	50.1		ug/kg	50.0		100	75-125	0.239	20	
trans-1,3-Dichloropropene	50.4		ug/kg	50.0		101	75-125	0.514	20	
Ethylbenzene	49.8		ug/kg	50.0		99.6	75-125	0.523	20	
Hexachlorobutadiene	48.7		ug/kg	50.0		97.4	75-125	0.226	20	
Isopropylbenzene	48.8		ug/kg	50.0		97.6	75-125	0.123	20	
p-Isopropyltoluene	48.1		ug/kg	50.0		96.2	75-125	0.521	20	
Methyl-tert-butyl ether (MTBE)	43.3		ug/kg	50.0		86.5	75-125	0.599	20	
Methylene chloride (DCM)	76.5		ug/kg	50.0		153	75-125	0.288	20	BS
Naphthalene	48.4		ug/kg	50.0		96.8	75-125	1.15	20	
n-Propylbenzene	49.5		ug/kg	50.0		98.9	75-125	0.995	20	
Styrene	46.4		ug/kg	50.0		92.9	75-125	0.151	20	
1,1,1,2-Tetrachloroethane	49.2		ug/kg	50.0		98.4	75-125	0.878	20	
1,1,2,2-Tetrachloroethane	50.6		ug/kg	50.0		101	75-125	1.55	20	
Tetrachloroethene	51.8		ug/kg	50.0		104	75-125	0.482	20	
Toluene (Methyl benzene)	50.7		ug/kg	50.0		101	75-125	1.69	20	
1,2,3-Trichlorobenzene	48.0		ug/kg	50.0		95.9	75-125	0.333	20	
1,2,4-Trichlorobenzene	48.9		ug/kg	50.0		97.7	75-125	0.287	20	
1,1,1-Trichloroethane	47.5		ug/kg	50.0		95.0	75-125	0.803	20	
1,1,2-Trichloroethane	51.2		ug/kg	50.0		102	75-125	1.88	20	
Trichloroethene	50.6		ug/kg	50.0		101	75-125	1.03	20	
Trichlorofluoromethane	52.3		ug/kg	50.0		105	75-125	2.10	20	
1,2,3-Trichloropropane	49.8		ug/kg	50.0		99.6	75-125	1.34	20	
1,2,4-Trimethylbenzene	48.2		ug/kg	50.0		96.5	75-125	1.21	20	
1,3,5-Trimethylbenzene	48.4		ug/kg	50.0		96.8	75-125	1.12	20	
Vinyl chloride (Chloroethene)	48.2		ug/kg	50.0		96.4	75-125	2.03	20	
o-Xylene	48.5		ug/kg	50.0		97.0	75-125	0.683	20	
m,p-Xylenes	98.0		ug/kg	100		98.0	75-125	0.573	20	
Surrogate: Bromofluorobenzene	*49.5*		*ug/kg*	*50.0*		*99.0*	*75-125*			
Surrogate: Dibromofluoromethane	*44.8*		*ug/kg*	*50.0*		*89.5*	*75-125*			
Surrogate: Toluene-d8	*49.3*		*ug/kg*	*50.0*		*98.7*	*75-125*			

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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56	

Quality Control Results

Volatile Organic Compounds (EPA 8260B)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0057 - 5035A (Continued)					**Prepared: 04/06/2023 09:00**						
Matrix Spike (B3D0057-MS1)		**Source: BED0011-16**			**Analyzed: 04/06/2023 20:55**						
Acetone	143			ug/kg	50.0	151	NR	75-125			M
Benzene	52.0			ug/kg	50.0	0.469	103	75-125			
Bromobenzene (Phenyl bromide)	46.6			ug/kg	50.0	0.00	93.2	75-125			
Bromochloromethane	50.4			ug/kg	50.0	0.00	101	75-125			
Bromodichloromethane	52.8			ug/kg	50.0	0.00	106	75-125			
Bromoform (Tribromomethane)	41.6			ug/kg	50.0	0.00	83.2	75-125			
2-Butanone (MEK)	8.37			ug/kg	50.0	0.00	16.7	75-125			M
n-Butylbenzene	42.9			ug/kg	50.0	0.00	85.8	75-125			
sec-Butylbenzene	41.7			ug/kg	50.0	0.00	83.5	75-125			
tert-Butylbenzene	46.4			ug/kg	50.0	0.00	92.7	75-125			
Carbon tetrachloride	55.8			ug/kg	50.0	0.00	112	75-125			
Chlorobenzene	53.3			ug/kg	50.0	0.00	107	75-125			
Chloroethane	63.5			ug/kg	50.0	0.00	127	75-125			M
Chloroform (Trichloromethane)	54.4			ug/kg	50.0	0.00	109	75-125			
2-Chlorotoluene	45.9			ug/kg	50.0	0.00	91.7	75-125			
4-Chlorotoluene	45.4			ug/kg	50.0	0.00	90.8	75-125			
1,2-Dibromo-3-chloropropane (DBCP)	37.1			ug/kg	50.0	0.00	74.3	75-125			M
Dibromochloromethane	45.9			ug/kg	50.0	0.00	91.8	75-125			
1,2-Dibromoethane (EDB)	41.5			ug/kg	50.0	0.00	83.0	75-125			
Dibromomethane	47.8			ug/kg	50.0	0.00	95.6	75-125			
1,2-Dichlorobenzene	46.8			ug/kg	50.0	0.00	93.5	75-125			
1,3-Dichlorobenzene	43.6			ug/kg	50.0	0.00	87.2	75-125			
1,4-Dichlorobenzene	47.8			ug/kg	50.0	0.00	95.7	75-125			
Dichlorodifluoromethane	47.6			ug/kg	50.0	0.00	95.1	75-125			
1,1-Dichloroethane	51.8			ug/kg	50.0	0.00	104	75-125			
1,2-Dichloroethane (EDC)	54.1			ug/kg	50.0	0.00	108	75-125			
1,1-Dichloroethene	55.7			ug/kg	50.0	0.00	111	75-125			
cis-1,2-Dichloroethene	54.9			ug/kg	50.0	0.00	110	75-125			
trans-1,2-Dichloroethene	52.9			ug/kg	50.0	0.00	106	75-125			
1,2-Dichloropropane	53.0			ug/kg	50.0	0.00	106	75-125			
1,3-Dichloropropane	49.4			ug/kg	50.0	0.00	98.9	75-125			
2,2-Dichloropropane	51.9			ug/kg	50.0	0.00	104	75-125			
1,1-Dichloropropene	50.1			ug/kg	50.0	0.00	100	75-125			
cis-1,3-Dichloropropene	42.6			ug/kg	50.0	0.00	85.2	75-125			
trans-1,3-Dichloropropene	42.1			ug/kg	50.0	0.00	84.2	75-125			
Ethylbenzene	51.4			ug/kg	50.0	0.00	103	75-125			
Hexachlorobutadiene	26.8			ug/kg	50.0	0.00	53.5	75-125			M
2-Hexanone	21.2			ug/kg	50.0	0.00	42.5	75-125			M
Iodomethane	65.3			ug/kg	50.0	0.00	131	75-125			M
Isopropylbenzene	51.4			ug/kg	50.0	0.00	103	75-125			
p-Isopropyltoluene	41.1			ug/kg	50.0	0.00	82.2	75-125			
4-Methyl-2-pentanone (MIBK)	28.6			ug/kg	50.0	0.00	57.2	75-125			M

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AMERICAN ENVIRONMENTAL TESTING LABORATORY, LLC
2840 North Naomi Street, Burbank, CA 91504 • ELAP# 1541 • LACSD# 10181
Telephone (888) 288-AETL • (818) 845-8200 • www.aetlab.com
A KYZER LABS COMPANY

Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56

Quality Control Results

Volatile Organic Compounds (EPA 8260B)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0057 - 5035A (Continued)					**Prepared: 04/06/2023 09:00**						
Matrix Spike (B3D0057-MS1)		**Source: BED0011-16**			**Analyzed: 04/06/2023 20:55**						
Methyl-tert-butyl ether (MTBE)	41.7			ug/kg	50.0	0.00	83.5	75-125			
Methylene chloride (DCM)	106			ug/kg	50.0	0.00	213	75-125			M
Naphthalene	25.5			ug/kg	50.0	0.00	51.0	75-125			M
n-Propylbenzene	48.5			ug/kg	50.0	0.00	97.0	75-125			
Styrene	47.0			ug/kg	50.0	0.00	94.1	75-125			
1,1,1,2-Tetrachloroethane	53.6			ug/kg	50.0	0.00	107	75-125			
1,1,2,2-Tetrachloroethane	39.6			ug/kg	50.0	0.00	79.1	75-125			
Tetrachloroethene	53.8			ug/kg	50.0	0.00	108	75-125			
Toluene (Methyl benzene)	55.3			ug/kg	50.0	2.73	105	75-125			
1,2,3-Trichlorobenzene	23.7			ug/kg	50.0	0.00	47.4	75-125			M
1,2,4-Trichlorobenzene	28.2			ug/kg	50.0	0.00	56.4	75-125			M
1,1,1-Trichloroethane	56.0			ug/kg	50.0	0.00	112	75-125			
1,1,2-Trichloroethane	48.2			ug/kg	50.0	0.00	96.4	75-125			
Trichloroethene	58.3			ug/kg	50.0	0.00	117	75-125			
Trichlorofluoromethane	51.2			ug/kg	50.0	0.00	102	75-125			
1,2,3-Trichloropropane	42.8			ug/kg	50.0	0.00	85.6	75-125			
1,2,4-Trimethylbenzene	45.6			ug/kg	50.0	0.00	91.1	75-125			
1,3,5-Trimethylbenzene	46.4			ug/kg	50.0	0.00	92.7	75-125			
Vinyl chloride (Chloroethene)	47.7			ug/kg	50.0	0.00	95.3	75-125			
o-Xylene	53.0			ug/kg	50.0	0.00	106	75-125			
m,p-Xylenes	109			ug/kg	100	0.00	109	75-125			
Surrogate: Bromofluorobenzene	*45.1*			*ug/kg*	*50.0*		*90.2*	*75-125*			
Surrogate: Dibromofluoromethane	*44.6*			*ug/kg*	*50.0*		*89.3*	*75-125*			
Surrogate: Toluene-d8	*49.2*			*ug/kg*	*50.0*		*98.3*	*75-125*			
Matrix Spike Dup (B3D0057-MSD1)		**Source: BED0011-16**			**Analyzed: 04/06/2023 21:28**						
Acetone	138			ug/kg	50.0	151	NR	75-125	3.06	20	M
Benzene	48.6			ug/kg	50.0	0.469	96.2	75-125	6.75	20	
Bromobenzene (Phenyl bromide)	43.7			ug/kg	50.0	0.00	87.4	75-125	6.40	20	
Bromochloromethane	47.7			ug/kg	50.0	0.00	95.4	75-125	5.45	20	
Bromodichloromethane	50.8			ug/kg	50.0	0.00	102	75-125	3.90	20	
Bromoform (Tribromomethane)	40.6			ug/kg	50.0	0.00	81.2	75-125	2.34	20	
2-Butanone (MEK)	7.32			ug/kg	50.0	0.00	14.6	75-125		20	M
n-Butylbenzene	39.3			ug/kg	50.0	0.00	78.6	75-125	8.76	20	
sec-Butylbenzene	42.1			ug/kg	50.0	0.00	84.2	75-125	0.835	20	
tert-Butylbenzene	43.0			ug/kg	50.0	0.00	86.0	75-125	7.52	20	
Carbon tetrachloride	51.4			ug/kg	50.0	0.00	103	75-125	8.23	20	
Chlorobenzene	50.8			ug/kg	50.0	0.00	102	75-125	4.76	20	
Chloroethane	59.4			ug/kg	50.0	0.00	119	75-125	6.69	20	
Chloroform (Trichloromethane)	50.6			ug/kg	50.0	0.00	101	75-125	7.32	20	
Chloromethane (Methyl chloride)	36.2			ug/kg	50.0	0.00	72.4	75-125	4.03	20	M
2-Chlorotoluene	42.8			ug/kg	50.0	0.00	85.6	75-125	6.95	20	

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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56	

Quality Control Results

Volatile Organic Compounds (EPA 8260B)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0057 - 5035A (Continued)					**Prepared: 04/06/2023 09:00**						
Matrix Spike Dup (B3D0057-MSD1)		**Source: BED0011-16**			**Analyzed: 04/06/2023 21:28**						
4-Chlorotoluene	42.4			ug/kg	50.0	0.00	84.8	75-125	6.81	20	
1,2-Dibromo-3-chloropropane (DBCP)	33.6			ug/kg	50.0	0.00	67.2	75-125	9.95	20	M
Dibromochloromethane	45.1			ug/kg	50.0	0.00	90.1	75-125	1.80	20	
1,2-Dibromoethane (EDB)	41.3			ug/kg	50.0	0.00	82.6	75-125	0.459	20	
Dibromomethane	47.3			ug/kg	50.0	0.00	94.6	75-125	1.03	20	
1,2-Dichlorobenzene	40.6			ug/kg	50.0	0.00	81.2	75-125	14.1	20	
1,3-Dichlorobenzene	42.2			ug/kg	50.0	0.00	84.4	75-125	3.36	20	
1,4-Dichlorobenzene	40.2			ug/kg	50.0	0.00	80.5	75-125	17.3	20	
Dichlorodifluoromethane	46.1			ug/kg	50.0	0.00	92.1	75-125	3.20	20	
1,1-Dichloroethane	48.3			ug/kg	50.0	0.00	96.6	75-125	6.96	20	
1,2-Dichloroethane (EDC)	52.6			ug/kg	50.0	0.00	105	75-125	2.79	20	
1,1-Dichloroethene	51.9			ug/kg	50.0	0.00	104	75-125	7.16	20	
cis-1,2-Dichloroethene	51.1			ug/kg	50.0	0.00	102	75-125	7.12	20	
trans-1,2-Dichloroethene	49.1			ug/kg	50.0	0.00	98.2	75-125	7.45	20	
1,2-Dichloropropane	51.0			ug/kg	50.0	0.00	102	75-125	3.86	20	
1,3-Dichloropropane	48.7			ug/kg	50.0	0.00	97.3	75-125	1.57	20	
2,2-Dichloropropane	48.0			ug/kg	50.0	0.00	96.1	75-125	7.70	20	
1,1-Dichloropropene	47.0			ug/kg	50.0	0.00	93.9	75-125	6.55	20	
cis-1,3-Dichloropropene	41.6			ug/kg	50.0	0.00	83.3	75-125	2.26	20	
trans-1,3-Dichloropropene	40.8			ug/kg	50.0	0.00	81.6	75-125	3.11	20	
Ethylbenzene	49.1			ug/kg	50.0	0.00	98.2	75-125	4.58	20	
Hexachlorobutadiene	29.4			ug/kg	50.0	0.00	58.8	75-125	9.30	20	M
2-Hexanone	20.2			ug/kg	50.0	0.00	40.4	75-125		20	M
Isopropylbenzene	47.6			ug/kg	50.0	0.00	95.1	75-125	7.68	20	
p-Isopropyltoluene	41.0			ug/kg	50.0	0.00	82.0	75-125	0.171	20	
4-Methyl-2-pentanone (MIBK)	28.3			ug/kg	50.0	0.00	56.6	75-125	1.16	20	M
Methyl-tert-butyl ether (MTBE)	40.6			ug/kg	50.0	0.00	81.2	75-125	2.70	20	
Methylene chloride (DCM)	98.0			ug/kg	50.0	0.00	196	75-125	8.18	20	M
Naphthalene	27.1			ug/kg	50.0	0.00	54.1	75-125	5.94	20	M
n-Propylbenzene	45.8			ug/kg	50.0	0.00	91.5	75-125	5.83	20	
Styrene	42.2			ug/kg	50.0	0.00	84.5	75-125	10.8	20	
1,1,1,2-Tetrachloroethane	48.5			ug/kg	50.0	0.00	97.1	75-125	9.89	20	
1,1,2,2-Tetrachloroethane	39.1			ug/kg	50.0	0.00	78.2	75-125	1.17	20	
Tetrachloroethene	51.9			ug/kg	50.0	0.00	104	75-125	3.67	20	
Toluene (Methyl benzene)	52.3			ug/kg	50.0	2.73	99.2	75-125	5.43	20	
1,2,3-Trichlorobenzene	25.4			ug/kg	50.0	0.00	50.7	75-125	6.77	20	M
1,2,4-Trichlorobenzene	28.7			ug/kg	50.0	0.00	57.5	75-125	1.93	20	M
1,1,1-Trichloroethane	51.9			ug/kg	50.0	0.00	104	75-125	7.67	20	
1,1,2-Trichloroethane	47.3			ug/kg	50.0	0.00	94.5	75-125	1.95	20	
Trichloroethene	54.5			ug/kg	50.0	0.00	109	75-125	6.76	20	
Trichlorofluoromethane	48.1			ug/kg	50.0	0.00	96.2	75-125	6.21	20	
1,2,3-Trichloropropane	42.0			ug/kg	50.0	0.00	83.9	75-125	1.91	20	

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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56

Quality Control Results

Volatile Organic Compounds (EPA 8260B)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0057 - 5035A (Continued)					**Prepared: 04/06/2023 09:00**						
Matrix Spike Dup (B3D0057-MSD1)		**Source: BED0011-16**			**Analyzed: 04/06/2023 21:28**						
1,2,4-Trimethylbenzene	43.4			ug/kg	50.0	0.00	86.7	75-125	4.90	20	
1,3,5-Trimethylbenzene	44.2			ug/kg	50.0	0.00	88.4	75-125	4.73	20	
Vinyl chloride (Chloroethene)	44.9			ug/kg	50.0	0.00	89.8	75-125	6.01	20	
o-Xylene	48.0			ug/kg	50.0	0.00	95.9	75-125	10.0	20	
m,p-Xylenes	99.8			ug/kg	100	0.00	99.8	75-125	8.96	20	
Surrogate: Bromofluorobenzene	*47.7*			*ug/kg*	*50.0*		*95.4*	*75-125*			
Surrogate: Dibromofluoromethane	*44.5*			*ug/kg*	*50.0*		*88.9*	*75-125*			
Surrogate: Toluene-d8	*49.4*			*ug/kg*	*50.0*		*98.9*	*75-125*			

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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56

Quality Control Results

TPH Gasoline Range (EPA 8015B TPH GRO)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0051 - 5035A					**Prepared: 04/06/2023 09:08**						
Method Blank (B3D0051-BLK1)					**Analyzed: 04/06/2023 10:15**						
TPH as Gasoline and Light HC. (C4-C12)	ND	0.116	0.200	mg/kg							
Surrogate: Bromofluorobenzene	*50.8*			*ug/kg*	*50.0*		*102*	*75-120*			

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100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56	

Quality Control Results

TPH Gasoline Range (EPA 8015B TPH GRO)

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0051 - 5035A (Continued)				**Prepared: 04/06/2023 09:08**						
LCS (B3D0051-BS1)				**Analyzed: 04/06/2023 09:08**						
TPH as Gasoline and Light HC. (C4-C12)	955		ug/kg	1000		95.5	75-125			
Surrogate: Bromofluorobenzene	*59.3*		*ug/kg*	*50.0*		*119*	*75-120*			
LCSD (B3D0051-BSD1)				**Analyzed: 04/06/2023 09:41**						
TPH as Gasoline and Light HC. (C4-C12)	961		ug/kg	1000		96.1	75-125	0.599	15	
Surrogate: Bromofluorobenzene	*55.1*		*ug/kg*	*50.0*		*110*	*75-120*			
Matrix Spike (B3D0051-MS1)		**Source: BED0011-16**		**Analyzed: 04/06/2023 16:52**						
TPH as Gasoline and Light HC. (C4-C12)	1020		ug/kg	1000	192	82.4	75-125			
Surrogate: Bromofluorobenzene	*57.1*		*ug/kg*	*50.0*		*114*	*75-120*			
Matrix Spike Dup (B3D0051-MSD1)		**Source: BED0011-16**		**Analyzed: 04/06/2023 17:25**						
TPH as Gasoline and Light HC. (C4-C12)	1020		ug/kg	1000	192	83.3	75-125	0.809	15	
Surrogate: Bromofluorobenzene	*54.9*		*ug/kg*	*50.0*		*110*	*75-120*			

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100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56

Quality Control Results

TPH Diesel Range (EPA 8015B TPH DRO/ORO)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0053 - 3550B					**Prepared: 04/06/2023 09:07**						
Method Blank (B3D0053-BLK1)					**Analyzed: 04/06/2023 14:36**						
TPH as Diesel (C13-C22)	ND	1.62	10.0	mg/kg							
TPH as Heavy Hydrocarbons (C23-40)	ND	1.62	10.0	mg/kg							
TPH Total as Diesel and Heavy HC (C13-C40)	ND	1.62	10.0	mg/kg							
Surrogate: Chlorobenzene	*106*			*mg/kg*	*100*		*106*	*75-125*			

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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56	

Quality Control Results

TPH Diesel Range (EPA 8015B TPH DRO/ORO)

Analyte	Result		RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0053 - 3550B (Continued)					**Prepared: 04/06/2023 09:07**						
LCS (B3D0053-BS1)					**Analyzed: 04/06/2023 11:58**						
TPH as Diesel (C13-C22)	2520		10.0	mg/kg	2500		101	75-125			
Surrogate: Chlorobenzene	*101*			*mg/kg*	*100*		*101*	*75-125*			
LCSD (B3D0053-BSD1)					**Analyzed: 04/06/2023 12:38**						
TPH as Diesel (C13-C22)	2560		10.0	mg/kg	2500		102	75-125	1.64	20	
Surrogate: Chlorobenzene	*108*			*mg/kg*	*100*		*108*	*75-125*			
Matrix Spike (B3D0053-MS1)		**Source: BED0018-01**			**Analyzed: 04/06/2023 13:17**						
TPH as Diesel (C13-C22)	2470	1.62	10.0	mg/kg	2400	ND	103	75-125			
Surrogate: Chlorobenzene	*108*			*mg/kg*	*100*		*108*	*75-125*			
Matrix Spike Dup (B3D0053-MSD1)		**Source: BED0018-01**			**Analyzed: 04/06/2023 13:57**						
TPH as Diesel (C13-C22)	2410	1.62	10.0	mg/kg	2400	ND	101	75-125	NA	20	
Surrogate: Chlorobenzene	*109*			*mg/kg*	*100*		*109*	*75-125*			

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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56

Quality Control Results

Polynuclear Aromatic Hydrocarbons (EPA 8270C-SIM)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0076 - 3550B					**Prepared: 04/07/2023 10:32**						
Method Blank (B3D0076-BLK1)					**Analyzed: 04/07/2023 14:42**						
2-Methylnaphthalene	ND	0.00200	0.0125	mg/kg							
Acenaphthene	ND	0.0108	0.0250	mg/kg							
Acenaphthylene	ND	0.00937	0.0250	mg/kg							
Anthracene	ND	0.0112	0.0250	mg/kg							
Benzo(a)anthracene	ND	0.00896	0.0250	mg/kg							
Benzo(a)pyrene	ND	0.0121	0.0250	mg/kg							
Benzo(b)fluoranthene	ND	0.00764	0.0250	mg/kg							
Benzo(g,h,i)perylene	ND	0.0132	0.0250	mg/kg							
Benzo(k)fluoranthene	ND	0.0119	0.0250	mg/kg							
Chrysene	ND	0.00851	0.0250	mg/kg							
Dibenzo(a,h)anthracene	ND	0.0168	0.0250	mg/kg							
Fluoranthene	ND	0.0122	0.0250	mg/kg							
Fluorene	ND	0.0116	0.0250	mg/kg							
Indeno(1,2,3-cd)pyrene	ND	0.0171	0.0250	mg/kg							
Naphthalene	ND	0.00936	0.0250	mg/kg							
Phenanthrene	ND	0.0103	0.0250	mg/kg							
Pyrene	ND	0.00981	0.0250	mg/kg							
Surrogate: p-Terphenyl-D14	*0.110*			*mg/kg*	*0.100*		*110*	*40-130*			

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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56

Quality Control Results

Polynuclear Aromatic Hydrocarbons (EPA 8270C-SIM)

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0076 - 3550B (Continued)				**Prepared: 04/07/2023 10:32**						
LCS (B3D0076-BS1)				**Analyzed: 04/07/2023 12:33**						
2-Methylnaphthalene	0.268	0.0125	mg/kg	0.250		107	40-150			
Acenaphthene	0.617	0.0250	mg/kg	0.500		123	40-150			
Acenaphthylene	1.08	0.0250	mg/kg	1.00		108	40-150			
Anthracene	0.0560	0.0250	mg/kg	0.0500		112	40-150			
Benzo(a)anthracene	0.0390	0.0250	mg/kg	0.0500		78.0	40-150			
Benzo(a)pyrene	0.0565	0.0250	mg/kg	0.0500		113	40-150			
Benzo(b)fluoranthene	0.0765	0.0250	mg/kg	0.100		76.5	40-150			
Benzo(g,h,i)perylene	0.102	0.0250	mg/kg	0.100		102	40-150			
Benzo(k)fluoranthene	0.0720	0.0250	mg/kg	0.0500		144	40-150			
Chrysene	0.0660	0.0250	mg/kg	0.0500		132	40-150			
Dibenzo(a,h)anthracene	0.0905	0.0250	mg/kg	0.100		90.5	40-150			
Fluoranthene	0.0845	0.0250	mg/kg	0.100		84.5	40-150			
Fluorene	0.118	0.0250	mg/kg	0.100		118	40-150			
Indeno(1,2,3-cd)pyrene	0.0535	0.0250	mg/kg	0.0500		107	40-150			
Naphthalene	0.559	0.0250	mg/kg	0.500		112	40-150			
Phenanthrene	0.0390	0.0250	mg/kg	0.0500		78.0	40-150			
Pyrene	0.0745	0.0250	mg/kg	0.0500		149	40-150			
Surrogate: p-Terphenyl-D14	*0.142*		*mg/kg*	*0.100*		*142*	*40-150*			
LCSD (B3D0076-BSD1)				**Analyzed: 04/07/2023 13:06**						
2-Methylnaphthalene	0.259	0.0125	mg/kg	0.250		104	40-150	3.23	30	
Acenaphthene	0.621	0.0250	mg/kg	0.500		124	40-150	0.646	30	
Acenaphthylene	1.10	0.0250	mg/kg	1.00		110	40-150	1.84	30	
Anthracene	0.0465	0.0250	mg/kg	0.0500		93.0	40-150	18.5	30	
Benzo(a)anthracene	0.0440	0.0250	mg/kg	0.0500		88.0	40-150	12.0	30	
Benzo(a)pyrene	0.0565	0.0250	mg/kg	0.0500		113	40-150	0.00	30	
Benzo(b)fluoranthene	0.0735	0.0250	mg/kg	0.100		73.5	40-150	4.00	30	
Benzo(g,h,i)perylene	0.112	0.0250	mg/kg	0.100		112	40-150	8.86	30	
Benzo(k)fluoranthene	0.0740	0.0250	mg/kg	0.0500		148	40-150	2.74	30	
Chrysene	0.0640	0.0250	mg/kg	0.0500		128	40-150	3.08	30	
Dibenzo(a,h)anthracene	0.110	0.0250	mg/kg	0.100		110	40-150	19.5	30	
Fluoranthene	0.0845	0.0250	mg/kg	0.100		84.5	40-150	0.00	30	
Fluorene	0.115	0.0250	mg/kg	0.100		115	40-150	3.00	30	
Indeno(1,2,3-cd)pyrene	0.0640	0.0250	mg/kg	0.0500		128	40-150	17.9	30	
Naphthalene	0.568	0.0250	mg/kg	0.500		114	40-150	1.69	30	
Phenanthrene	0.0375	0.0250	mg/kg	0.0500		75.0	40-150	3.92	30	
Pyrene	0.0695	0.0250	mg/kg	0.0500		139	40-150	6.94	30	
Surrogate: p-Terphenyl-D14	*0.144*		*mg/kg*	*0.100*		*144*	*40-150*			

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100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56

Quality Control Results

Polynuclear Aromatic Hydrocarbons (EPA 8270C-SIM)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0076 - 3550B (Continued)					**Prepared: 04/07/2023 10:32**						
Matrix Spike (B3D0076-MS1)		**Source: BED0011-29**			**Analyzed: 04/07/2023 13:38**						
2-Methylnaphthalene	0.171	0.00199	0.0124	mg/kg	0.248	ND	68.8	40-150			
Acenaphthene	0.470	0.0108	0.0248	mg/kg	0.497	ND	94.6	40-150			
Acenaphthylene	0.862	0.00931	0.0248	mg/kg	0.994	ND	86.8	40-150			
Anthracene	0.0283	0.0111	0.0248	mg/kg	0.0497	ND	57.0	40-150			
Benzo(a)anthracene	0.0303	0.00890	0.0248	mg/kg	0.0497	ND	61.0	40-150			
Benzo(a)pyrene	0.0293	0.0120	0.0248	mg/kg	0.0497	ND	59.0	40-150			
Benzo(b)fluoranthene	0.0392	0.00759	0.0248	mg/kg	0.0994	ND	39.5	40-150			M
Benzo(g,h,i)perylene	0.0427	0.0131	0.0248	mg/kg	0.0994	ND	43.0	40-150			
Benzo(k)fluoranthene	0.0442	0.0118	0.0248	mg/kg	0.0497	ND	89.0	40-150			
Chrysene	0.0537	0.00846	0.0248	mg/kg	0.0497	ND	108	40-150			
Dibenzo(a,h)anthracene	0.0437	0.0167	0.0248	mg/kg	0.0994	ND	44.0	40-150			
Fluoranthene	0.0601	0.0121	0.0248	mg/kg	0.0994	ND	60.5	40-150			
Fluorene	0.0800	0.0115	0.0248	mg/kg	0.0994	ND	80.5	40-150			
Indeno(1,2,3-cd)pyrene	0.0303	0.0169	0.0248	mg/kg	0.0497	ND	61.0	40-150			
Naphthalene	0.410	0.00930	0.0248	mg/kg	0.497	ND	82.6	40-150			
Phenanthrene	0.0253	0.0103	0.0248	mg/kg	0.0497	ND	51.0	40-150			
Pyrene	0.0671	0.00975	0.0248	mg/kg	0.0497	ND	135	40-150			
Surrogate: p-Terphenyl-D14	*0.0859*			*mg/kg*	*0.0994*		*86.5*	*40-150*			
Matrix Spike Dup (B3D0076-MSD1)		**Source: BED0011-29**			**Analyzed: 04/07/2023 14:10**						
2-Methylnaphthalene	0.165	0.00199	0.0124	mg/kg	0.249	ND	66.2	40-150	NA	30	
Acenaphthene	0.458	0.0108	0.0249	mg/kg	0.497	ND	92.1	40-150	NA	30	
Acenaphthylene	0.833	0.00932	0.0249	mg/kg	0.995	ND	83.8	40-150	NA	30	
Anthracene	0.0323	0.0112	0.0249	mg/kg	0.0497	ND	65.0	40-150	NA	30	
Benzo(a)anthracene	0.0264	0.00891	0.0249	mg/kg	0.0497	ND	53.0	40-150	NA	30	
Benzo(a)pyrene	0.0298	0.0121	0.0249	mg/kg	0.0497	ND	60.0	40-150	NA	30	
Benzo(b)fluoranthene	0.0373	0.00760	0.0249	mg/kg	0.0995	ND	37.5	40-150	NA	30	M
Benzo(g,h,i)perylene	0.0632	0.0131	0.0249	mg/kg	0.0995	ND	63.5	40-150	NA	30	R
Benzo(k)fluoranthene	0.0398	0.0118	0.0249	mg/kg	0.0497	ND	80.0	40-150	NA	30	
Chrysene	0.0492	0.00846	0.0249	mg/kg	0.0497	ND	99.0	40-150	NA	30	
Dibenzo(a,h)anthracene	0.0497	0.0167	0.0249	mg/kg	0.0995	ND	50.0	40-150	NA	30	
Fluoranthene	0.0567	0.0121	0.0249	mg/kg	0.0995	ND	57.0	40-150	NA	30	
Fluorene	0.0746	0.0115	0.0249	mg/kg	0.0995	ND	75.0	40-150	NA	30	
Indeno(1,2,3-cd)pyrene	0.0353	0.0170	0.0249	mg/kg	0.0497	ND	71.0	40-150	NA	30	
Naphthalene	0.397	0.00931	0.0249	mg/kg	0.497	ND	79.8	40-150	NA	30	
Phenanthrene	0.0239	0.0103	0.0249	mg/kg	0.0497	ND	48.0	40-150	NA	30	J
Pyrene	0.0562	0.00976	0.0249	mg/kg	0.0497	ND	113	40-150	NA	30	
Surrogate: p-Terphenyl-D14	*0.0746*			*mg/kg*	*0.0995*		*75.0*	*40-150*			

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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56

Quality Control Results

Organochlorine Pesticides (EPA 8081A)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0100 - 3550B					**Prepared: 04/10/2023 11:32**						
Method Blank (B3D0100-BLK1)					**Analyzed: 04/10/2023 20:21**						
Aldrin	ND	0.0900	1.00	ug/kg							
alpha-Chlordane	ND	0.121	1.00	ug/kg							
gamma-Chlordane	ND	0.114	1.00	ug/kg							
Chlordane (Total)	ND	1.00	2.00	ug/kg							
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	ND	0.0620	1.00	ug/kg							
alpha-Hexachlorocyclohexane (Alpha-BHC)	ND	0.0710	1.00	ug/kg							
beta-Hexachlorocyclohexane (Betta-BHC)	ND	0.217	1.00	ug/kg							
delta-Hexachlorocyclohexane (Delta-BHC)	ND	0.0880	1.00	ug/kg							
4,4'-DDD (DDD)	ND	0.0980	1.00	ug/kg							
4,4'-DDE (DDE)	ND	0.0930	1.00	ug/kg							
4,4'-DDT (DDT)	ND	0.235	1.00	ug/kg							
Dieldrin	ND	0.0950	1.00	ug/kg							
Endrin	ND	0.106	1.00	ug/kg							
Endrin aldehyde	ND	0.117	1.00	ug/kg							
Endrin ketone	ND	0.122	1.00	ug/kg							
Endosulfan 1	ND	0.115	1.00	ug/kg							
Endosulfan 11	ND	0.177	1.00	ug/kg							
Endosulfan sulfate	ND	0.0470	1.00	ug/kg							
Heptachlor	ND	0.206	1.00	ug/kg							
Heptachlor epoxide	ND	0.101	1.00	ug/kg							
Methoxychlor	ND	0.310	1.00	ug/kg							
Toxaphene	ND	4.10	50.0	ug/kg							
Surrogate: Decachlorobiphenyl	*24.5*			*ug/kg*	*25.0*		*98.0*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*18.5*			*ug/kg*	*25.0*		*74.0*	*30-150*			

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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56	

Quality Control Results

Organochlorine Pesticides (EPA 8081A)

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0100 - 3550B (Continued)				**Prepared: 04/10/2023 11:32**						
LCS (B3D0100-BS1)				**Analyzed: 04/10/2023 18:56**						
Aldrin	15.7	1.00	ug/kg	25.0		62.6	50-150			
alpha-Chlordane	21.1	1.00	ug/kg	25.0		84.2	50-150			
gamma-Chlordane	23.0	1.00	ug/kg	25.0		92.1	50-150			
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	18.3	1.00	ug/kg	25.0		73.1	50-150			
alpha-Hexachlorocyclohexane (Alpha-BHC)	16.3	1.00	ug/kg	25.0		65.0	50-150			
beta-Hexachlorocyclohexane (Betta-BHC)	22.5	1.00	ug/kg	25.0		90.1	50-150			
delta-Hexachlorocyclohexane (Delta-BHC)	23.9	1.00	ug/kg	25.0		95.6	50-150			
4,4'-DDD (DDD)	29.5	1.00	ug/kg	25.0		118	50-150			
4,4'-DDE (DDE)	24.8	1.00	ug/kg	25.0		99.1	50-150			
4,4'-DDT (DDT)	20.5	1.00	ug/kg	25.0		82.1	50-150			
Dieldrin	22.3	1.00	ug/kg	25.0		89.3	50-150			
Endrin	19.2	1.00	ug/kg	25.0		76.7	50-150			
Endrin aldehyde	17.6	1.00	ug/kg	25.0		70.3	50-150			
Endrin ketone	22.8	1.00	ug/kg	25.0		91.2	50-150			
Endosulfan 1	19.4	1.00	ug/kg	25.0		77.8	50-150			
Endosulfan 11	20.1	1.00	ug/kg	25.0		80.3	50-150			
Endosulfan sulfate	21.9	1.00	ug/kg	25.0		87.6	50-150			
Heptachlor	21.1	1.00	ug/kg	25.0		84.3	50-150			
Heptachlor epoxide	21.1	1.00	ug/kg	25.0		84.3	50-150			
Methoxychlor	20.8	1.00	ug/kg	25.0		83.3	50-150			
Surrogate: Decachlorobiphenyl	*20.0*		*ug/kg*	*25.0*		*80.1*	*50-150*			
Surrogate: Tetrachloro-m-xylene	*9.46*		*ug/kg*	*25.0*		*37.8*	*50-150*			*S6*
LCS (B3D0100-BS2)				**Analyzed: 04/10/2023 19:30**						
Toxaphene	400	50.0	ug/kg	500		79.9	50-150			
Surrogate: Decachlorobiphenyl	*28.4*		*ug/kg*	*25.0*		*114*	*50-150*			
Surrogate: Tetrachloro-m-xylene	*33.2*		*ug/kg*	*25.0*		*133*	*50-150*			

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Telephone (888) 288-AETL • (818) 845-8200 • www.aetlab.com
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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56	

Quality Control Results

Organochlorine Pesticides (EPA 8081A)

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0100 - 3550B (Continued)				**Prepared: 04/10/2023 11:32**						
LCSD (B3D0100-BSD1)				**Analyzed: 04/10/2023 19:13**						
Aldrin	18.3	1.00	ug/kg	25.0		73.2	50-150	15.5	40	
alpha-Chlordane	22.6	1.00	ug/kg	25.0		90.6	50-150	7.27	40	
gamma-Chlordane	25.0	1.00	ug/kg	25.0		100	50-150	8.20	40	
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	21.6	1.00	ug/kg	25.0		86.6	50-150	16.8	40	
alpha-Hexachlorocyclohexane (Alpha-BHC)	20.4	1.00	ug/kg	25.0		81.6	50-150	22.6	40	
beta-Hexachlorocyclohexane (Betta-BHC)	25.2	1.00	ug/kg	25.0		101	50-150	11.2	40	
delta-Hexachlorocyclohexane (Delta-BHC)	25.8	1.00	ug/kg	25.0		103	50-150	7.74	40	
4,4'-DDD (DDD)	32.0	1.00	ug/kg	25.0		128	50-150	8.09	40	
4,4'-DDE (DDE)	26.6	1.00	ug/kg	25.0		106	50-150	7.02	40	
4,4'-DDT (DDT)	21.0	1.00	ug/kg	25.0		84.0	50-150	2.27	40	
Dieldrin	24.2	1.00	ug/kg	25.0		96.8	50-150	8.07	40	
Endrin	21.4	1.00	ug/kg	25.0		85.8	50-150	11.2	40	
Endrin aldehyde	19.9	1.00	ug/kg	25.0		79.4	50-150	12.2	40	
Endrin ketone	24.3	1.00	ug/kg	25.0		97.0	50-150	6.22	40	
Endosulfan 1	21.4	1.00	ug/kg	25.0		85.5	50-150	9.45	40	
Endosulfan 11	22.3	1.00	ug/kg	25.0		89.4	50-150	10.7	40	
Endosulfan sulfate	23.6	1.00	ug/kg	25.0		94.3	50-150	7.39	40	
Heptachlor	24.2	1.00	ug/kg	25.0		96.9	50-150	13.9	40	
Heptachlor epoxide	23.1	1.00	ug/kg	25.0		92.2	50-150	9.01	40	
Methoxychlor	20.7	1.00	ug/kg	25.0		83.0	50-150	0.396	40	
Surrogate: Decachlorobiphenyl	*21.2*		*ug/kg*	*25.0*		*84.9*	*50-150*			
Surrogate: Tetrachloro-m-xylene	*11.6*		*ug/kg*	*25.0*		*46.4*	*50-150*			*S6*
LCSD (B3D0100-BSD2)				**Analyzed: 04/10/2023 19:47**						
Toxaphene	459	50.0	ug/kg	500		91.7	50-150	13.8	40	
Surrogate: Decachlorobiphenyl	*32.7*		*ug/kg*	*25.0*		*131*	*50-150*			
Surrogate: Tetrachloro-m-xylene	*32.2*		*ug/kg*	*25.0*		*129*	*50-150*			

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100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56

Quality Control Results

Organochlorine Pesticides (EPA 8081A)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0100 - 3550B (Continued)					**Prepared: 04/10/2023 11:32**						
Matrix Spike (B3D0100-MS1)		**Source: BED0011-41**			**Analyzed: 04/11/2023 01:27**						
Aldrin	17.7	0.0900	1.00	ug/kg	25.0	ND	70.8	40-150			
alpha-Chlordane	18.1	0.121	1.00	ug/kg	25.0	ND	72.4	40-150			
gamma-Chlordane	20.3	0.114	1.00	ug/kg	25.0	ND	81.3	40-150			
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	17.7	0.0620	1.00	ug/kg	25.0	ND	70.8	40-150			
alpha-Hexachlorocyclohexane (Alpha-BHC)	19.4	0.0710	1.00	ug/kg	25.0	ND	77.6	40-150			
beta-Hexachlorocyclohexane (Betta-BHC)	18.8	0.217	1.00	ug/kg	25.0	ND	75.1	40-150			
delta-Hexachlorocyclohexane (Delta-BHC)	19.6	0.0880	1.00	ug/kg	25.0	ND	78.3	40-150			
4,4'-DDD (DDD)	25.0	0.0980	1.00	ug/kg	25.0	0.239	99.1	40-150			
4,4'-DDE (DDE)	26.7	0.0930	1.00	ug/kg	25.0	4.23	90.0	40-150			
4,4'-DDT (DDT)	19.9	0.235	1.00	ug/kg	25.0	1.23	74.8	40-150			
Dieldrin	19.3	0.0950	1.00	ug/kg	25.0	0.131	76.6	40-150			
Endrin	14.7	0.106	1.00	ug/kg	25.0	0.162	58.1	40-150			
Endrin aldehyde	16.4	0.117	1.00	ug/kg	25.0	ND	65.7	40-150			
Endrin ketone	19.3	0.122	1.00	ug/kg	25.0	ND	77.4	40-150			
Endosulfan 1	17.4	0.115	1.00	ug/kg	25.0	ND	69.6	40-150			
Endosulfan 11	17.8	0.177	1.00	ug/kg	25.0	ND	71.2	40-150			
Endosulfan sulfate	18.1	0.0470	1.00	ug/kg	25.0	ND	72.4	40-150			
Heptachlor	20.5	0.206	1.00	ug/kg	25.0	ND	82.1	40-150			
Heptachlor epoxide	18.2	0.101	1.00	ug/kg	25.0	ND	72.9	40-150			
Methoxychlor	18.1	0.310	1.00	ug/kg	25.0	ND	72.4	40-150			
Surrogate: Decachlorobiphenyl	*18.2*			*ug/kg*	*25.0*		*72.8*	*40-150*			
Surrogate: Tetrachloro-m-xylene	*16.4*			*ug/kg*	*25.0*		*65.6*	*40-150*			
Matrix Spike (B3D0100-MS2)		**Source: BED0011-41**			**Analyzed: 04/11/2023 02:01**						
Toxaphene	353	4.10	50.0	ug/kg	500	ND	70.6	40-150			
Surrogate: Decachlorobiphenyl	*27.8*			*ug/kg*	*25.0*		*111*	*40-150*			
Surrogate: Tetrachloro-m-xylene	*29.4*			*ug/kg*	*25.0*		*118*	*40-150*			

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100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56

Quality Control Results

Organochlorine Pesticides (EPA 8081A)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0100 - 3550B (Continued)					**Prepared: 04/10/2023 11:32**						
Matrix Spike Dup (B3D0100-MSD1)		**Source: BED0011-41**			**Analyzed: 04/11/2023 01:44**						
Aldrin	17.3	0.0900	1.00	ug/kg	25.0	ND	69.4	40-150	NA	40	
alpha-Chlordane	17.9	0.121	1.00	ug/kg	25.0	ND	71.7	40-150	NA	40	
gamma-Chlordane	20.1	0.114	1.00	ug/kg	25.0	ND	80.5	40-150	NA	40	
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	17.6	0.0620	1.00	ug/kg	25.0	ND	70.6	40-150	NA	40	
alpha-Hexachlorocyclohexane (Alpha-BHC)	17.0	0.0710	1.00	ug/kg	25.0	ND	68.0	40-150	NA	40	
beta-Hexachlorocyclohexane (Betta-BHC)	18.6	0.217	1.00	ug/kg	25.0	ND	74.4	40-150	NA	40	
delta-Hexachlorocyclohexane (Delta-BHC)	19.6	0.0880	1.00	ug/kg	25.0	ND	78.4	40-150	NA	40	
4,4'-DDD (DDD)	24.7	0.0980	1.00	ug/kg	25.0	0.239	98.0	40-150	1.12	40	
4,4'-DDE (DDE)	26.7	0.0930	1.00	ug/kg	25.0	4.23	89.8	40-150	0.138	40	
4,4'-DDT (DDT)	19.9	0.235	1.00	ug/kg	25.0	1.23	74.7	40-150	0.00493	40	
Dieldrin	19.2	0.0950	1.00	ug/kg	25.0	0.131	76.2	40-150	0.596	40	
Endrin	14.5	0.106	1.00	ug/kg	25.0	0.162	57.5	40-150	1.03	40	
Endrin aldehyde	16.3	0.117	1.00	ug/kg	25.0	ND	65.2	40-150	NA	40	
Endrin ketone	19.7	0.122	1.00	ug/kg	25.0	ND	78.7	40-150	NA	40	
Endosulfan 1	17.2	0.115	1.00	ug/kg	25.0	ND	68.8	40-150	NA	40	
Endosulfan 11	17.6	0.177	1.00	ug/kg	25.0	ND	70.5	40-150	NA	40	
Endosulfan sulfate	17.7	0.0470	1.00	ug/kg	25.0	ND	70.7	40-150	NA	40	
Heptachlor	19.6	0.206	1.00	ug/kg	25.0	ND	78.4	40-150	NA	40	
Heptachlor epoxide	18.1	0.101	1.00	ug/kg	25.0	ND	72.3	40-150	NA	40	
Methoxychlor	18.1	0.310	1.00	ug/kg	25.0	ND	72.7	40-150	NA	40	
Surrogate: Decachlorobiphenyl	*17.9*			*ug/kg*	*25.0*		*71.6*	*40-150*			
Surrogate: Tetrachloro-m-xylene	*16.3*			*ug/kg*	*25.0*		*65.3*	*40-150*			
Matrix Spike Dup (B3D0100-MSD2)		**Source: BED0011-41**			**Analyzed: 04/11/2023 02:18**						
Toxaphene	373	4.10	50.0	ug/kg	500	ND	74.5	40-150	NA	40	
Surrogate: Decachlorobiphenyl	*30.5*			*ug/kg*	*25.0*		*122*	*40-150*			
Surrogate: Tetrachloro-m-xylene	*31.0*			*ug/kg*	*25.0*		*124*	*40-150*			

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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56

Quality Control Results

PCBs (EPA 8082)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0068 - 3550B					**Prepared: 04/07/2023 08:15**						
Method Blank (B3D0068-BLK1)					**Analyzed: 04/07/2023 12:59**						
Aroclor-1016 (PCB-1016)	ND	11.6	25.0	ug/kg							
Aroclor-1221 (PCB-1221)	ND	8.11	25.0	ug/kg							
Aroclor-1232 (PCB-1232)	ND	15.2	25.0	ug/kg							
Aroclor-1242 (PCB-1242)	ND	5.25	25.0	ug/kg							
Aroclor-1248 (PCB-1248)	ND	11.0	25.0	ug/kg							
Aroclor-1254 (PCB-1254)	ND	11.9	25.0	ug/kg							
Aroclor-1260 (PCB-1260)	ND	6.02	25.0	ug/kg							
Aroclor-1262 (PCB-1262)	ND	20.0	50.0	ug/kg							
Aroclor-1268 (PCB-1268)	ND	20.0	50.0	ug/kg							
Surrogate: Decachlorobiphenyl	*26.1*			*ug/kg*	*25.0*		*105*	*50-150*			
Surrogate: Tetrachloro-m-xylene	*22.4*			*ug/kg*	*25.0*		*89.5*	*50-150*			

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100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56	

Quality Control Results

PCBs (EPA 8082)

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0068 - 3550B (Continued)				**Prepared: 04/07/2023 08:15**						
LCS (B3D0068-BS1)				**Analyzed: 04/07/2023 10:37**						
Aroclor-1016 (PCB-1016)	283	25.0	ug/kg	250		113	40.3-151			
Aroclor-1260 (PCB-1260)	293	25.0	ug/kg	250		117	39.4-151			
Surrogate: Decachlorobiphenyl	*30.4*		*ug/kg*	*25.0*		*122*	*50-150*			
Surrogate: Tetrachloro-m-xylene	*25.4*		*ug/kg*	*25.0*		*102*	*50-150*			
LCSD (B3D0068-BSD1)				**Analyzed: 04/07/2023 10:56**						
Aroclor-1016 (PCB-1016)	271	25.0	ug/kg	250		108	40.3-151	4.37	30	
Aroclor-1260 (PCB-1260)	290	25.0	ug/kg	250		116	39.4-151	1.02	30	
Surrogate: Decachlorobiphenyl	*33.0*		*ug/kg*	*25.0*		*132*	*50-150*			
Surrogate: Tetrachloro-m-xylene	*27.9*		*ug/kg*	*25.0*		*111*	*50-150*			
Matrix Spike (B3D0068-MS1)		**Source: BED0011-41**		**Analyzed: 04/07/2023 16:11**						
Aroclor-1016 (PCB-1016)	181	11.6	25.0 ug/kg	246	ND	73.5	40.3-151			
Aroclor-1260 (PCB-1260)	293	6.02	25.0 ug/kg	246	ND	119	39.4-151			
Surrogate: Decachlorobiphenyl	*30.3*		*ug/kg*	*24.6*		*123*	*50-150*			
Surrogate: Tetrachloro-m-xylene	*22.8*		*ug/kg*	*24.6*		*92.6*	*50-150*			
Matrix Spike Dup (B3D0068-MSD1)		**Source: BED0011-41**		**Analyzed: 04/07/2023 16:30**						
Aroclor-1016 (PCB-1016)	177	11.6	25.0 ug/kg	246	ND	71.9	40.3-151	NA	30	
Aroclor-1260 (PCB-1260)	277	6.02	25.0 ug/kg	246	ND	113	39.4-151	NA	30	
Surrogate: Decachlorobiphenyl	*31.4*		*ug/kg*	*24.6*		*127*	*50-150*			
Surrogate: Tetrachloro-m-xylene	*23.1*		*ug/kg*	*24.6*		*93.8*	*50-150*			

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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56	

Qualifiers and Definitions

Item	Qualifiers
BS	The recovery of this analyte in LCS and/or LCSD was outside control limit. Sample was accepted based on the remaining LCSand/or LCSD.
D	Sample was analyzed under dilution due to matrix interference.
DIL	Result for the compound reported from diluted analysis.
J	Analyte was detected. However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Reporting Limit (RL).
M	The spike recovery for this QC sample is outside of established control limits possibly due to sample matrix interference. Laboratory Control Samples(LCS/LCSD) recovery were acceptable.
R	The RPD was outside of QC acceptance limits due to possible matrix interference.
S6	Surrogate recovery is outside control limits due to matrix interference.

Item	Definitions
% wt	Percent Weight
%REC	Percent Recovery
°F	Degrees Fahrenheit
AETL	American Environmental Testing Laboratory, LLC
C	Carbon
CARB	California Air Resources Board
COC	Chain of Custody
Cresols	3-methylphenol/4-methylphenol coelute and cannot be chromatographically separated. Due to this coeluting isomer pair phenomenon, the laboratory uses a single cresol (4-methylphenol) as calibration standard for 3-methylphenol/4-methylphenol.
CRM	Certified Reference Material
DPD	Department of Planning and Development
DRO	Diesel Range Organics
Dup	Duplicate
ELAP	Environmental Laboratory Accreditation Program
EPA	Environmental Protection Agency
GC/FID	Gas Chromatography Flame Ionization Detection
GRO	Gasoline Range Organics
HC	Hydrocarbon
HEM	Hexane Extractable Material
HMU	Hazardous Material Unit
ICP/MS	Inductively Coupled Plasma Mass Spectrometry
LACSD	Los Angeles County Sanitation Districts
LCS	Laboratory Control Sample - A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes.
LCSD	Laboratory Control Sample Duplicate - A replicate of Laboratory Control Sample.
LOQ	Limit of Quantitation

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

AMERICAN ENVIRONMENTAL TESTING LABORATORY, LLC
2840 North Naomi Street, Burbank, CA 91504 • ELAP# 1541 • LACSD# 10181
Telephone (888) 288-AETL • (818) 845-8200 • www.aetlab.com
A KYZER LABS COMPANY

Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/11/2023 15:56

MDL	Method Detection Limit - The minimum measured concentration of a substance that can be reported with 99% confidence. MDL is statistically derived number which is specific for each instrument, each method and each compound.
mg/kg	Miligrams per Kilogram
mg/L	Miligrams per Liter
ml/L/hr	Milliliter per Liter per Hour
MRO	Motor oil Range Organics
MS	Matrix Spike - A sample prepared, taken through all sample preparation and analytical steps of the procedure and analyzed as an independent test results.
MSD	Matrix Spike Duplicate - A replicate of Matrix Spike Sample.
N	No
ND	Analyte is not detected below Method Detection Limit.
ng/m3	Nanograms per cubic meter
NIOSH	National Institute for Occupational Safety and Health
nL/L	Nanoliters per Liter
NTU	Nephelometric Turbidity Units
Ohm-cm	Ohms per centimeter
ORO	Oil Range Organics
OSHA	Occupational Safety and Health Administration
PCB	Polychlorinated Biphenyl
PSU	Practical Salinity Unit
RL	Reporting Limit - The lowest concentration at which an analyte can be detected in a sample and its concentration can be reported with a specified degree of confidence, accuracy and precision. For usage at AETL, RL is equivalant to LOQ.
RPD	Relative Percent Difference
SIM	Selective Ion Monitoring
SM	Standard Method
SPLP	Synthetic Precipitation Leaching Procedure
STLC	Soluble Threshold Limit Concentration
TCLP	Toxicity Characteristic Leaching Procedure
TPH	Total Petroleum Hydrocarbons
TTLC	Total Threshold Limit Concentrations
ug/kg	Micrograms per Kilogram
ug/L	Micrograms per Liter
ug/m3	Micrograms per cubic meter
WET	Waste Extraction Test
Y	Yes
ZHE	Zero Headspace Extraction

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AIH LABORATORY
2556 W Woodland Dr Anaheim, CA 92801

BULK ASBESTOS FIBER ANALYSIS
BY POLARIZED LIGHT MICROSCOPY

NVLAP TESTING
NVLAP LAB CODE 500079-0
Phone:(562) 860-2201
www.aihlab.com

Client Name: American Environmental Testing Laboratory
Project Manager: Joe Sevrean
Client Address: 2840 North Naomi Street Burbank, CA 91504
Project Number: BED0011/ SMPL-35255
Project Location: No Information Provided

Lab Batch Number: 2307560
Samples Submitted: 6
Samples Analyzed: 6
Analysis Method: EPA 600/R-93-116 & EPA 600/M4-82-020

Lab ID: 230756001 **Client ID:** BED0011-29

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Brown soil sandy material	**None Detected**	Cellulose <1%	Binder/Filler, Mineral Grains

Lab ID: 230756002 **Client ID:** BED0011-31

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Brown soil sandy material	**None Detected**	Cellulose <1%	Binder/Filler, Mineral Grains

Lab ID: 230756003 **Client ID:** BED0011-34

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Brown soil sandy material	**None Detected**	Cellulose <1%	Binder/Filler, Mineral Grains

Lab ID: 230756004 **Client ID:** BED0011-35

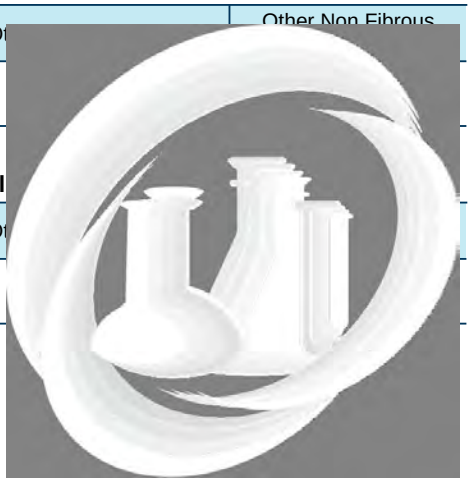
Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Brown soil sandy material	**None Detected**	Cellulose <1%	Binder/Filler, Mineral Grains

Lab ID: 230756005 **Client ID:** BED0011-38

Layer	Layer Description	Asbestos Type %	Ot	Other Non Fibrous
1.	Brown soil sandy material	**None Detected**		

Lab ID: 230756006 **Cl**

Layer	Layer Description	Asbestos Type %	Ot
1.	Brown soil sandy material	**None Detected**	



AIH LABORATORY
2556 W Woodland Dr Anaheim, CA 92801

BULK ASBESTOS FIBER ANALYSIS

BY POLARIZED LIGHT MICROSCOPY

NVLAP TESTING
NVLAP LAB CODE 500079-0
Phone:(562) 860-2201
www.aihlab.com

Client Name: American Environmental Testing Laboratory
Project Manager: Joe Sevrean
Client Address: 2840 North Naomi Street Burbank, CA 91504
Project Number: BED0011/ SMPL-35255
Project Location: No Information Provided

Lab Batch Number: 2307560
Samples Submitted: 6
Samples Analyzed: 6
Analysis Method: EPA 600/R-93-116 & EPA 600/M4-82-020

Analyzed by: Don Nguyen **Signature:** **Date:** 04-07-2023

Reviewed by: Zubair Ahmed **Signature:** **Date:** 04-07-2023

Reporting limit is 1%. If the sample was not collected by AIH Laboratory then the accuracy of the results is limited by the methodology and experience of the sample collector. Clients can verify specific reporting limit requirement from local regulatory agencies. Liability limited to cost of samples analysis. This report shall not be reproduced except in full, without written approval of AIH Laboratory. It shall not be used to claim product endorsement by NVLAP or any other agency of the government. Reported results relate only to the samples tested and may not be the representative of the sample area. AIH Laboratory shall dispose of the Customer's samples 14 days after receiving the samples unless instructed to store them for an alternate period of time in writing.



Lab Notes at Page 2

Orange Coast Analytical, Inc.
3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (480) 736-0960 Fax (480) 736-0970

LABORATORY REPORT FORM

ORANGE COAST ANALYTICAL, INC.

3002 Dow Suite 532 Tustin, CA 92780

(714) 832-0064

Laboratory Certification (ELAP) No.:2576
Expiration Date: 2023
Los Angeles County Sanitation District Lab ID# 10206

Laboratory Director's Name:
Mark Noorani

Client:	American Environmental Testing Laboratory
Laboratory Reference:	AETL 27824
Project Name:	BED0011
Project Number:	
Date Received:	4/5/2023
Date Reported:	4/11/2023
Chain of Custody Received:	☑
Analytical Method:	6020,

Mark Noorani, Laboratory Director

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Rev1.0

Ms. Hailley Coleman
American Environmental Testing Laboratory
2840 Naomi St
Burbank, CA, 91504

Lab Reference #: AETL 27824
Project Name: BED0011
Project #:

Case Narrative

Sample Receipt:

All samples on the Chain of Custody were received by OCA at 6ºC, on ice.

Holding Times:

All samples were analyzed within required holding times unless otherwise noted in the data qualifier section of the report.

Analytical Methods:

Sample analysis was performed following the analytical methods listed on the cover page.

Data Qualifiers:

Within this report, data qualifiers may have been assigned to clarify deviations in common laboratory procedures or any divergence from laboratory QA/QC criteria. If a data qualifier has been used, it will appear in the back of the report along with its description. All method QA/QC criteria have been met unless otherwise noted in the data qualifier section.

Definition of Terms:

The definitions of common terms and acronyms used in the report have been placed at the back of the report to assist data users.

Comments:

None

Ms. Hailley Coleman
American Environmental Testing Laboratory
2840 Naomi St
Burbank, CA, 91504

Lab Reference #: AETL 27824
Project Name: BED0011
Project #:

Client Sample Summary

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0011-01	27824-001	4/5/2023	4/4/2023	Soil
BED0011-04	27824-002	4/5/2023	4/4/2023	Soil
BED0011-07	27824-003	4/5/2023	4/4/2023	Soil
BED0011-10	27824-004	4/5/2023	4/4/2023	Soil
BED0011-13	27824-005	4/5/2023	4/4/2023	Soil
BED0011-16	27824-006	4/5/2023	4/4/2023	Soil
BED0011-17	27824-007	4/5/2023	4/4/2023	Soil
BED0011-20	27824-008	4/5/2023	4/4/2023	Soil
BED0011-23	27824-009	4/5/2023	4/4/2023	Soil
BED0011-26	27824-010	4/5/2023	4/4/2023	Soil
BED0011-29	27824-011	4/5/2023	4/4/2023	Soil
BED0011-31	27824-012	4/5/2023	4/4/2023	Soil
BED0011-34	27824-013	4/5/2023	4/4/2023	Soil
BED0011-35	27824-014	4/5/2023	4/4/2023	Soil
BED0011-38	27824-015	4/5/2023	4/4/2023	Soil
BED0011-41	27824-016	4/5/2023	4/4/2023	Soil

Ms. Hailley Coleman
American Environmental Testing Laboratory
2840 Naomi St
Burbank, CA, 91504

Lab Reference #: AETL 27824
Project Name: BED0011
Project #:

Metals

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0011-01	27824-001	4/5/2023 11:44	4/4/2023 10:49	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	12	mg/kg	04/06/23 16:00	04/10/23 12:17	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0011-04	27824-002	4/5/2023 11:44	4/4/2023 8:18	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	34	mg/kg	04/06/23 16:00	04/10/23 12:46	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0011-07	27824-003	4/5/2023 11:44	4/4/2023 7:27	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	5.1	mg/kg	04/06/23 16:00	04/10/23 12:51	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0011-10	27824-004	4/5/2023 11:44	4/4/2023 7:50	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	8.7	mg/kg	04/06/23 16:00	04/10/23 12:55	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0011-13	27824-005	4/5/2023 11:44	4/4/2023 14:52	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	20	mg/kg	04/06/23 16:00	04/10/23 12:59	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0011-16	27824-006	4/5/2023 11:44	4/4/2023 9:10	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	18	mg/kg	04/06/23 16:00	04/10/23 13:03	--	1

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American Environmental Testing Laboratory
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Burbank, CA, 91504

Lab Reference #: AETL 27824
Project Name: BED0011
Project #:

Metals

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0011-17	27824-007	4/5/2023 11:44	4/4/2023 9:15	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	21	mg/kg	04/06/23 16:00	04/10/23 13:07	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0011-20	27824-008	4/5/2023 11:44	4/4/2023 10:05	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	13	mg/kg	04/06/23 16:00	04/10/23 13:12	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0011-23	27824-009	4/5/2023 11:44	4/4/2023 11:20	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	6.2	mg/kg	04/06/23 16:00	04/10/23 13:16	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0011-26	27824-010	4/5/2023 11:44	4/4/2023 11:52	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	5.2	mg/kg	04/06/23 16:00	04/10/23 13:20	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0011-29	27824-011	4/5/2023 11:44	4/4/2023 8:49	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	11	mg/kg	04/06/23 16:00	04/10/23 13:33	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0011-31	27824-012	4/5/2023 11:44	4/4/2023 12:58	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	9.7	mg/kg	04/06/23 16:00	04/10/23 13:37	--	1

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American Environmental Testing Laboratory
2840 Naomi St
Burbank, CA, 91504

Lab Reference #: AETL 27824
Project Name: BED0011
Project #:

Metals

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0011-34	27824-013	4/5/2023 11:44	4/4/2023 13:52	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	13	mg/kg	04/06/23 16:00	04/10/23 13:41	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0011-35	27824-014	4/5/2023 11:44	4/4/2023 13:57	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	21	mg/kg	04/06/23 16:00	04/10/23 13:45	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0011-38	27824-015	4/5/2023 11:44	4/4/2023 14:17	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	21	mg/kg	04/06/23 16:00	04/10/23 13:49	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0011-41	27824-016	4/5/2023 11:44	4/4/2023 14:32	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	33	mg/kg	04/06/23 16:00	04/10/23 13:54	--	1

Method Blank						Soil	
MB ID	**ANALYTE**	**EPA Method**	**Result**	**Units**	**Date Extracted**	**Date Analyzed**	**Qual**	**DF**
MBIR0406231	Arsenic	6020	<1.0	mg/kg	04/06/23 16:00	04/10/23 12:05	--	1

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QA/QC Report
for
Metals

Reference #: AETL 27824 Reporting units: ppm

Matrix Spike (MS) / Matrix Spike Duplicate (MSD) **6020**

Laboratory Sample #: 27824-001 **Date of Extraction:** 04/06/23 16:00

Analyte	MS Date of Analysis	MSD Date of Analysis	R1	SPC CONC	MS	MSD	% MS	% MSD	RPD	ACP %MS	ACP RPD	Qualifiers
Arsenic	04/10/23 12:21	04/10/23 12:26	12.0	20.0	30.8	30.2	94	91	2	75-125	20	--

Laboratory Control Spike (LCS) / Laboratory Control Spike Duplicate (LCSD) **6020**

Laboratory Sample #: IR0406231 **Date of Extraction:** 04/06/23 16:00

Analyte	LCS Date of Analysis	LCSD Date of Analysis		SPC CONC	LCS	LCSD	% LCS	% LCSD	RPD	ACP %LCS	ACP RPD	Qualifiers
Arsenic	04/10/23 12:09	04/10/23 12:13	--	20.0	22.2	20.9	111	104	6	80-120	20	--

Definition of terms:

R	Result of unspiked laboratory sample used for matrix spike determination.
SP CONC (or Spike Conc.)	Spike concentration added to sample or blank
MS	Matrix Spike sample result
MSD	Matrix Spike Duplicate sample result
%MS	Percent recovery of MS: {(MS-R1) / SP CONC} x100
%MSD	Percent recovery of MSD: {(MSD-R1) / SP CONC} x 100
RPD (for MS/MSD)	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2
LCS	Laboratory Control Sample result
LCSD	Laboratory Control Sample Duplicate result
%LCS	Percent recovery of LCS: {(LCS) / SP CONC} x100
%LCSD	Percent recovery of LCSD: {(LCSD) / SP CONC} x 100
RPD (for LCS/LCSD)	Relative Percent Difference: {(LCS-LCSD) / (LCS+LCSD)} x 100 x 2
ACP %LCS	Acceptable percent recovery range for Laboratory Control Samples.
ACP %MS	Acceptable percent recovery range for Matrix Spike samples
ACP RPD	Acceptable Relative Percent Difference
D	Detectable, result must be greater than zero
Qual	A checked box indicates a data qualifier was utilized and/or required for this analyte see attached explanation.
ND	Analyte Not Detected

27824

AMERICAN ENVIRONMENTAL TESTING LABORATORY, LLC
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Telephone (888) 288-AETL • (818) 845-8200 • www.aetlab.com

SUBCONTRACT CHAIN of CUSTODY

Sending Laboratory:

AETL
AETL, LLC. 2840 N. Naomi Street
Burbank, CA 91504
Phone: 818-845-8200
Project Manager: Hailley Coleman
Email: hcoleman@aetlab.com

Subcontracted Laboratory:

Orange Coast Analytical. Inc.
3002 Dow Ave., Ste. 532
Tustin, CA 92780
Phone: (714) 832-0064
Fax:

Work Order: BED0011 PO # SUB-35254

Analysis	Due	Expires	Comments
1 **Sample ID: BED0011-01** ***Soil*** ***Sampled: 04/04/2023 10:49***			
6020-As (Arsenic, total by ICP/MS)	04/11/2023	10/01/2023 10:49	
Containers Supplied:			
2 **Sample ID: BED0011-04** ***Soil*** ***Sampled: 04/04/2023 08:18***			
6020-As (Arsenic, total by ICP/MS)	04/11/2023	10/01/2023 08:18	
Containers Supplied:			
3 **Sample ID: BED0011-07** ***Soil*** ***Sampled: 04/04/2023 07:27***			
6020-As (Arsenic, total by ICP/MS)	04/11/2023	10/01/2023 07:27	
Containers Supplied:			
4 **Sample ID: BED0011-10** ***Soil*** ***Sampled: 04/04/2023 07:50***			
6020-As (Arsenic, total by ICP/MS)	04/11/2023	10/01/2023 07:50	
Containers Supplied:			
5 **Sample ID: BED0011-13** ***Soil*** ***Sampled: 04/04/2023 14:52***			
6020-As (Arsenic, total by ICP/MS)	04/11/2023	10/01/2023 14:52	

only 1 to 6
DB

Approved by: HAILLEY COLEMAN 4/4/23
AETL Project Manager — Date

Released By AETL Sample Control	Date	Received By Courier	Date
			1144
Released By Courier	4/5/23 1144 Date	Received By Subcontract Laboratory	4/5/23 Date

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SUBCONTRACT CHAIN of CUSTODY
(Continued)

Work Order: BED0011 (Continued)

Analysis	Due	Expires	Comments
Containers Supplied:			
Sample ID: BED0011-16 ***Soil*** ***Sampled: 04/04/2023 09:10***			
6020-As (Arsenic, total by ICP/MS)	04/11/2023	10/01/2023 09:10	
Containers Supplied:			
Sample ID: BED0011-17 ***Soil*** ***Sampled: 04/04/2023 09:15***			
6020-As (Arsenic, total by ICP/MS)	04/11/2023	10/01/2023 09:15	
Containers Supplied:			
Sample ID: BED0011-20 ***Soil*** ***Sampled: 04/04/2023 10:05***			
6020-As (Arsenic, total by ICP/MS)	04/11/2023	10/01/2023 10:05	
Containers Supplied:			
Sample ID: BED0011-23 ***Soil*** ***Sampled: 04/04/2023 11:20***			
6020-As (Arsenic, total by ICP/MS)	04/11/2023	10/01/2023 11:20	
Containers Supplied:			
Sample ID: BED0011-26 ***Soil*** ***Sampled: 04/04/2023 11:52***			
6020-As (Arsenic, total by ICP/MS)	04/11/2023	10/01/2023 11:52	
Containers Supplied:			
Sample ID: BED0011-29 ***Soil*** ***Sampled: 04/04/2023 08:49***			
6020-As (Arsenic, total by ICP/MS)	04/11/2023	10/01/2023 08:49	

Approved by: _____ Date _____
AETL Project Manager

Released By AETL Sample Control	Date	Received By Courier	Date
	4/5/23 1144		4/5/23 1
Released By Courier	Date	Received By Subcontract Laboratory	Date

AMERICAN ENVIRONMENTAL TESTING LABORATORY, LLC
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Telephone (888) 288-AETL • (818) 845-8200 • www.aetlab.com

SUBCONTRACT CHAIN of CUSTODY
(Continued)

Work Order: BED0011 (Continued)

Analysis	Due	Expires	Comments
Containers Supplied:			
Sample ID: BED0011-31 ***Soil*** ***Sampled: 04/04/2023 12:58***			
6020-As (Arsenic, total by ICP/MS)	04/11/2023	10/01/2023 12:58	
Containers Supplied:			
Sample ID: BED0011-34 ***Soil*** ***Sampled: 04/04/2023 13:52***			
6020-As (Arsenic, total by ICP/MS)	04/11/2023	10/01/2023 13:52	
Containers Supplied:			
Sample ID: BED0011-35 ***Soil*** ***Sampled: 04/04/2023 13:57***			
6020-As (Arsenic, total by ICP/MS)	04/11/2023	10/01/2023 13:57	
Containers Supplied:			
Sample ID: BED0011-38 ***Soil*** ***Sampled: 04/04/2023 14:17***			
6020-As (Arsenic, total by ICP/MS)	04/11/2023	10/01/2023 14:17	
Containers Supplied:			
Sample ID: BED0011-41 ***Soil*** ***Sampled: 04/04/2023 14:32***			
6020-As (Arsenic, total by ICP/MS)	04/11/2023	10/01/2023 14:32	
Containers Supplied:			

Approved by: _____ Date _____
AETL Project Manager

Released By AETL Sample Control	Date	Received By Courier	Date
Released By Courier	4/5/23 1144 Date	Received By Subcontract Laboratory	4/5/23 1 Date

Sample Receipt Report

Laboratory Reference: AETL 27824 Logged in by: HC

Received:	04/05/23 11:44	Company Name:	American Environmental Testing Labo
Method of Shipment:	Hand Delivered	Project Manager:	Ms. Hailley Coleman
Shipping Container:	Cooler	Project Name:	BED0011
# Shipping Containers:	1	Project #:	

Sample Quantity
16 Soil

Chain of Custody		Complete ☑	Incomplete ☐	None ☐
Samples On Ice		Yes, Wet ☑	Yes, Blue ☐	No ☐
Observed Temp. (°C):	6	Thermometer ID: IR#3	Adjusted Temp.:	6+(-0)=6
Shipping Intact		Yes ☑	N/A ☐	No ☐
Shipping Custody Seals Intact		Yes ☐	N/A ☑	No ☐
Samples Intact		Yes ☑		No ☐
Sample Custody Seals Intact		Yes ☐	N/A ☑	No ☐
Custody Seals Signed & Dated		Yes ☐	N/A ☑	No ☐
Proper Test Containers		Yes ☑		No ☐
Proper Test Preservations		Yes ☑		No ☐
Samples Within Hold Times		Yes ☑		No ☐
VOAs Have Zero Headspace		Yes ☐	N/A ☑	No ☐
Sample Labels		Complete ☑	Incomplete ☐	None ☐
Sample Information Matches COC		Yes ☑	N/A ☐	No ☐

Notes

Client Notified _____ By _____ On _____

April 10, 2023

Hailley Coleman
American Environmental Testing Laboratory, Inc.
2834 N. Naomi Street
Burbank, CA 91504

TEL: (818) 845-8200
FAX:

Workorder No.: N055812

RE: BED0011

Attention: Hailley Coleman

Enclosed are the results for sample(s) received on April 05, 2023 by ASSET Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562) 219-7435 if I can be of further assistance to your company.

Sincerely,

for

Ferdinand Paul Lugtu
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and ASSET Laboratories - California.

CLIENT: American Environmental Testing Laborator
Project: BED0011
Lab Order: N055812

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

All sample containers were received intact with proper chain of custody documentation.

Information on sample receipt conditions including discrepancies can be found in attached Sample Receipt Checklist Form.

Cooler temperature and sample preservation were verified upon receipt of samples if applicable.

Samples were analyzed within method holding time.

Analytical Comments for EPA 7199:

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery for Hexavalent Chromium in QC samples N055812-001A-MS/MSD possibly due to matrix interference. The associated Laboratory Control Sample (LCS) recovery was acceptable.

CLIENT: American Environmental Testing Laborator
Project: BED0011
Lab Order: N055812
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N055812-001A	BED0011-29	Soil	4/4/2023 8:49:00 AM	4/5/2023	4/10/2023
N055812-002A	BED0011-31	Soil	4/4/2023 12:58:00 PM	4/5/2023	4/10/2023
N055812-003A	BED0011-34	Soil	4/4/2023 1:52:00 PM	4/5/2023	4/10/2023
N055812-004A	BED0011-35	Soil	4/4/2023 1:57:00 PM	4/5/2023	4/10/2023
N055812-005A	BED0011-38	Soil	4/4/2023 2:17:00 PM	4/5/2023	4/10/2023
N055812-006A	BED0011-41	Soil	4/4/2023 2:32:00 PM	4/5/2023	4/10/2023

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BED0011-29
Lab Order:	N055812		
Project:	BED0011	**Collection Date:**	4/4/2023 8:49:00 AM
Lab ID:	N055812-001	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC						
EPA 3060A				**EPA 7199**		
RunID: CA01638-IC01_230406B	QC Batch: 98964			PrepDate:	4/5/2023	Analyst: **CR**
Hexavalent Chromium	ND	0.20		mg/Kg	1	4/6/2023 06:38 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BED0011-31
Lab Order:	N055812		
Project:	BED0011	**Collection Date:**	4/4/2023 12:58:00 PM
Lab ID:	N055812-002	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC						
EPA 3060A				**EPA 7199**		
RunID: CA01638-IC01_230406B	QC Batch: 98964			PrepDate:	4/5/2023	Analyst: **CR**
Hexavalent Chromium	0.53	0.20		mg/Kg	1	4/6/2023 08:21 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BED0011-34
Lab Order:	N055812		
Project:	BED0011	**Collection Date:**	4/4/2023 1:52:00 PM
Lab ID:	N055812-003	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC						
EPA 3060A				**EPA 7199**		
RunID: CA01638-IC01_230406B	QC Batch: 98964			PrepDate:	4/5/2023	Analyst: **CR**
Hexavalent Chromium	ND	0.20		mg/Kg	1	4/6/2023 08:43 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BED0011-35
Lab Order:	N055812		
Project:	BED0011	**Collection Date:**	4/4/2023 1:57:00 PM
Lab ID:	N055812-004	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC						
EPA 3060A				**EPA 7199**		
RunID: CA01638-IC01_230406B	QC Batch: 98964			PrepDate:	4/5/2023	Analyst: **CR**
Hexavalent Chromium	ND	0.20		mg/Kg	1	4/6/2023 09:06 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BED0011-38
Lab Order:	N055812		
Project:	BED0011	**Collection Date:**	4/4/2023 2:17:00 PM
Lab ID:	N055812-005	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC						
EPA 3060A				**EPA 7199**		
RunID: CA01638-IC01_230406B	QC Batch: 98964			PrepDate:	4/5/2023	Analyst: **CR**
Hexavalent Chromium	ND	0.20		mg/Kg	1	4/6/2023 09:29 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BED0011-41
Lab Order:	N055812		
Project:	BED0011	**Collection Date:**	4/4/2023 2:32:00 PM
Lab ID:	N055812-006	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC						
EPA 3060A				**EPA 7199**		
RunID: CA01638-IC01_230406B	QC Batch: 98964			PrepDate:	4/5/2023	Analyst: **CR**
Hexavalent Chromium	ND	0.20		mg/Kg	1	4/6/2023 09:52 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: American Environmental Testing Laboratory, Inc.
Work Order: N055812
Project: BED0011

ANALYTICAL QC SUMMARY REPORT

TestCode: CA_7199_S

Sample ID: **LCS-98964**	SampType: **LCS**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/5/2023**	RunNo: **171153**
Client ID: **LCSS**	Batch ID: **98964**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/6/2023**	SeqNo: **5139842**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	3.822	0.20	4.000	0	95.6	80	120				

Sample ID: **MB-98964**	SampType: **MBLK**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/5/2023**	RunNo: **171153**
Client ID: **PBS**	Batch ID: **98964**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/6/2023**	SeqNo: **5139843**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20									

Sample ID: **N055812-001A-REP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/5/2023**	RunNo: **171153**
Client ID: **ZZZZZZ**	Batch ID: **98964**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/6/2023**	SeqNo: **5139845**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20						0	0	20	

Sample ID: **N055812-001A-DUP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/5/2023**	RunNo: **171153**
Client ID: **ZZZZZZ**	Batch ID: **98964**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/6/2023**	SeqNo: **5139846**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20						0	0	20	

Sample ID: **N055812-001A-MS-I**	SampType: **MS**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/5/2023**	RunNo: **171153**
Client ID: **ZZZZZZ**	Batch ID: **98964**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/6/2023**	SeqNo: **5139850**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	680.136	20	650.8	0	105	75	125				

Qualifiers:

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- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits

Calculations are based on raw values

- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

ANALYTICAL QC SUMMARY REPORT

TestCode: CA_7199_S

Sample ID: **N055812-002A-REP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/5/2023**	RunNo: **171153**
Client ID: **ZZZZZZ**	Batch ID: **98964**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/6/2023**	SeqNo: **5139854**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.534	0.20						0.5317	0.361	20	

Sample ID: **N055812-003A-REP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/5/2023**	RunNo: **171153**
Client ID: **ZZZZZZ**	Batch ID: **98964**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/6/2023**	SeqNo: **5139856**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.072	0.20						0.07473	0	20	

Sample ID: **N055812-004A-REP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/5/2023**	RunNo: **171153**
Client ID: **ZZZZZZ**	Batch ID: **98964**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/6/2023**	SeqNo: **5139858**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20						0	0	20	

Sample ID: **N055812-005A-REP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/5/2023**	RunNo: **171153**
Client ID: **ZZZZZZ**	Batch ID: **98964**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/6/2023**	SeqNo: **5139860**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20						0	0	20	

Sample ID: **N055812-006A-REP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/5/2023**	RunNo: **171153**
Client ID: **ZZZZZZ**	Batch ID: **98964**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/6/2023**	SeqNo: **5139862**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20						0	0	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: American Environmental Testing Laboratory, Inc.
Work Order: N055812
Project: BED0011

ANALYTICAL QC SUMMARY REPORT

TestCode: CA_7199_S

Sample ID: **N055799-001A-REP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/5/2023**	RunNo: **171153**
Client ID: **ZZZZZZ**	Batch ID: **98964**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/6/2023**	SeqNo: **5139866**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20						0	0	20	

Sample ID: **N055799-002A-REP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/5/2023**	RunNo: **171153**
Client ID: **ZZZZZZ**	Batch ID: **98964**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/6/2023**	SeqNo: **5139868**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20						0	0	20	

Sample ID: **N055801-001A-REP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/5/2023**	RunNo: **171153**
Client ID: **ZZZZZZ**	Batch ID: **98964**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/6/2023**	SeqNo: **5139870**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20						0	0	20	

Sample ID: **N055812-001A-MS**	SampType: **MS**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/5/2023**	RunNo: **171153**
Client ID: **ZZZZZZ**	Batch ID: **98964**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/7/2023**	SeqNo: **5139873**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	2.740	0.20	4.007	0	68.4	75	125				S

Sample ID: **N055812-001A-MSD**	SampType: **MSD**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/5/2023**	RunNo: **171153**
Client ID: **ZZZZZZ**	Batch ID: **98964**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/7/2023**	SeqNo: **5139874**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	2.720	0.20	4.005	0	67.9	75	125	2.740	0.732	20	S

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

A KYZER LABS COMPANY

AMERICAN ENVIRONMENTAL TESTING LABORATORY, LLC
2840 North Naomi Street, Burbank, CA 91504 • ELAP# 1541 • LACSD# 10181
Telephone (888) 288-AETL • (818) 845-8200 • www.aetlab.com

SUBCONTRACT CHAIN of CUSTODY

Sending Laboratory:

AETL
AETL, LLC. 2840 N. Naomi Street
Burbank, CA 91504
Phone: 818-845-8200
Project Manager: Hailley Coleman
Email: hcoleman@aetlab.com

Subcontracted Laboratory:

ASSET Laboratories
11110 Artesia Blvd.
Cerritos, CA 90703
Phone: (702)307-2659
Fax: (562)219-7435

Work Order: BED0011 PO #SUB-35256

Analysis	Due	Expires	Comments
Sample ID: BED0011-29 *Soil* *Sampled: 04/04/2023 08:49*			
7199 (Chromium Hexavalent by Ion Chromatography)	04/11/2023	05/02/2023 08:49	N055812-001
Containers Supplied:			
Sample ID: BED0011-31 *Soil* *Sampled: 04/04/2023 12:58*			
7199 (Chromium Hexavalent by Ion Chromatography)	04/11/2023	05/02/2023 12:58	-002
Containers Supplied:			
Sample ID: BED0011-34 *Soil* *Sampled: 04/04/2023 13:52*			
7199 (Chromium Hexavalent by Ion Chromatography)	04/11/2023	05/02/2023 13:52	-003
Containers Supplied:			
Sample ID: BED0011-35 *Soil* *Sampled: 04/04/2023 13:57*			
7199 (Chromium Hexavalent by Ion Chromatography)	04/11/2023	05/02/2023 13:57	-004
Containers Supplied:			

CA: 5.9°C IR#1

Approved by: HAILLEY COLEMAN 4/7/23
AETL Project Manager — Date

Released By AETL Sample Control — Date 1035
Released By Courier — Date 4-5-23

Received By Courier — Date 4/5/23 1035
Received By Subcontract Laboratory — Date

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SUBCONTRACT CHAIN of CUSTODY
(Continued)

Work Order: BED0011 (Continued)

Analysis	Due	Expires	Comments
Sample ID: BED0011-38 ***Soil*** ***Sampled: 04/04/2023 14:17***			
7199 (Chromium Hexavalent by Ion Chromatography)	04/11/2023	05/02/2023 14:17	N055812-005
Containers Supplied:			
Sample ID: BED0011-41 ***Soil*** ***Sampled: 04/04/2023 14:32***			
7199 (Chromium Hexavalent by Ion Chromatography)	04/11/2023	05/02/2023 14:32	-006
Containers Supplied:			

CA: 5.8°C IR#1

Approved by: _____ Date _____
AETL Project Manager

Released By AETL Sample Control	Date 1035	Received By Courier	Date
Released By Courier	Date 4-5-23	Received By Subcontract Laboratory	Date 4/5/23 1035

ASSET Laboratories

Please review the checklist below. Any NO signifies non-compliance. Any non-compliance will be noted and must be understood as having an impact on the quality of the data. All tests will be performed as requested regardless of any compliance issues.

If you have any questions or further instruction, please contact our Project Coordinator at (702) 307-2659.

Cooler Received/Opened On:	4/5/2023	Workorder:	N055812
Rep sample Temp (Deg C):	5.8	IR Gun ID:	1
Temp Blank:	☐ Yes ☑ No		
Carrier name:	Walk-In		
Last 4 digits of Tracking No.:	NA	Packing Material Used:	None
Cooling process:	☑ Ice ☐ Ice Pack ☐ Dry Ice ☐ Other ☐ None		

Sample Receipt Checklist

1. Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
2. Custody seals intact, signed, dated on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
3. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
4. Chain of custody present?	Yes ☑	No ☐	
5. Sampler's name present in COC?	Yes ☐	No ☑	
6. Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
7. Chain of custody agrees with sample labels?	Yes ☑	No ☐	
8. Samples in proper container/bottle?	Yes ☑	No ☐	
9. Sample containers intact?	Yes ☑	No ☐	
10. Sufficient sample volume for indicated test?	Yes ☑	No ☐	
11. All samples received within holding time?	Yes ☑	No ☐	
12. Temperature of rep sample or Temp Blank within acceptable limit?	Yes ☑	No ☐	NA ☐
13. Water - VOA vials have zero headspace?	Yes ☐	No ☐	NA ☑
14. Water - pH acceptable upon receipt? Example: pH > 12 for (CN,S); pH<2 for Metals	Yes ☐	No ☐	NA ☑
15. Did the bottle labels indicate correct preservatives used?	Yes ☐	No ☐	NA ☑
16. Were there Non-Conformance issues at login?	Yes ☑	No ☐	NA ☐
Was Client notified?	Yes ☐	No ☐	NA ☑

Comments:

Checklist Completed By: MR 4/5/2023

Reviewed By:

ASSET Laboratories

WORK ORDER Summary

05-Apr-23

WorkOrder: N055812

Client ID: AETL01

Project: BED0011 **QC Level:** RTNE **Date Received:** 4/5/2023 10:35 AM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N055812-001A	BED0011-29	4/4/2023 8:49:00 AM	4/11/2023	Soil	EPA 3060A	Prep for Hexavalent Chromium	☐	☐	☐	WS-CA
			4/11/2023		EPA 7199	Hexavalent Chromium by IC	☐	☐	☐	WS-CA
N055812-002A	BED0011-31	4/4/2023 12:58:00 PM	4/11/2023		EPA 3060A	Prep for Hexavalent Chromium	☐	☐	☐	WS-CA
			4/11/2023		EPA 7199	Hexavalent Chromium by IC	☐	☐	☐	WS-CA
N055812-003A	BED0011-34	4/4/2023 1:52:00 PM	4/11/2023		EPA 3060A	Prep for Hexavalent Chromium	☐	☐	☐	WS-CA
			4/11/2023		EPA 7199	Hexavalent Chromium by IC	☐	☐	☐	WS-CA
N055812-004A	BED0011-35	4/4/2023 1:57:00 PM	4/11/2023		EPA 3060A	Prep for Hexavalent Chromium	☐	☐	☐	WS-CA
			4/11/2023		EPA 7199	Hexavalent Chromium by IC	☐	☐	☐	WS-CA
N055812-005A	BED0011-38	4/4/2023 2:17:00 PM	4/11/2023		EPA 3060A	Prep for Hexavalent Chromium	☐	☐	☐	WS-CA
			4/11/2023		EPA 7199	Hexavalent Chromium by IC	☐	☐	☐	WS-CA
N055812-006A	BED0011-41	4/4/2023 2:32:00 PM	4/11/2023		EPA 3060A	Prep for Hexavalent Chromium	☐	☐	☐	WS-CA
			4/11/2023		EPA 7199	Hexavalent Chromium by IC	☐	☐	☐	WS-CA
N055812-007A	FOLDER	4/11/2023	4/11/2023		Folder	Folder	☐	☐	☐	LAB
			4/11/2023		Folder	Folder	☐	☐	☐	LAB

AMERICAN ENVIRONMENTAL TESTING LABORATORY, LLC
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Telephone (888) 288-AETL • (818) 845-8200 • www.aetlab.com

April 25, 2023

AETL Job No: BED0011.01
Received Date: 04/04/2023
Project Number: [none]

Parsons
100 West Walnut Street
Pasadena, CA 91124
Telephone: (626) 440-6200

Attention: Justin King

Project Name: Canoga Park High School
Site: 6850 CA-27
Canoga Park, CA 91303

Enclosed please find the results of analyses for samples which were analyzed as specified on the attached chain of custody. If you have any questions concerning this report, please do not hesitate to call.

Checked By: Hailley Coleman
Project Manager

Approved By: Joe Sevrean
Laboratory Director

Table of Contents

Client Project Name: General Soil Testing Project Number: [none]
Work Order Number: BED0011

1 Cover Letter 1
2 Sample Condition on Receipt 3
3 Chain of Custody 4
4 Cooler Receipt Forms 7
5 Case Narrative 8
6 Samples Received 9
7 Positive Hits Summary 11
8 Analytical Results 12
9 Quality Control Results 18
10 Qualifiers and Definitions 26
11 Sub Contracted Analysis 28

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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/25/2023 15:09	

Sample Condition on Receipt

Cooler ID: Default Cooler **Temperature: 5.8 °C**

Are the COCs Correct	Y		
Labels Legible	Y	Containers In Good Condition	Y
COC/Labels Agree	Y	Samples Preserved Properly	Y
Sufficient Sample Volume	Y	Sufficient Holding Time for all Tests	Y
Sample Labels intact	Y	Received on Ice	Y

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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CHAIN OF CUSTODY RECORD

108491

COMPANY: Parsons
PROJECT MANAGER: Justin Ling
COMPANY ADDRESS: 100 W. Walnut St. Pasadena, CA 91124
PHONE: (310) 809-5793
FAX:
PROJECT NAME: Canoga Park Highschool
PROJECT #:
SITE NAME AND ADDRESS: 6850 CA-27, Canoga Park, CA 91303
PO #:

AETL JOB No. BE00011

Page 1 of 3

	SAMPLE ID	LAB ID	DATE	E.D. TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	OCPs (8081A)	STLC-Pb	TLLP-Pb	TEST INSTRUCTIONS & COMMENTS
1	SB-1-D0.5	BE00011-01	1049	4/4/23	Soil	1x9oz	NONE	X	X	X	X	X	
2	SB-1-D2.0	-02	4/4/2023	1053				X	X				Hold
3	SB-1-D3.0	-03		1057				X	X				Hold
4	SB-5-D0.5	-04		0818				X	X	X			
5	SB-5-D2.0	-05		0823					X				Hold
6	SB-5-D3.0	-06		0830					X				Hold
7	SB-8-D0.5	-07		0727				X	X	X			
8	SB-8-D2.0	-08		0730									Hold
9	SB-8-D3.0	-09		0735									Hold
10	SB-12-D0.5	-10		0750				X	X	X			
11	SB-12-D2.0	-11		0755									Hold
12	SB-12-D3.0	-12		0802			ED	X					Hold
13	SB-50-D0.5	-13		1452				X	X	X			
14	SB-50-D2.0	-14		1455					X				Hold
15	SB-50-D3.0	-15		1458					X				Hold

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y/ N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

TURN AROUND TIME

☑ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY ☑ PDF ☐ GEOTRACKER (GLOBAL ID) _____ ☐ OTHER (PLEASE SPECIFY) _____

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:	Signature:	Signature:
Printed Name: Edward Dabys	Printed Name:	Printed Name:
Date: 4/4/2023 Time: 1600	Date: Time:	Date: Time:
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: 3.**
Signature:	Signature:	Signature: Joe Sevrens
Printed Name:	Printed Name:	Printed Name: Joe Sevrens
Date: Time:	Date: Time:	Date: 4/4/2023 Time: 1600

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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CHAIN OF CUSTODY RECORD

108490

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut St. Pasadena, CA 91124
PHONE / FAX: (310) 809-5793
PROJECT NAME: Canoga Park High School
PROJECT #:
SITE NAME AND ADDRESS: 6850 CA-27, Canoga Park, CA 91303
PO#:

AETL JOB No. BED0011

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1	SB-3-D0.5	BE00011-16	4/4/2023	0910	Soil	1x 9oz + 4 Vials	—
2	SB-3-D0.5-DUP	-17		0915			
3	SB-3-D2.0	-18		0935			
4	SB-3-D3.0	-19		0945			
5	SB-2-D0.5	-20		1005			
6	SB-2-D2.0	-21		1020			
7	SB-2-D3.0	-22		1030			
8	SB-37-D0.5	-23		1120			
9	SB-37-D2.0	-24		1130			
10	SB-37-D3.0	-25		1135			
11	SB-36-D0.5	-26		1152			
12	SB-36-D2.0	-27		1202			
13	SB-36-D3.0	-28	▼	1212	▼	▼	▼
14							
15							

ANALYSIS REQUESTED

	Lead (6010B)	Arsenic (6020)	OCPs (8081A)	VOCs (8260B)	TPH (8270C)	STLC-Pb	TCLP-Pb				TEST INSTRUCTIONS & COMMENTS
1	X	X	X	X	X	X	X				
2	X	X	X	X	X	X	X				Duplicate
3	X	X									Hold
4	X	X									Hold
5	X	X	X	X	X						
6		X									Hold
7		X									Hold
8	X	X	X	X	X						
9											Hold
10											Hold
11	X	X	X	X	X						
12											Hold
13											Hold
14											
15											

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y/ N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

TURN AROUND TIME

☑ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY
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☐ GEOTRACKER (GLOBAL ID) _____
☐ OTHER (PLEASE SPECIFY) _____

	RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:	E. Dabsys		
Printed Name:	Edward Dabsys		
Date / Time:	4/4/2023 1600		
	RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: 3.**
Signature:			Joe Sevreau
Printed Name:			Joe Sevreau
Date / Time:			4/4/2023 1600

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CHAIN OF CUSTODY RECORD

108493

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut Street Pasadena, CA 91124
PHONE / FAX: (310) 809-5793
PROJECT NAME: Canoga Park Highschool
PROJECT #:
SITE NAME AND ADDRESS: 6850 CA-27, Canoga Park, CA 91303
PO #:

AETL JOB No. BE00011

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1	SB-4-D0.5	BE00011-29	4/4/2023	0849	soil	1x9oz + 2x2oz	none
2	SB-4-D2.0	-30		0855			
3	SB-22-D0.5	-31		1258			
4	SB-22-D2.0	-32		1304		1x9oz	
5	SB-22-D3.0	-33		1307		1x9oz	
6	SB-53-D0.5	-34		1352		1x9oz + 2x2oz	
7	SB-53-D0.5-DUP	-35		1357		1x9oz + 2x2oz	
8	SB-53-D2.0	-36		1359		1x9oz	
9	SB-53-D3.0	-37		1401			
10	SB-52-D0.5	-38		1417			
11	SB-52-D2.0	-39		1420			
12	SB-52-D3.0	-40		1424			
13	SB-51-D0.5	-41		1432			
14	SB-51-D2.0	-42		1434			
15	SB-51-D3.0	-43		1437			

ANALYSIS REQUESTED

SAMPLE ID	Lead (6010B)	Arsenic (6020)	OCPs (8081A)	PCBs (8270C)	Asbestos (PLM)	PAHs (8270C)	Cr VI (7199)	CAM (6010B)	Mercury (7470A)	TEST INSTRUCTIONS & COMMENTS
SB-4-D0.5	X	X	X	X	X	X	X	X	X	
SB-4-D2.0										Hold
SB-22-D0.5	X	X	X	X	X	X	X	X	X	
SB-22-D2.0				X			X			Hold
SB-22-D3.0				X			X			Hold
SB-53-D0.5	X	X	X	X	X	X	X	X	X	
SB-53-D0.5-DUP	X	X	X	X	X	X	X	X	X	Duplicate
SB-53-D2.0		X								Hold
SB-53-D3.0		X								Hold
SB-52-D0.5	X	X	X	X	X	X	X	X	X	
SB-52-D2.0		X								Hold
SB-52-D3.0		X								Hold
SB-51-D0.5	X	X	X	X	X	X	X	X	X	
SB-51-D2.0		X								Hold
SB-51-D3.0		X								Hold

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y / N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

TURN AROUND TIME

☑ NORMAL ☐ RUSH
☐ SAME DAY
☐ NEXT DAY
☐ 2 DAYS
☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY
☑ PDF
☐ GEOTRACKER (GLOBAL ID) _____
☐ OTHER (PLEASE SPECIFY) _____

	RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature	E. Dubey		
Printed Name	Edward Dubey		
Date / Time	4/4/2023 1600		

	RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: 3.
Signature			Joe Severeo
Printed Name			Joe Severeo
Date / Time			4/4/2023 1600

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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COOLER RECEIPT FORM

Client Name: Parsons

Project Name: Canoga Park High School Project No.:

AETL Job Number: BED0011

Date Received: 04-04-23 Received by: Joe Sevrean

Carrier: ☑ AETL Courier ☐ Client ☐ GSL ☐ FedEx ☐ UPS
☐Others:

Samples were received in: ☑ Cooler (__2_____) ☐ Other (Specify):

Sample Container Temperature: __5.8__ °C IR Gun S/N: 51941911MV

Type of sample containers: ☐ VOA, ☐ Glass bottles, ☑Wide mouth jars, ☐HDPE bottles, ☐ Metal sleeves, ☐ Acetate sleeves, ☐ 5035 Kit: ☐ AETL or ☐ Client, ☐ Tedlar Bags, Summa Canister: ☐ 6L, ☐ 3L, ☐ 1L, Others (Specify): _____

How are samples preserved: ☐ None, ☑ Ice, ☐ Blue Ice, ☐ Dry Ice
☑ None, ☐ HNO_3, ☐ NaOH, ☐ ZnOAc, ☐ HCl, ☐ $Na_2S_2O_3$, ☐ MeOH, ☐ $NaHSO_4$
☐ Other (Specify):

	Yes	No	N/A	Note or Comment
1. Are the COCs Correct?	✔			
2. Are Sample labels legible & indelible ink?	✔			
3. Do samples match the COC?	✔			
4. Are the required analyses clear?	✔			
5. Is there enough samples for required analysis?	✔			
6. Does cooler or samples have custody seal(s)?			✔	
7. Are sample containers in good condition?	✔			
8. Are samples preserved?	✔			
9. Are samples preserved properly for the intended analysis?	✔			
10. Are the VOAs free of headspace? See footnote.			✔	
11. Are the jars free of headspace?			✔	

* = see note below. N/A = Not Applicable

PLEASE NOTE ALL SAMPLES WILL BE DISPOSED OF 30 DAYS AFTER RECEIVING DATE. IF AETL IS INFORMED OTHERWISE, THERE WILL BE A STORAGE CHARGE PER SAMPLE PER MONTH FOR ANY SAMPLE HELD BEYOND 30 DAYS.

◯ Example maximum headspace bubble size; acceptance criteria not to exceed 5-6 mm in diameter.

For headspace bubbles exceeding 6 mm in diameter, sample receiving will tag the VOA and notify the Project Manager. The Project Manager will contact client for Analyze or Resample instructions.

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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/25/2023 15:09

Case Narrative

The following "Sample Received" Section summarizes the samples received and associated analyses requested as specified on the enclosed chain of custody.

Results as reported by the laboratory apply only to 1) the items tested, 2) as the samples are received, and 3) the accuracy of information provided. Information supplied by the customer that may affect validity of results and may be contained in this report include Project Name/Number, Site Location, Sample Locations, Sampling Dates/Times, Sample ID, Sample Preservation, Sample Matrix, Sample Properties, Field Blanks, Field Duplicates, Field Spikes, and Site Historical Data.

Accreditation applies only to the test methods listed on each scope of accreditation held by the laboratory; certifications held by the laboratory may not apply to results supplied in this report.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

Qualifiers are noted in the report.

The samples were subcontracted to Orange Coast Analytical, Inc. for EPA 6020. Please see attached report for results.

The samples were subcontracted to Asset Laboratories for EPA 7199. Please see attached report for results.

The samples were subcontracted to AIH Laboratories for EPA 600R-93/116. Please see attached report for results.

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/25/2023 15:09	

Samples Received

AETL received the following samples on 04/04/2023 with the following specifications

Client ID: SB-1-D0.5 **Sample Date:** 04/4/2023 10:49
Lab ID: BED0011-01 **Matrix:** Soil **Quantity of Containers:** 2

Method	Analyte	Units	TAT
EPA 6010B-1311 TCLP	TCLP Lead by ICP	mg/L	5
EPA 6010B-STLC	STLC Lead by ICP	mg/L	5

Client ID: SB-1-D2.0 **Sample Date:** 04/4/2023 10:53
Lab ID: BED0011-02 **Matrix:** Soil **Quantity of Containers:** 1

Method	Analyte	Units	TAT
EPA 6010B	Lead, total by ICP	mg/kg	5

Client ID: SB-3-D0.5 **Sample Date:** 04/4/2023 9:10
Lab ID: BED0011-16 **Matrix:** Soil **Quantity of Containers:** 6

Method	Analyte	Units	TAT
EPA 6010B-1311 TCLP	TCLP Lead by ICP	mg/L	5
EPA 6010B-STLC	STLC Lead by ICP	mg/L	5

Client ID: SB-3-D0.5-DUP **Sample Date:** 04/4/2023 9:15
Lab ID: BED0011-17 **Matrix:** Soil **Quantity of Containers:** 6

Method	Analyte	Units	TAT

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/25/2023 15:09

Samples Received
(Continued)

AETL received the following samples on 04/04/2023 with the following specifications

EPA 6010B-1311 TCLP	TCLP Lead by ICP	mg/L	5
EPA 6010B-STLC	STLC Lead by ICP	mg/L	5

Client ID: SB-3-D2.0 **Sample Date:** 04/4/2023 9:35

Lab ID: BED0011-18 **Matrix:** Soil **Quantity of Containers:** 5

Method	Analyte	Units	TAT
EPA 6010B	Lead, total by ICP	mg/kg	5

Client ID: SB-22-D2.0 **Sample Date:** 04/4/2023 13:04

Lab ID: BED0011-32 **Matrix:** Soil **Quantity of Containers:** 1

Method	Analyte	Units	TAT
EPA 8082	Polychlorinated Biphenyls (PCBs)	ug/kg	5

Total Number of Samples received: 6

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/25/2023 15:09

Positive Hits Summary

Lab ID	Client ID				Sampled
BED0011-01	SB-1-D0.5				04/04/2023 10:49
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B-STLC	Lead	5.28		mg/L	04/18/2023 17:19
EPA 6010B-1311 TCLP	Lead	0.00725	J	mg/L	04/18/2023 13:10

Lab ID	Client ID				Sampled
BED0011-02	SB-1-D2.0				04/04/2023 10:53
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	9.70		mg/kg	04/19/2023 13:08

Lab ID	Client ID				Sampled
BED0011-16	SB-3-D0.5				04/04/2023 09:10
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B-STLC	Lead	13.5		mg/L	04/18/2023 17:23
EPA 6010B-1311 TCLP	Lead	0.0663		mg/L	04/18/2023 13:14

Lab ID	Client ID				Sampled
BED0011-17	SB-3-D0.5-DUP				04/04/2023 09:15
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B-STLC	Lead	10.2		mg/L	04/18/2023 17:26
EPA 6010B-1311 TCLP	Lead	0.0731		mg/L	04/18/2023 13:17

Lab ID	Client ID				Sampled
BED0011-18	SB-3-D2.0				04/04/2023 09:35
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	8.39		mg/kg	04/19/2023 13:20

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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/25/2023 15:09	

Analytical Results

Client ID: SB-1-D0.5
Lab ID: BED0011-01 (Soil) **Sampled:** 04/04/23 10:49

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
STLC Analysis											
Method: EPA 6010B-STLC											
Lead	**5.28**		1	0.0100	0.0500	mg/L	04/17/23 13:21	04/18/23 17:19	B3D0217	LE	3050B
TCLP Analysis											
Method: EPA 6010B-1311 TCLP											
Lead	**0.00725**	J	1	0.00500	0.0250	mg/L	04/17/23 12:19	04/18/23 13:10	B3D0206	LE	3050B

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/25/2023 15:09	

Analytical Results

Client ID: SB-1-D2.0
Lab ID: BED0011-02 (Soil) **Sampled:** 04/04/23 10:53

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Lead	**9.70**		1	0.550	5.00	mg/kg	04/18/23 14:30	04/19/23 13:08	B3D0232	LE	3050B

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2840 North Naomi Street, Burbank, CA 91504 • ELAP# 1541 • LACSD# 10181
Telephone (888) 288-AETL • (818) 845-8200 • www.aetlab.com
A KYZER LABS COMPANY

Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/25/2023 15:09	

Analytical Results

Client ID: SB-3-D0.5
Lab ID: BED0011-16 (Soil) **Sampled:** 04/04/23 9:10

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
STLC Analysis											
Method: EPA 6010B-STLC											
Lead	**13.5**		1	0.0100	0.0500	mg/L	04/17/23 13:21	04/18/23 17:23	B3D0217	LE	3050B
TCLP Analysis											
Method: EPA 6010B-1311 TCLP											
Lead	**0.0663**		1	0.00500	0.0250	mg/L	04/17/23 12:19	04/18/23 13:14	B3D0206	LE	3050B

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100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/25/2023 15:09	

Analytical Results

Client ID: SB-3-D0.5-DUP
Lab ID: BED0011-17 (Soil) **Sampled:** 04/04/23 9:15

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
STLC Analysis											
Method: EPA 6010B-STLC											
Lead	**10.2**		1	0.0100	0.0500	mg/L	04/17/23 13:21	04/18/23 17:26	B3D0217	LE	3050B
TCLP Analysis											
Method: EPA 6010B-1311 TCLP											
Lead	**0.0731**		1	0.00500	0.0250	mg/L	04/17/23 12:19	04/18/23 13:17	B3D0206	LE	3050B

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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/25/2023 15:09	

Analytical Results

Client ID: SB-3-D2.0
Lab ID: BED0011-18 (Soil) **Sampled:** 04/04/23 9:35

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Lead	**8.39**		1	0.550	5.00	mg/kg	04/18/23 14:30	04/19/23 13:20	B3D0232	LE	3050B

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100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/25/2023 15:09	

Analytical Results

Client ID: SB-22-D2.0
Lab ID: BED0011-32 (Soil) **Sampled:** 04/04/23 13:04

PCBs

Method: EPA 8082

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Aroclor-1016 (PCB-1016)	ND		1	11.6	25.0	ug/kg	04/18/23 10:35	04/19/23 12:14	B3D0226	BC	3550B
Aroclor-1221 (PCB-1221)	ND		1	8.11	25.0	ug/kg	04/18/23 10:35	04/19/23 12:14	B3D0226	BC	3550B
Aroclor-1232 (PCB-1232)	ND		1	15.2	25.0	ug/kg	04/18/23 10:35	04/19/23 12:14	B3D0226	BC	3550B
Aroclor-1242 (PCB-1242)	ND		1	5.25	25.0	ug/kg	04/18/23 10:35	04/19/23 12:14	B3D0226	BC	3550B
Aroclor-1248 (PCB-1248)	ND		1	11.0	25.0	ug/kg	04/18/23 10:35	04/19/23 12:14	B3D0226	BC	3550B
Aroclor-1254 (PCB-1254)	ND		1	11.9	25.0	ug/kg	04/18/23 10:35	04/19/23 12:14	B3D0226	BC	3550B
Aroclor-1260 (PCB-1260)	ND		1	6.02	25.0	ug/kg	04/18/23 10:35	04/19/23 12:14	B3D0226	BC	3550B
Aroclor-1262 (PCB-1262)	ND		1	20.0	50.0	ug/kg	04/18/23 10:35	04/19/23 12:14	B3D0226	BC	3550B
Aroclor-1268 (PCB-1268)	ND		1	20.0	50.0	ug/kg	04/18/23 10:35	04/19/23 12:14	B3D0226	BC	3550B
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*96.1%*				*50-150*		04/18/23 10:35	*04/19/23 12:14*	B3D0226	*BC*	3550B
Surrogate: Tetrachloro-m-xylene	*103%*				*50-150*		04/18/23 10:35	*04/19/23 12:14*	B3D0226	*BC*	3550B

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100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/25/2023 15:09

Quality Control Results

STLC Analysis (EPA 6010B-STLC)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0217 - 3050B					**Prepared: 04/17/2023 13:21**						
Method Blank (B3D0217-BLK1)					**Analyzed: 04/18/2023 17:53**						
Lead	0.0285	0.0100	0.0500	mg/L							J

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Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/25/2023 15:09	

Quality Control Results

STLC Analysis (EPA 6010B-STLC)

Analyte	Result		RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0217 - 3050B (Continued)					**Prepared: 04/17/2023 13:21**						
LCS (B3D0217-BS1)					**Analyzed: 04/18/2023 17:56**						
Lead	18.8		0.0500	mg/L	20.0		93.9	75-125			
LCSD (B3D0217-BSD1)					**Analyzed: 04/18/2023 17:59**						
Lead	19.4		0.0500	mg/L	20.0		97.1	75-125	3.30	15	
Duplicate (B3D0217-DUP1)		**Source: BED0076-01**			**Analyzed: 04/18/2023 18:05**						
Lead	0.0169	0.0100	0.0500	mg/L		0.0531			103	15	R, J

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Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/25/2023 15:09

Quality Control Results

TCLP Analysis (EPA 6010B-1311 TCLP)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0206 - 3050B					**Prepared: 04/17/2023 12:19**						
Method Blank (B3D0206-BLK1)					**Analyzed: 04/18/2023 14:29**						
Lead	0.0105	0.00500	0.0250	mg/L							J

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Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/25/2023 15:09

Quality Control Results

TCLP Analysis (EPA 6010B-1311 TCLP)

Analyte	Result		RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0206 - 3050B (Continued)					**Prepared: 04/17/2023 12:19**						
LCS (B3D0206-BS1)					**Analyzed: 04/18/2023 12:39**						
Lead	10.7		0.0250	mg/L	10.0		107	75-125			
LCSD (B3D0206-BSD1)					**Analyzed: 04/18/2023 12:41**						
Lead	10.6		0.0250	mg/L	10.0		106	75-125	1.08	15	
Duplicate (B3D0206-DUP1)		**Source: BEC0208-07**			**Analyzed: 04/18/2023 13:01**						
Lead	0.100	0.00500	0.0250	mg/L		0.0744			29.7	15	R

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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/25/2023 15:09

Quality Control Results

Metals Total (EPA 6010B)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0232 - 3050B					**Prepared: 04/18/2023 14:30**						
Method Blank (B3D0232-BLK1)					**Analyzed: 04/19/2023 12:59**						
Lead	ND	0.550	5.00	mg/kg							

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100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/25/2023 15:09	

Quality Control Results

Metals Total (EPA 6010B)

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0232 - 3050B (Continued)				**Prepared: 04/18/2023 14:30**						
LCS (B3D0232-BS1)				**Analyzed: 04/19/2023 13:03**						
Lead	96.8	5.00	mg/kg	100		96.8	75-125			
LCSD (B3D0232-BSD1)				**Analyzed: 04/19/2023 13:06**						
Lead	95.7	5.00	mg/kg	99.0		96.7	75-125	1.06	15	
Duplicate (B3D0232-DUP1)	**Source: BED0011-02**			**Analyzed: 04/19/2023 13:11**						
Lead	14.9	0.550	5.00 mg/kg		9.70			42.5	20	R
Matrix Spike (B3D0232-MS1)	**Source: BED0011-02**			**Analyzed: 04/19/2023 13:14**						
Lead	96.6	0.550	5.00 mg/kg	100	9.70	86.9	75-125			
Matrix Spike Dup (B3D0232-MSD1)	**Source: BED0011-02**			**Analyzed: 04/19/2023 13:17**						
Lead	98.9	0.550	5.00 mg/kg	100	9.70	89.2	75-125	2.39	15	

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100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/25/2023 15:09

Quality Control Results

PCBs (EPA 8082)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0226 - 3550B					**Prepared: 04/18/2023 10:35**						
Method Blank (B3D0226-BLK1)					**Analyzed: 04/18/2023 12:07**						
Aroclor-1016 (PCB-1016)	ND	11.6	25.0	ug/kg							
Aroclor-1221 (PCB-1221)	ND	8.11	25.0	ug/kg							
Aroclor-1232 (PCB-1232)	ND	15.2	25.0	ug/kg							
Aroclor-1242 (PCB-1242)	ND	5.25	25.0	ug/kg							
Aroclor-1248 (PCB-1248)	ND	11.0	25.0	ug/kg							
Aroclor-1254 (PCB-1254)	ND	11.9	25.0	ug/kg							
Aroclor-1260 (PCB-1260)	ND	6.02	25.0	ug/kg							
Aroclor-1262 (PCB-1262)	ND	20.0	50.0	ug/kg							
Aroclor-1268 (PCB-1268)	ND	20.0	50.0	ug/kg							
Surrogate: Decachlorobiphenyl	*37.0*			*ug/kg*	*25.0*		*148*	*50-150*			
Surrogate: Tetrachloro-m-xylene	*27.4*			*ug/kg*	*25.0*		*110*	*50-150*			

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Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/25/2023 15:09	

Quality Control Results

PCBs (EPA 8082)

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0226 - 3550B (Continued)				**Prepared: 04/18/2023 10:35**						
LCS (B3D0226-BS1)				**Analyzed: 04/18/2023 11:29**						
Aroclor-1016 (PCB-1016)	188	25.0	ug/kg	250		75.2	40.3-151			
Aroclor-1260 (PCB-1260)	275	25.0	ug/kg	250		110	39.4-151			
Surrogate: Decachlorobiphenyl	*30.6*		*ug/kg*	*25.0*		*123*	*50-150*			
Surrogate: Tetrachloro-m-xylene	*23.0*		*ug/kg*	*25.0*		*92.1*	*50-150*			
LCSD (B3D0226-BSD1)				**Analyzed: 04/18/2023 11:48**						
Aroclor-1016 (PCB-1016)	195	25.0	ug/kg	250		77.9	40.3-151	3.51	30	
Aroclor-1260 (PCB-1260)	301	25.0	ug/kg	250		120	39.4-151	9.15	30	
Surrogate: Decachlorobiphenyl	*32.7*		*ug/kg*	*25.0*		*131*	*50-150*			
Surrogate: Tetrachloro-m-xylene	*23.5*		*ug/kg*	*25.0*		*93.9*	*50-150*			

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Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/25/2023 15:09

Qualifiers and Definitions

Item	Qualifiers
J	Analyte was detected. However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Reporting Limit (RL).
R	The RPD was outside of QC acceptance limits due to possible matrix interference.

Item	Definitions
% wt	Percent Weight
%REC	Percent Recovery
°F	Degrees Fahrenheit
AETL	American Environmental Testing Laboratory, LLC
C	Carbon
CARB	California Air Resources Board
COC	Chain of Custody
Cresols	3-methylphenol/4-methylphenol coelute and cannot be chromatographically separated. Due to this coeluting isomer pair phenomenon, the laboratory uses a single cresol (4-methylphenol) as calibration standard for 3-methylphenol/4-methylphenol.
CRM	Certified Reference Material
DPD	Department of Planning and Development
DRO	Diesel Range Organics
Dup	Duplicate
ELAP	Environmental Laboratory Accreditation Program
EPA	Environmental Protection Agency
GC/FID	Gas Chromatography Flame Ionization Detection
GRO	Gasoline Range Organics
HC	Hydrocarbon
HEM	Hexane Extractable Material
HMU	Hazardous Material Unit
ICP/MS	Inductively Coupled Plasma Mass Spectrometry
LACSD	Los Angeles County Sanitation Districts
LCS	Laboratory Control Sample - A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes.
LCSD	Laboratory Control Sample Duplicate - A replicate of Laboratory Control Sample.
LOQ	Limit of Quantitation
MDL	Method Detection Limit - The minimum measured concentration of a substance that can be reported with 99% confidence. MDL is statistically derived number which is specific for each instrument, each method and each compound.
mg/kg	Miligrams per Kilogram
mg/L	Miligrams per Liter
ml/L/hr	Milliliter per Liter per Hour
MRO	Motor oil Range Organics

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MS	Matrix Spike - A sample prepared, taken through all sample preparation and analytical steps of the procedure and analyzed as an independent test results.
MSD	Matrix Spike Duplicate - A replicate of Matrix Spike Sample.
N	No
ND	Analyte is not detected below Method Detection Limit.
ng/m3	Nanograms per cubic meter
NIOSH	National Institute for Occupational Safety and Health
nL/L	Nanoliters per Liter
NTU	Nephelometric Turbidity Units
Ohm-cm	Ohms per centimeter
ORO	Oil Range Organics
OSHA	Occupational Safety and Health Administration
PCB	Polychlorinated Biphenyl
PSU	Practical Salinity Unit
RL	Reporting Limit - The lowest concentration at which an analyte can be detected in a sample and its concentration can be reported with a specified degree of confidence, accuracy and precision. For usage at AETL, RL is equivalant to LOQ.
RPD	Relative Percent Difference
SIM	Selective Ion Monitoring
SM	Standard Method
SPLP	Synthetic Precipitation Leaching Procedure
STLC	Soluble Threshold Limit Concentration
TCLP	Toxicity Characteristic Leaching Procedure
TPH	Total Petroleum Hydrocarbons
TTLC	Total Threshold Limit Concentrations
ug/kg	Micrograms per Kilogram
ug/L	Micrograms per Liter
ug/m3	Micrograms per cubic meter
WET	Waste Extraction Test
Y	Yes
ZHE	Zero Headspace Extraction

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BULK ASBESTOS FIBER ANALYSIS
BY POLARIZED LIGHT MICROSCOPY

NVLAP TESTING
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Client Name: American Environmental Testing Laboratory
Project Manager: Joe Sevrean
Client Address: 2840 North Naomi Street Burbank, CA 91504
Project Number: BED0011/ SMPL-35255
Project Location: No Information Provided

Lab Batch Number: 2307560
Samples Submitted: 6
Samples Analyzed: 6
Analysis Method: EPA 600/R-93-116 & EPA 600/M4-82-020

Lab ID: 230756001 **Client ID:** BED0011-29

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Brown soil sandy material	**None Detected**	Cellulose <1%	Binder/Filler, Mineral Grains

Lab ID: 230756002 **Client ID:** BED0011-31

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Brown soil sandy material	**None Detected**	Cellulose <1%	Binder/Filler, Mineral Grains

Lab ID: 230756003 **Client ID:** BED0011-34

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Brown soil sandy material	**None Detected**	Cellulose <1%	Binder/Filler, Mineral Grains

Lab ID: 230756004 **Client ID:** BED0011-35

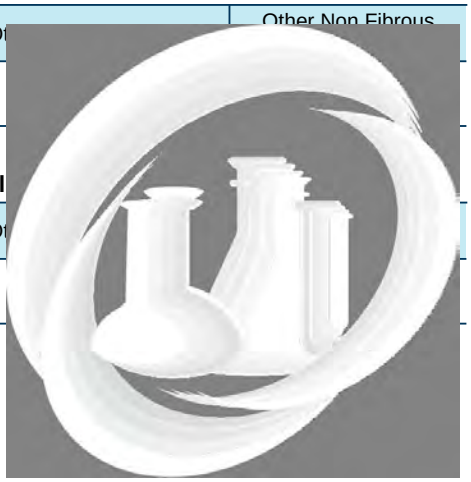
Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Brown soil sandy material	**None Detected**	Cellulose <1%	Binder/Filler, Mineral Grains

Lab ID: 230756005 **Client ID:** BED0011-38

Layer	Layer Description	Asbestos Type %	Ot	Other Non Fibrous
1.	Brown soil sandy material	**None Detected**		

Lab ID: 230756006 **Cl**

Layer	Layer Description	Asbestos Type %	Ot
1.	Brown soil sandy material	**None Detected**	



AIH LABORATORY
2556 W Woodland Dr Anaheim, CA 92801

BULK ASBESTOS FIBER ANALYSIS

BY POLARIZED LIGHT MICROSCOPY

NVLAP TESTING
NVLAP LAB CODE 500079-0
Phone:(562) 860-2201
www.aihlab.com

Client Name: American Environmental Testing Laboratory
Project Manager: Joe Sevrean
Client Address: 2840 North Naomi Street Burbank, CA 91504
Project Number: BED0011/ SMPL-35255
Project Location: No Information Provided

Lab Batch Number: 2307560
Samples Submitted: 6
Samples Analyzed: 6
Analysis Method: EPA 600/R-93-116 & EPA 600/M4-82-020

Analyzed by: Don Nguyen **Signature:** **Date:** 04-07-2023

Reviewed by: Zubair Ahmed **Signature:** **Date:** 04-07-2023

Reporting limit is 1%. If the sample was not collected by AIH Laboratory then the accuracy of the results is limited by the methodology and experience of the sample collector. Clients can verify specific reporting limit requirement from local regulatory agencies. Liability limited to cost of samples analysis. This report shall not be reproduced except in full, without written approval of AIH Laboratory. It shall not be used to claim product endorsement by NVLAP or any other agency of the government. Reported results relate only to the samples tested and may not be the representative of the sample area. AIH Laboratory shall dispose of the Customer's samples 14 days after receiving the samples unless instructed to store them for an alternate period of time in writing.



Lab Notes at Page 2

Orange Coast Analytical, Inc.
3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (480) 736-0960 Fax (480) 736-0970

LABORATORY REPORT FORM

ORANGE COAST ANALYTICAL, INC.

3002 Dow Suite 532 Tustin, CA 92780

(714) 832-0064

Laboratory Certification (ELAP) No.:2576
Expiration Date: 2023
Los Angeles County Sanitation District Lab ID# 10206

Laboratory Director's Name:
Mark Noorani

Client:	American Environmental Testing Laboratory
Laboratory Reference:	AETL 27824
Project Name:	BED0011
Project Number:	
Date Received:	4/5/2023
Date Reported:	4/11/2023
Chain of Custody Received:	☑
Analytical Method:	6020,

Mark Noorani, Laboratory Director

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Rev1.0

Ms. Hailley Coleman
American Environmental Testing Laboratory
2840 Naomi St
Burbank, CA, 91504

Lab Reference #: AETL 27824
Project Name: BED0011
Project #:

Case Narrative

Sample Receipt:

All samples on the Chain of Custody were received by OCA at 6ºC, on ice.

Holding Times:

All samples were analyzed within required holding times unless otherwise noted in the data qualifier section of the report.

Analytical Methods:

Sample analysis was performed following the analytical methods listed on the cover page.

Data Qualifiers:

Within this report, data qualifiers may have been assigned to clarify deviations in common laboratory procedures or any divergence from laboratory QA/QC criteria. If a data qualifier has been used, it will appear in the back of the report along with its description. All method QA/QC criteria have been met unless otherwise noted in the data qualifier section.

Definition of Terms:

The definitions of common terms and acronyms used in the report have been placed at the back of the report to assist data users.

Comments:

None

Ms. Hailley Coleman
American Environmental Testing Laboratory
2840 Naomi St
Burbank, CA, 91504

Lab Reference #: AETL 27824
Project Name: BED0011
Project #:

Client Sample Summary

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0011-01	27824-001	4/5/2023	4/4/2023	Soil
BED0011-04	27824-002	4/5/2023	4/4/2023	Soil
BED0011-07	27824-003	4/5/2023	4/4/2023	Soil
BED0011-10	27824-004	4/5/2023	4/4/2023	Soil
BED0011-13	27824-005	4/5/2023	4/4/2023	Soil
BED0011-16	27824-006	4/5/2023	4/4/2023	Soil
BED0011-17	27824-007	4/5/2023	4/4/2023	Soil
BED0011-20	27824-008	4/5/2023	4/4/2023	Soil
BED0011-23	27824-009	4/5/2023	4/4/2023	Soil
BED0011-26	27824-010	4/5/2023	4/4/2023	Soil
BED0011-29	27824-011	4/5/2023	4/4/2023	Soil
BED0011-31	27824-012	4/5/2023	4/4/2023	Soil
BED0011-34	27824-013	4/5/2023	4/4/2023	Soil
BED0011-35	27824-014	4/5/2023	4/4/2023	Soil
BED0011-38	27824-015	4/5/2023	4/4/2023	Soil
BED0011-41	27824-016	4/5/2023	4/4/2023	Soil

Ms. Hailley Coleman
American Environmental Testing Laboratory
2840 Naomi St
Burbank, CA, 91504

Lab Reference #: AETL 27824
Project Name: BED0011
Project #:

Metals

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0011-01	27824-001	4/5/2023 11:44	4/4/2023 10:49	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	12	mg/kg	04/06/23 16:00	04/10/23 12:17	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0011-04	27824-002	4/5/2023 11:44	4/4/2023 8:18	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	34	mg/kg	04/06/23 16:00	04/10/23 12:46	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0011-07	27824-003	4/5/2023 11:44	4/4/2023 7:27	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	5.1	mg/kg	04/06/23 16:00	04/10/23 12:51	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0011-10	27824-004	4/5/2023 11:44	4/4/2023 7:50	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	8.7	mg/kg	04/06/23 16:00	04/10/23 12:55	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0011-13	27824-005	4/5/2023 11:44	4/4/2023 14:52	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	20	mg/kg	04/06/23 16:00	04/10/23 12:59	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0011-16	27824-006	4/5/2023 11:44	4/4/2023 9:10	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	18	mg/kg	04/06/23 16:00	04/10/23 13:03	--	1

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Ms. Hailley Coleman
American Environmental Testing Laboratory
2840 Naomi St
Burbank, CA, 91504

Lab Reference #: AETL 27824
Project Name: BED0011
Project #:

Metals

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0011-17	27824-007	4/5/2023 11:44	4/4/2023 9:15	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	21	mg/kg	04/06/23 16:00	04/10/23 13:07	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0011-20	27824-008	4/5/2023 11:44	4/4/2023 10:05	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	13	mg/kg	04/06/23 16:00	04/10/23 13:12	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0011-23	27824-009	4/5/2023 11:44	4/4/2023 11:20	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	6.2	mg/kg	04/06/23 16:00	04/10/23 13:16	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0011-26	27824-010	4/5/2023 11:44	4/4/2023 11:52	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	5.2	mg/kg	04/06/23 16:00	04/10/23 13:20	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0011-29	27824-011	4/5/2023 11:44	4/4/2023 8:49	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	11	mg/kg	04/06/23 16:00	04/10/23 13:33	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0011-31	27824-012	4/5/2023 11:44	4/4/2023 12:58	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	9.7	mg/kg	04/06/23 16:00	04/10/23 13:37	--	1

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Ms. Hailley Coleman
American Environmental Testing Laboratory
2840 Naomi St
Burbank, CA, 91504

Lab Reference #: AETL 27824
Project Name: BED0011
Project #:

Metals

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0011-34	27824-013	4/5/2023 11:44	4/4/2023 13:52	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	13	mg/kg	04/06/23 16:00	04/10/23 13:41	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0011-35	27824-014	4/5/2023 11:44	4/4/2023 13:57	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	21	mg/kg	04/06/23 16:00	04/10/23 13:45	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0011-38	27824-015	4/5/2023 11:44	4/4/2023 14:17	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	21	mg/kg	04/06/23 16:00	04/10/23 13:49	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0011-41	27824-016	4/5/2023 11:44	4/4/2023 14:32	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	33	mg/kg	04/06/23 16:00	04/10/23 13:54	--	1

Method Blank						Soil	
MB ID	**ANALYTE**	**EPA Method**	**Result**	**Units**	**Date Extracted**	**Date Analyzed**	**Qual**	**DF**
MBIR0406231	Arsenic	6020	<1.0	mg/kg	04/06/23 16:00	04/10/23 12:05	--	1

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QA/QC Report
for
Metals

Reference #: AETL 27824 Reporting units: ppm

Matrix Spike (MS) / Matrix Spike Duplicate (MSD) **6020**

Laboratory Sample #: 27824-001 **Date of Extraction:** 04/06/23 16:00

Analyte	MS Date of Analysis	MSD Date of Analysis	R1	SPC CONC	MS	MSD	% MS	% MSD	RPD	ACP %MS	ACP RPD	Qualifiers
Arsenic	04/10/23 12:21	04/10/23 12:26	12.0	20.0	30.8	30.2	94	91	2	75-125	20	--

Laboratory Control Spike (LCS) / Laboratory Control Spike Duplicate (LCSD) **6020**

Laboratory Sample #: IR0406231 **Date of Extraction:** 04/06/23 16:00

Analyte	LCS Date of Analysis	LCSD Date of Analysis		SPC CONC	LCS	LCSD	% LCS	% LCSD	RPD	ACP %LCS	ACP RPD	Qualifiers
Arsenic	04/10/23 12:09	04/10/23 12:13	--	20.0	22.2	20.9	111	104	6	80-120	20	--

Definition of terms:

R	Result of unspiked laboratory sample used for matrix spike determination.
SP CONC (or Spike Conc.)	Spike concentration added to sample or blank
MS	Matrix Spike sample result
MSD	Matrix Spike Duplicate sample result
%MS	Percent recovery of MS: {(MS-R1) / SP CONC} x100
%MSD	Percent recovery of MSD: {(MSD-R1) / SP CONC} x 100
RPD (for MS/MSD)	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2
LCS	Laboratory Control Sample result
LCSD	Laboratory Control Sample Duplicate result
%LCS	Percent recovery of LCS: {(LCS) / SP CONC} x100
%LCSD	Percent recovery of LCSD: {(LCSD) / SP CONC} x 100
RPD (for LCS/LCSD)	Relative Percent Difference: {(LCS-LCSD) / (LCS+LCSD)} x 100 x 2
ACP %LCS	Acceptable percent recovery range for Laboratory Control Samples.
ACP %MS	Acceptable percent recovery range for Matrix Spike samples
ACP RPD	Acceptable Relative Percent Difference
D	Detectable, result must be greater than zero
Qual	A checked box indicates a data qualifier was utilized and/or required for this analyte see attached explanation.
ND	Analyte Not Detected

27824

AMERICAN ENVIRONMENTAL TESTING LABORATORY, LLC
2840 North Naomi Street, Burbank, CA 91504 • ELAP# 1541 • LACSD# 10181
Telephone (888) 288-AETL • (818) 845-8200 • www.aetlab.com

SUBCONTRACT CHAIN of CUSTODY

Sending Laboratory:

AETL
AETL, LLC. 2840 N. Naomi Street
Burbank, CA 91504
Phone: 818-845-8200
Project Manager: Hailley Coleman
Email: hcoleman@aetlab.com

Subcontracted Laboratory:

Orange Coast Analytical. Inc.
3002 Dow Ave., Ste. 532
Tustin, CA 92780
Phone: (714) 832-0064
Fax:

Work Order: BED0011 PO # SUB-35254

Analysis	Due	Expires	Comments
1 Sample ID: BED0011-01 ***Soil*** ***Sampled: 04/04/2023 10:49***			
6020-As (Arsenic, total by ICP/MS)	04/11/2023	10/01/2023 10:49	
Containers Supplied:			
2 Sample ID: BED0011-04 ***Soil*** ***Sampled: 04/04/2023 08:18***			
6020-As (Arsenic, total by ICP/MS)	04/11/2023	10/01/2023 08:18	
Containers Supplied:			
3 Sample ID: BED0011-07 ***Soil*** ***Sampled: 04/04/2023 07:27***			
6020-As (Arsenic, total by ICP/MS)	04/11/2023	10/01/2023 07:27	
Containers Supplied:			
4 Sample ID: BED0011-10 ***Soil*** ***Sampled: 04/04/2023 07:50***			
6020-As (Arsenic, total by ICP/MS)	04/11/2023	10/01/2023 07:50	
Containers Supplied:			
5 Sample ID: BED0011-13 ***Soil*** ***Sampled: 04/04/2023 14:52***			
6020-As (Arsenic, total by ICP/MS)	04/11/2023	10/01/2023 14:52	

only 1 to 6
DB

Approved by: HAILLEY COLEMAN 4/4/23
AETL Project Manager — Date

Released By AETL Sample Control	Date	Received By Courier	Date
			1144
Released By Courier	4/5/23 1144 Date	Received By Subcontract Laboratory	4/5/23 Date

AMERICAN ENVIRONMENTAL TESTING LABORATORY, LLC
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Telephone (888) 288-AETL • (818) 845-8200 • www.aetlab.com

SUBCONTRACT CHAIN of CUSTODY
(Continued)

Work Order: BED0011 (Continued)

Analysis	Due	Expires	Comments
Containers Supplied:			
Sample ID: BED0011-16 ***Soil*** ***Sampled: 04/04/2023 09:10***			
6020-As (Arsenic, total by ICP/MS)	04/11/2023	10/01/2023 09:10	
Containers Supplied:			
Sample ID: BED0011-17 ***Soil*** ***Sampled: 04/04/2023 09:15***			
6020-As (Arsenic, total by ICP/MS)	04/11/2023	10/01/2023 09:15	
Containers Supplied:			
Sample ID: BED0011-20 ***Soil*** ***Sampled: 04/04/2023 10:05***			
6020-As (Arsenic, total by ICP/MS)	04/11/2023	10/01/2023 10:05	
Containers Supplied:			
Sample ID: BED0011-23 ***Soil*** ***Sampled: 04/04/2023 11:20***			
6020-As (Arsenic, total by ICP/MS)	04/11/2023	10/01/2023 11:20	
Containers Supplied:			
Sample ID: BED0011-26 ***Soil*** ***Sampled: 04/04/2023 11:52***			
6020-As (Arsenic, total by ICP/MS)	04/11/2023	10/01/2023 11:52	
Containers Supplied:			
Sample ID: BED0011-29 ***Soil*** ***Sampled: 04/04/2023 08:49***			
6020-As (Arsenic, total by ICP/MS)	04/11/2023	10/01/2023 08:49	

Approved by: _____ Date _____
AETL Project Manager

Released By AETL Sample Control	Date	Received By Courier	Date
Released By Courier	4/5/23 1144 Date	Received By Subcontract Laboratory	4/5/23 1[illegible] Date

AMERICAN ENVIRONMENTAL TESTING LABORATORY, LLC
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Telephone (888) 288-AETL • (818) 845-8200 • www.aetlab.com

SUBCONTRACT CHAIN of CUSTODY
(Continued)

Work Order: BED0011 (Continued)

Analysis	Due	Expires	Comments
Containers Supplied:			
Sample ID: BED0011-31 ***Soil*** ***Sampled: 04/04/2023 12:58***			
6020-As (Arsenic, total by ICP/MS)	04/11/2023	10/01/2023 12:58	
Containers Supplied:			
Sample ID: BED0011-34 ***Soil*** ***Sampled: 04/04/2023 13:52***			
6020-As (Arsenic, total by ICP/MS)	04/11/2023	10/01/2023 13:52	
Containers Supplied:			
Sample ID: BED0011-35 ***Soil*** ***Sampled: 04/04/2023 13:57***			
6020-As (Arsenic, total by ICP/MS)	04/11/2023	10/01/2023 13:57	
Containers Supplied:			
Sample ID: BED0011-38 ***Soil*** ***Sampled: 04/04/2023 14:17***			
6020-As (Arsenic, total by ICP/MS)	04/11/2023	10/01/2023 14:17	
Containers Supplied:			
Sample ID: BED0011-41 ***Soil*** ***Sampled: 04/04/2023 14:32***			
6020-As (Arsenic, total by ICP/MS)	04/11/2023	10/01/2023 14:32	
Containers Supplied:			

Approved by: _____ _____
AETL Project Manager — Date

Released By AETL Sample Control	Date	Received By Courier	Date
	4/5/23 1144		4/5/23 1
Released By Courier	Date	Received By Subcontract Laboratory	Date

Sample Receipt Report

Laboratory Reference: AETL 27824 Logged in by: HC

Received:	04/05/23 11:44	Company Name:	American Environmental Testing Labo
Method of Shipment:	Hand Delivered	Project Manager:	Ms. Hailley Coleman
Shipping Container:	Cooler	Project Name:	BED0011
# Shipping Containers:	1	Project #:	

Sample Quantity
16 Soil

Chain of Custody		Complete ☑	Incomplete ☐	None ☐
Samples On Ice		Yes, Wet ☑	Yes, Blue ☐	No ☐
Observed Temp. (°C):	6	Thermometer ID: IR#3	Adjusted Temp.:	6+(-0)=6
Shipping Intact		Yes ☑	N/A ☐	No ☐
Shipping Custody Seals Intact		Yes ☐	N/A ☑	No ☐
Samples Intact		Yes ☑		No ☐
Sample Custody Seals Intact		Yes ☐	N/A ☑	No ☐
Custody Seals Signed & Dated		Yes ☐	N/A ☑	No ☐
Proper Test Containers		Yes ☑		No ☐
Proper Test Preservations		Yes ☑		No ☐
Samples Within Hold Times		Yes ☑		No ☐
VOAs Have Zero Headspace		Yes ☐	N/A ☑	No ☐
Sample Labels		Complete ☑	Incomplete ☐	None ☐
Sample Information Matches COC		Yes ☑	N/A ☐	No ☐

Notes

Client Notified _____ By _____ On _____

April 10, 2023

Hailley Coleman
American Environmental Testing Laboratory, Inc.
2834 N. Naomi Street
Burbank, CA 91504

TEL: (818) 845-8200
FAX:

Workorder No.: N055812

RE: BED0011

Attention: Hailley Coleman

Enclosed are the results for sample(s) received on April 05, 2023 by ASSET Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562) 219-7435 if I can be of further assistance to your company.

Sincerely,



Ferdinand Paul Lugtu
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and ASSET Laboratories - California.

CLIENT: American Environmental Testing Laborator
Project: BED0011
Lab Order: N055812

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

All sample containers were received intact with proper chain of custody documentation.

Information on sample receipt conditions including discrepancies can be found in attached Sample Receipt Checklist Form.

Cooler temperature and sample preservation were verified upon receipt of samples if applicable.

Samples were analyzed within method holding time.

Analytical Comments for EPA 7199:

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery for Hexavalent Chromium in QC samples N055812-001A-MS/MSD possibly due to matrix interference. The associated Laboratory Control Sample (LCS) recovery was acceptable.

CLIENT: American Environmental Testing Laborator
Project: BED0011
Lab Order: N055812
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N055812-001A	BED0011-29	Soil	4/4/2023 8:49:00 AM	4/5/2023	4/10/2023
N055812-002A	BED0011-31	Soil	4/4/2023 12:58:00 PM	4/5/2023	4/10/2023
N055812-003A	BED0011-34	Soil	4/4/2023 1:52:00 PM	4/5/2023	4/10/2023
N055812-004A	BED0011-35	Soil	4/4/2023 1:57:00 PM	4/5/2023	4/10/2023
N055812-005A	BED0011-38	Soil	4/4/2023 2:17:00 PM	4/5/2023	4/10/2023
N055812-006A	BED0011-41	Soil	4/4/2023 2:32:00 PM	4/5/2023	4/10/2023

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BED0011-29
Lab Order:	N055812		
Project:	BED0011	**Collection Date:**	4/4/2023 8:49:00 AM
Lab ID:	N055812-001	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC						
EPA 3060A				**EPA 7199**		
RunID: CA01638-IC01_230406B	QC Batch: 98964			PrepDate:	4/5/2023	Analyst: **CR**
Hexavalent Chromium	ND	0.20		mg/Kg	1	4/6/2023 06:38 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BED0011-31
Lab Order:	N055812		
Project:	BED0011	**Collection Date:**	4/4/2023 12:58:00 PM
Lab ID:	N055812-002	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC						
EPA 3060A				**EPA 7199**		
RunID: CA01638-IC01_230406B	QC Batch: 98964			PrepDate:	4/5/2023	Analyst: **CR**
Hexavalent Chromium	0.53	0.20		mg/Kg	1	4/6/2023 08:21 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BED0011-34
Lab Order:	N055812		
Project:	BED0011	**Collection Date:**	4/4/2023 1:52:00 PM
Lab ID:	N055812-003	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC						
EPA 3060A				**EPA 7199**		
RunID: CA01638-IC01_230406B	QC Batch: 98964			PrepDate:	4/5/2023	Analyst: **CR**
Hexavalent Chromium	ND	0.20		mg/Kg	1	4/6/2023 08:43 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BED0011-35
Lab Order:	N055812		
Project:	BED0011	**Collection Date:**	4/4/2023 1:57:00 PM
Lab ID:	N055812-004	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC						
EPA 3060A				**EPA 7199**		
RunID: CA01638-IC01_230406B	QC Batch: 98964			PrepDate:	4/5/2023	Analyst: **CR**
Hexavalent Chromium	ND	0.20		mg/Kg	1	4/6/2023 09:06 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BED0011-38
Lab Order:	N055812		
Project:	BED0011	**Collection Date:**	4/4/2023 2:17:00 PM
Lab ID:	N055812-005	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC						
EPA 3060A				**EPA 7199**		
RunID: CA01638-IC01_230406B	QC Batch: 98964			PrepDate:	4/5/2023	Analyst: **CR**
Hexavalent Chromium	ND	0.20		mg/Kg	1	4/6/2023 09:29 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BED0011-41
Lab Order:	N055812		
Project:	BED0011	**Collection Date:**	4/4/2023 2:32:00 PM
Lab ID:	N055812-006	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC						
EPA 3060A				**EPA 7199**		
RunID: CA01638-IC01_230406B	QC Batch: 98964			PrepDate:	4/5/2023	Analyst: **CR**
Hexavalent Chromium	ND	0.20		mg/Kg	1	4/6/2023 09:52 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: American Environmental Testing Laboratory, Inc.
Work Order: N055812
Project: BED0011

ANALYTICAL QC SUMMARY REPORT

TestCode: CA_7199_S

Sample ID: **LCS-98964**	SampType: **LCS**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/5/2023**	RunNo: **171153**
Client ID: **LCSS**	Batch ID: **98964**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/6/2023**	SeqNo: **5139842**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	3.822	0.20	4.000	0	95.6	80	120				

Sample ID: **MB-98964**	SampType: **MBLK**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/5/2023**	RunNo: **171153**
Client ID: **PBS**	Batch ID: **98964**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/6/2023**	SeqNo: **5139843**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20									

Sample ID: **N055812-001A-REP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/5/2023**	RunNo: **171153**
Client ID: **ZZZZZZ**	Batch ID: **98964**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/6/2023**	SeqNo: **5139845**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20						0	0	20	

Sample ID: **N055812-001A-DUP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/5/2023**	RunNo: **171153**
Client ID: **ZZZZZZ**	Batch ID: **98964**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/6/2023**	SeqNo: **5139846**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20						0	0	20	

Sample ID: **N055812-001A-MS-I**	SampType: **MS**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/5/2023**	RunNo: **171153**
Client ID: **ZZZZZZ**	Batch ID: **98964**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/6/2023**	SeqNo: **5139850**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	680.136	20	650.8	0	105	75	125				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits

Calculations are based on raw values

- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

ANALYTICAL QC SUMMARY REPORT

TestCode: CA_7199_S

Sample ID: **N055812-002A-REP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/5/2023**	RunNo: **171153**
Client ID: **ZZZZZZ**	Batch ID: **98964**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/6/2023**	SeqNo: **5139854**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.534	0.20						0.5317	0.361	20	

Sample ID: **N055812-003A-REP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/5/2023**	RunNo: **171153**
Client ID: **ZZZZZZ**	Batch ID: **98964**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/6/2023**	SeqNo: **5139856**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.072	0.20						0.07473	0	20	

Sample ID: **N055812-004A-REP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/5/2023**	RunNo: **171153**
Client ID: **ZZZZZZ**	Batch ID: **98964**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/6/2023**	SeqNo: **5139858**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20						0	0	20	

Sample ID: **N055812-005A-REP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/5/2023**	RunNo: **171153**
Client ID: **ZZZZZZ**	Batch ID: **98964**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/6/2023**	SeqNo: **5139860**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20						0	0	20	

Sample ID: **N055812-006A-REP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/5/2023**	RunNo: **171153**
Client ID: **ZZZZZZ**	Batch ID: **98964**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/6/2023**	SeqNo: **5139862**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20						0	0	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

ANALYTICAL QC SUMMARY REPORT

TestCode: CA_7199_S

Sample ID: **N055799-001A-REP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/5/2023**	RunNo: **171153**
Client ID: **ZZZZZZ**	Batch ID: **98964**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/6/2023**	SeqNo: **5139866**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20						0	0	20	

Sample ID: **N055799-002A-REP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/5/2023**	RunNo: **171153**
Client ID: **ZZZZZZ**	Batch ID: **98964**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/6/2023**	SeqNo: **5139868**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20						0	0	20	

Sample ID: **N055801-001A-REP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/5/2023**	RunNo: **171153**
Client ID: **ZZZZZZ**	Batch ID: **98964**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/6/2023**	SeqNo: **5139870**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20						0	0	20	

Sample ID: **N055812-001A-MS**	SampType: **MS**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/5/2023**	RunNo: **171153**
Client ID: **ZZZZZZ**	Batch ID: **98964**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/7/2023**	SeqNo: **5139873**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	2.740	0.20	4.007	0	68.4	75	125				S

Sample ID: **N055812-001A-MSD**	SampType: **MSD**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/5/2023**	RunNo: **171153**
Client ID: **ZZZZZZ**	Batch ID: **98964**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/7/2023**	SeqNo: **5139874**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	2.720	0.20	4.005	0	67.9	75	125	2.740	0.732	20	S

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

AMERICAN ENVIRONMENTAL TESTING LABORATORY, LLC
2840 North Naomi Street, Burbank, CA 91504 • ELAP# 1541 • LACSD# 10181
Telephone (888) 288-AETL • (818) 845-8200 • www.aetlab.com

SUBCONTRACT CHAIN of CUSTODY

Sending Laboratory:

AETL
AETL, LLC. 2840 N. Naomi Street
Burbank, CA 91504
Phone: 818-845-8200
Project Manager: Hailley Coleman
Email: hcoleman@aetlab.com

Subcontracted Laboratory:

ASSET Laboratories
11110 Artesia Blvd.
Cerritos, CA 90703
Phone: (702)307-2659
Fax: (562)219-7435

Work Order: BED0011 PO #SUB-35256

Analysis	Due	Expires	Comments
Sample ID: BED0011-29 *Soil* *Sampled: 04/04/2023 08:49*			
7199 (Chromium Hexavalent by Ion Chromatography)	04/11/2023	05/02/2023 08:49	N055812-001
Containers Supplied:			
Sample ID: BED0011-31 *Soil* *Sampled: 04/04/2023 12:58*			
7199 (Chromium Hexavalent by Ion Chromatography)	04/11/2023	05/02/2023 12:58	-002
Containers Supplied:			
Sample ID: BED0011-34 *Soil* *Sampled: 04/04/2023 13:52*			
7199 (Chromium Hexavalent by Ion Chromatography)	04/11/2023	05/02/2023 13:52	-003
Containers Supplied:			
Sample ID: BED0011-35 *Soil* *Sampled: 04/04/2023 13:57*			
7199 (Chromium Hexavalent by Ion Chromatography)	04/11/2023	05/02/2023 13:57	-004
Containers Supplied:			

CA: 5.9°C IR#1

Approved by: HAILLEY COLEMAN 4/7/23
AETL Project Manager — Date

Released By AETL Sample Control — Date 1035
Released By Courier — Date 4-5-23

Received By Courier — Date 4/5/23 1035
Received By Subcontract Laboratory — Date

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SUBCONTRACT CHAIN of CUSTODY
(Continued)

Work Order: BED0011 (Continued)

Analysis	Due	Expires	Comments
Sample ID: BED0011-38 ***Soil*** ***Sampled: 04/04/2023 14:17***			
7199 (Chromium Hexavalent by Ion Chromatography)	04/11/2023	05/02/2023 14:17	N055812-005
Containers Supplied:			
Sample ID: BED0011-41 ***Soil*** ***Sampled: 04/04/2023 14:32***			
7199 (Chromium Hexavalent by Ion Chromatography)	04/11/2023	05/02/2023 14:32	-006
Containers Supplied:			

CA: 5.8°C IR#1

Approved by: _____ Date _____
AETL Project Manager

Released By AETL Sample Control	Date 1035	Received By Courier	Date
Released By Courier	Date 4-5-23	Received By Subcontract Laboratory	Date 4/5/23 1035

ASSET Laboratories

Please review the checklist below. Any NO signifies non-compliance. Any non-compliance will be noted and must be understood as having an impact on the quality of the data. All tests will be performed as requested regardless of any compliance issues.

If you have any questions or further instruction, please contact our Project Coordinator at (702) 307-2659.

Cooler Received/Opened On:	4/5/2023	Workorder:	N055812
Rep sample Temp (Deg C):	5.8	IR Gun ID:	1
Temp Blank:	☐ Yes ☑ No		
Carrier name:	Walk-In		
Last 4 digits of Tracking No.:	NA	Packing Material Used:	None
Cooling process:	☑ Ice ☐ Ice Pack ☐ Dry Ice ☐ Other ☐ None		

Sample Receipt Checklist

1. Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
2. Custody seals intact, signed, dated on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
3. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
4. Chain of custody present?	Yes ☑	No ☐	
5. Sampler's name present in COC?	Yes ☐	No ☑	
6. Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
7. Chain of custody agrees with sample labels?	Yes ☑	No ☐	
8. Samples in proper container/bottle?	Yes ☑	No ☐	
9. Sample containers intact?	Yes ☑	No ☐	
10. Sufficient sample volume for indicated test?	Yes ☑	No ☐	
11. All samples received within holding time?	Yes ☑	No ☐	
12. Temperature of rep sample or Temp Blank within acceptable limit?	Yes ☑	No ☐	NA ☐
13. Water - VOA vials have zero headspace?	Yes ☐	No ☐	NA ☑
14. Water - pH acceptable upon receipt? Example: pH > 12 for (CN,S); pH<2 for Metals	Yes ☐	No ☐	NA ☑
15. Did the bottle labels indicate correct preservatives used?	Yes ☐	No ☐	NA ☑
16. Were there Non-Conformance issues at login?	Yes ☑	No ☐	NA ☐
Was Client notified?	Yes ☐	No ☐	NA ☑

Comments:

Checklist Completed By: MR 4/5/2023

Reviewed By:

ASSET Laboratories

WORK ORDER Summary

05-Apr-23

WorkOrder: N055812

Client ID: AETL01

Project: BED0011 **QC Level:** RTNE **Date Received:** 4/5/2023 10:35 AM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N055812-001A	BED0011-29	4/4/2023 8:49:00 AM	4/11/2023	Soil	EPA 3060A	Prep for Hexavalent Chromium	☐	☐	☐	WS-CA
			4/11/2023		EPA 7199	Hexavalent Chromium by IC	☐	☐	☐	WS-CA
N055812-002A	BED0011-31	4/4/2023 12:58:00 PM	4/11/2023		EPA 3060A	Prep for Hexavalent Chromium	☐	☐	☐	WS-CA
			4/11/2023		EPA 7199	Hexavalent Chromium by IC	☐	☐	☐	WS-CA
N055812-003A	BED0011-34	4/4/2023 1:52:00 PM	4/11/2023		EPA 3060A	Prep for Hexavalent Chromium	☐	☐	☐	WS-CA
			4/11/2023		EPA 7199	Hexavalent Chromium by IC	☐	☐	☐	WS-CA
N055812-004A	BED0011-35	4/4/2023 1:57:00 PM	4/11/2023		EPA 3060A	Prep for Hexavalent Chromium	☐	☐	☐	WS-CA
			4/11/2023		EPA 7199	Hexavalent Chromium by IC	☐	☐	☐	WS-CA
N055812-005A	BED0011-38	4/4/2023 2:17:00 PM	4/11/2023		EPA 3060A	Prep for Hexavalent Chromium	☐	☐	☐	WS-CA
			4/11/2023		EPA 7199	Hexavalent Chromium by IC	☐	☐	☐	WS-CA
N055812-006A	BED0011-41	4/4/2023 2:32:00 PM	4/11/2023		EPA 3060A	Prep for Hexavalent Chromium	☐	☐	☐	WS-CA
			4/11/2023		EPA 7199	Hexavalent Chromium by IC	☐	☐	☐	WS-CA
N055812-007A	FOLDER	4/11/2023	4/11/2023		Folder	Folder	☐	☐	☐	LAB
			4/11/2023		Folder	Folder	☐	☐	☐	LAB

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April 26, 2023

AETL Job No: BED0011.02
Received Date: 04/04/2023
Project Number: [none]

Parsons
100 West Walnut Street
Pasadena, CA 91124
Telephone: (626) 440-6200

Attention: Justin King

Project Name: Canoga Park High School
Site: 6850 CA-27
Canoga Park, CA 91303

Enclosed please find the results of analyses for samples which were analyzed as specified on the attached chain of custody. If you have any questions concerning this report, please do not hesitate to call.

Checked By: Hailley Coleman
Hailley Coleman
Project Manager

Approved By: Joe Sevrean
Joe Sevrean
Laboratory Director

Table of Contents

Client Project Name: General Soil Testing Project Number: [none]
Work Order Number: BED0011

1 Cover Letter 1
2 Sample Condition on Receipt 3
3 Chain of Custody 4
4 Cooler Receipt Forms 7
5 Case Narrative 8
6 Samples Received 9
7 Positive Hits Summary 12
8 Analytical Results 13
9 Qualifiers and Definitions 14
10 Sub Contracted Analysis 16

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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/26/2023 10:12

Sample Condition on Receipt

Cooler ID: Default Cooler **Temperature: 5.8 °C**

Are the COCs Correct	Y		
Labels Legible	Y	Containers In Good Condition	Y
COC/Labels Agree	Y	Samples Preserved Properly	Y
Sufficient Sample Volume	Y	Sufficient Holding Time for all Tests	Y
Sample Labels intact	Y	Received on Ice	Y

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

American Environmental Testing Laboratory Inc.

2834 & 2908 North Naomi Street, Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

CHAIN OF CUSTODY RECORD

108491

COMPANY: Parsons
PROJECT MANAGER: Justin Ling
COMPANY ADDRESS: 100 W. Walnut St. Pasadena, CA 91124
PHONE: (310) 809-5793
FAX:
PROJECT NAME: Canoga Park Highschool
PROJECT #:
SITE NAME AND ADDRESS: 6850 CA-27, Canoga Park, CA 91303
PO #:

AETL JOB No. BE00011

	SAMPLE ID	LAB ID	DATE	E.P. TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	OCPs (8081A)	STLC-Pb	TLLP-Pb	TEST INSTRUCTIONS & COMMENTS
1	SB-1-D0.5	BE00011-01	1049	4/4/23	Soil	1x9oz	NONE	X	X	X	X	X	
2	SB-1-D2.0	-02	4/4/2023	1053				X	X				Hold
3	SB-1-D3.0	-03		1057				X	X				Hold
4	SB-5-D0.5	-04		0818				X	X	X			
5	SB-5-D2.0	-05		0823					X				Hold
6	SB-5-D3.0	-06		0830					X				Hold
7	SB-8-D0.5	-07		0727				X	X	X			
8	SB-8-D2.0	-08		0730									Hold
9	SB-8-D3.0	-09		0735									Hold
10	SB-12-D0.5	-10		0750				X	X	X			
11	SB-12-D2.0	-11		0755									Hold
12	SB-12-D3.0	-12		0802			EDF	X					Hold
13	SB-50-D0.5	-13		1452				X	X	X			
14	SB-50-D2.0	-14		1455					X				Hold
15	SB-50-D3.0	-15		1458					X				Hold

ANALYSIS REQUESTED

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y/ N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

TURN AROUND TIME

☑ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY ☑ PDF ☐ GEOTRACKER (GLOBAL ID) _____ ☐ OTHER (PLEASE SPECIFY) _____

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: E. Dabys	Signature:	Signature:
Printed Name: Edward Dabys	Printed Name:	Printed Name:
Date: 4/4/2023 Time: 1600	Date: Time:	Date: Time:
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: 3.**
Signature:	Signature:	Signature: Joe Sevrens
Printed Name:	Printed Name:	Printed Name: Joe Sevrens
Date: Time:	Date: Time:	Date: 4/4/2023 Time: 1600

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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CHAIN OF CUSTODY RECORD

108490

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut St. Pasadena, CA 91124
PHONE / FAX: (310) 809-5793
PROJECT NAME: Canoga Park High School
PROJECT #:
SITE NAME AND ADDRESS: 6850 CA-27, Canoga Park, CA 91303
PO#:

AETL JOB No. BED0011

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1	SB-3-D0.5	BE00011-16	4/4/2023	0910	Soil	1x 9oz + 4 Vials	—
2	SB-3-D0.5-DUP	-17		0915			
3	SB-3-D2.0	-18		0935			
4	SB-3-D3.0	-19		0945			
5	SB-2-D0.5	-20		1005			
6	SB-2-D2.0	-21		1020			
7	SB-2-D3.0	-22		1030			
8	SB-37-D0.5	-23		1120			
9	SB-37-D2.0	-24		1130			
10	SB-37-D3.0	-25		1135			
11	SB-36-D0.5	-26		1152			
12	SB-36-D2.0	-27		1202			
13	SB-36-D3.0	-28	▼	1212	▼	▼	▼
14							
15							

ANALYSIS REQUESTED

	Lead (6010B)	Arsenic (6020)	OCPs (8081A)	VOCs (8260B)	TPH (8270C)	STLC-Pb	TCLP-Pb				TEST INSTRUCTIONS & COMMENTS
1	X	X	X	X	X	X	X				
2	X	X	X	X	X	X	X				Duplicate
3	X	X									Hold
4	X	X									Hold
5	X	X	X	X	X						
6		X									Hold
7		X									Hold
8	X	X	X	X	X						
9											Hold
10											Hold
11	X	X	X	X	X						
12											Hold
13											Hold
14											
15											

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y/ N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

TURN AROUND TIME

☑ NORMAL ☐ RUSH
☐ SAME DAY
☐ NEXT DAY
☐ 2 DAYS
☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY
☑ PDF
☐ GEOTRACKER (GLOBAL ID) _____
☐ OTHER (PLEASE SPECIFY) _____

	RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:	E. Dabsys		
Printed Name:	Edward Dabsys		
Date / Time:	4/4/2023 1600		

	RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: 3.
Signature:			Joe Sevreau
Printed Name:			Joe Sevreau
Date / Time:			4/4/2023 1600

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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CHAIN OF CUSTODY RECORD

108493

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut Street Pasadena, CA 91124
PHONE / FAX: (310) 809-5793
PROJECT NAME: Canoga Park Highschool
PROJECT #:
SITE NAME AND ADDRESS: 6850 CA-27, Canoga Park, CA 91303
PO #:

AETL JOB No. BE00011

Page 3 of 3

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1	SB-4-D0.5	BE00011-29	4/4/2023	0849	soil	1x9oz + 2x2oz	none
2	SB-4-D2.0	-30		0855			
3	SB-22-D0.5	-31		1258			
4	SB-22-D2.0	-32		1304		1x9oz	
5	SB-22-D3.0	-33		1307		1x9oz	
6	SB-53-D0.5	-34		1352		1x9oz + 2x2oz	
7	SB-53-D0.5-DUP	-35		1357		1x9oz + 2x2oz	
8	SB-53-D2.0	-36		1359		1x9oz	
9	SB-53-D3.0	-37		1401			
10	SB-52-D0.5	-38		1417			
11	SB-52-D2.0	-39		1420			
12	SB-52-D3.0	-40		1424			
13	SB-51-D0.5	-41		1432			
14	SB-51-D2.0	-42		1434			
15	SB-51-D3.0	-43		1437			

ANALYSIS REQUESTED

	Lead (6010B)	Arsenic (6020)	OCPs (8081A)	PCBs (8270C)	Asbestos (PLM)	PAHs (8270C)	Cr VI (7199)	CdTMi (6010B)	Mercury (7470A)	TEST INSTRUCTIONS & COMMENTS
1	X	X	X	X	X	X	X	X	X	
2										Hold
3	X	X	X	X	X	X	X	X	X	
4				X			X			Hold
5				X			X			Hold
6	X	X	X	X	X	X	X	X	X	
7	X	X	X	X	X	X	X	X	X	Duplicate
8		X								Hold
9		X								Hold
10	X	X	X	X	X	X	X	X	X	
11		X								Hold
12		X								Hold
13	X	X	X	X	X	X	X	X	X	
14		X								Hold
15		X								Hold

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y/ N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

TURN AROUND TIME

☑ NORMAL ☐ RUSH
☐ SAME DAY
☐ NEXT DAY
☐ 2 DAYS
☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY
☑ PDF
☐ GEOTRACKER (GLOBAL ID) _____
☐ OTHER (PLEASE SPECIFY) _____

	RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature	E. Dubey		
Printed Name	Edward Dubey		
Date / Time	4/4/2023 1600		
	RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: 3.**
Signature			Joe Severeo
Printed Name			Joe Severeo
Date / Time			4/4/2023 1600

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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COOLER RECEIPT FORM

Client Name: Parsons

Project Name: Canoga Park High School Project No.:

AETL Job Number: BED0011

Date Received: 04-04-23 Received by: Joe Sevrean

Carrier: ☑ AETL Courier ☐ Client ☐ GSL ☐ FedEx ☐ UPS
☐Others:

Samples were received in: ☑ Cooler (__2_____) ☐ Other (Specify):

Sample Container Temperature: __5.8__ °C IR Gun S/N: 51941911MV

Type of sample containers: ☐ VOA, ☐ Glass bottles, ☑Wide mouth jars, ☐HDPE bottles, ☐ Metal sleeves, ☐ Acetate sleeves, ☐ 5035 Kit: ☐ AETL or ☐ Client, ☐ Tedlar Bags, Summa Canister: ☐ 6L, ☐ 3L, ☐ 1L, Others (Specify): _____

How are samples preserved: ☐ None, ☑ Ice, ☐ Blue Ice, ☐ Dry Ice
☑ None, ☐ HNO_3, ☐ NaOH, ☐ ZnOAc, ☐ HCl, ☐ $Na_2S_2O_3$, ☐ MeOH, ☐ $NaHSO_4$
☐ Other (Specify):

	Yes	No	N/A	Note or Comment
1. Are the COCs Correct?	✔			
2. Are Sample labels legible & indelible ink?	✔			
3. Do samples match the COC?	✔			
4. Are the required analyses clear?	✔			
5. Is there enough samples for required analysis?	✔			
6. Does cooler or samples have custody seal(s)?			✔	
7. Are sample containers in good condition?	✔			
8. Are samples preserved?	✔			
9. Are samples preserved properly for the intended analysis?	✔			
10. Are the VOAs free of headspace? See footnote.			✔	
11. Are the jars free of headspace?			✔	

* = see note below. N/A = Not Applicable

PLEASE NOTE ALL SAMPLES WILL BE DISPOSED OF 30 DAYS AFTER RECEIVING DATE. IF AETL IS INFORMED OTHERWISE, THERE WILL BE A STORAGE CHARGE PER SAMPLE PER MONTH FOR ANY SAMPLE HELD BEYOND 30 DAYS.

◯ Example maximum headspace bubble size; acceptance criteria not to exceed 5-6 mm in diameter.

For headspace bubbles exceeding 6 mm in diameter, sample receiving will tag the VOA and notify the Project Manager. The Project Manager will contact client for Analyze or Resample instructions.

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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/26/2023 10:12

Case Narrative

The following "Sample Received" Section summarizes the samples received and associated analyses requested as specified on the enclosed chain of custody.

Results as reported by the laboratory apply only to 1) the items tested, 2) as the samples are received, and 3) the accuracy of information provided. Information supplied by the customer that may affect validity of results and may be contained in this report include Project Name/Number, Site Location, Sample Locations, Sampling Dates/Times, Sample ID, Sample Preservation, Sample Matrix, Sample Properties, Field Blanks, Field Duplicates, Field Spikes, and Site Historical Data.

Accreditation applies only to the test methods listed on each scope of accreditation held by the laboratory; certifications held by the laboratory may not apply to results supplied in this report.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

Qualifiers are noted in the report.

The samples were subcontracted to Orange Coast Analytical, Inc. for EPA 6020. Please see attached report for results.

The samples were subcontracted to Asset Laboratories for EPA 7199. Please see attached report for results.

The samples were subcontracted to AIH Laboratories for EPA 600R-93/116. Please see attached report for results.

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/26/2023 10:12	

Samples Received

AETL received the following samples on 04/04/2023 with the following specifications

Client ID	Sample Date
SB-1-D2.0	04/4/2023 10:53

Lab ID	Matrix	Quantity of Containers
BED0011-02	Soil	1

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Client ID	Sample Date
SB-5-D2.0	04/4/2023 8:23

Lab ID	Matrix	Quantity of Containers
BED0011-05	Soil	1

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Client ID	Sample Date
SB-50-D2.0	04/4/2023 14:55

Lab ID	Matrix	Quantity of Containers
BED0011-14	Soil	1

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Client ID	Sample Date
SB-3-D2.0	04/4/2023 9:35

Lab ID	Matrix	Quantity of Containers
BED0011-18	Soil	5

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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A KYZER LABS COMPANY

Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/26/2023 10:12	

Samples Received

(Continued)

AETL received the following samples on 04/04/2023 with the following specifications

Client ID: SB-2-D2.0 **Sample Date:** 04/4/2023 10:20
Lab ID: BED0011-21 **Matrix:** Soil **Quantity of Containers:** 5

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Client ID: SB-22-D2.0 **Sample Date:** 04/4/2023 13:04
Lab ID: BED0011-32 **Matrix:** Soil **Quantity of Containers:** 1

Method	Analyte	Units	TAT
EPA 7199	Chromium Hexavalent by Ion Chromatography	mg/kg	5

Client ID: SB-53-D2.0 **Sample Date:** 04/4/2023 13:59
Lab ID: BED0011-36 **Matrix:** Soil **Quantity of Containers:** 1

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Client ID: SB-52-D2.0 **Sample Date:** 04/4/2023 14:20
Lab ID: BED0011-39 **Matrix:** Soil **Quantity of Containers:** 3

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/26/2023 10:12	

Samples Received

(Continued)

AETL received the following samples on 04/04/2023 with the following specifications

Client ID	Sample Date
SB-51-D2.0	04/4/2023 14:34

Lab ID	Matrix	Quantity of Containers
BED0011-42	Soil	1

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Total Number of Samples received: 9

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/26/2023 10:12

Positive Hits Summary

Lab ID	Client ID					Sampled
Method	Analyte	Result	Qualifier	Unit		Analyzed

No positive results reported

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/26/2023 10:12

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/26/2023 10:12

Qualifiers and Definitions

Item	Definitions
% wt	Percent Weight
%REC	Percent Recovery
°F	Degrees Fahrenheit
AETL	American Environmental Testing Laboratory, LLC
C	Carbon
CARB	California Air Resources Board
COC	Chain of Custody
Cresols	3-methylphenol/4-methylphenol coelute and cannot be chromatographically separated. Due to this coeluting isomer pair phenomenon, the laboratory uses a single cresol (4-methylphenol) as calibration standard for 3-methylphenol/4-methylphenol.
CRM	Certified Reference Material
DPD	Department of Planning and Development
DRO	Diesel Range Organics
Dup	Duplicate
ELAP	Environmental Laboratory Accreditation Program
EPA	Environmental Protection Agency
GC/FID	Gas Chromatography Flame Ionization Detection
GRO	Gasoline Range Organics
HC	Hydrocarbon
HEM	Hexane Extractable Material
HMU	Hazardous Material Unit
ICP/MS	Inductively Coupled Plasma Mass Spectrometry
LACSD	Los Angeles County Sanitation Districts
LCS	Laboratory Control Sample - A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes.
LCSD	Laboratory Control Sample Duplicate - A replicate of Laboratory Control Sample.
LOQ	Limit of Quantitation
MDL	Method Detection Limit - The minimum measured concentration of a substance that can be reported with 99% confidence. MDL is statistically derived number which is specific for each instrument, each method and each compound.
mg/kg	Miligrams per Kilogram
mg/L	Miligrams per Liter
ml/L/hr	Milliliter per Liter per Hour
MRO	Motor oil Range Organics
MS	Matrix Spike - A sample prepared, taken through all sample preparation and analytical steps of the procedure and analyzed as an independent test results.
MSD	Matrix Spike Duplicate - A replicate of Matrix Spike Sample.
N	No
ND	Analyte is not detected below Method Detection Limit.
ng/m3	Nanograms per cubic meter

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/26/2023 10:12

NIOSH	National Institute for Occupational Safety and Health
nL/L	Nanoliters per Liter
NTU	Nephelometric Turbidity Units
Ohm-cm	Ohms per centimeter
ORO	Oil Range Organics
OSHA	Occupational Safety and Health Administration
PCB	Polychlorinated Biphenyl
PSU	Practical Salinity Unit
RL	Reporting Limit - The lowest concentration at which an analyte can be detected in a sample and its concentration can be reported with a specified degree of confidence, accuracy and precision. For usage at AETL, RL is equivalant to LOQ.
RPD	Relative Percent Difference
SIM	Selective Ion Monitoring
SM	Standard Method
SPLP	Synthetic Precipitation Leaching Procedure
STLC	Soluble Threshold Limit Concentration
TCLP	Toxicity Characteristic Leaching Procedure
TPH	Total Petroleum Hydrocarbons
TTLC	Total Threshold Limit Concentrations
ug/kg	Micrograms per Kilogram
ug/L	Micrograms per Liter
ug/m3	Micrograms per cubic meter
WET	Waste Extraction Test
Y	Yes
ZHE	Zero Headspace Extraction

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

April 25, 2023

Hailley Coleman
American Environmental Testing Laboratory, Inc.
2834 N. Naomi Street
Burbank, CA 91504

TEL: (818) 845-8200
FAX:

Workorder No.: N056032

RE: BED0011.01

Attention: Hailley Coleman

Enclosed are the results for sample(s) received on April 18, 2023 by ASSET Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562) 219-7435 if I can be of further assistance to your company.

Sincerely,

for

Ferdinand Paul Lugtu
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and ASSET Laboratories - California.

CLIENT: American Environmental Testing Laborator
Project: BED0011.01
Lab Order: N056032

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

All sample containers were received intact with proper chain of custody documentation.

Information on sample receipt conditions including discrepancies can be found in attached Sample Receipt Checklist Form.

Cooler temperature and sample preservation were verified upon receipt of samples if applicable.

Samples were analyzed within method holding time.

Analytical Comments for EPA 6020:

Matrix Spike (MS) is outside recovery criteria for Arsenic in QC sample N056032-001A-MS possibly due to matrix interference. The associated Laboratory Control Sample (LCS) recovery was acceptable.

CLIENT: American Environmental Testing Laborator
Project: BED0011.01
Lab Order: N056032
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N056032-001A	BED0011-02	Soil	4/4/2023 10:53:00 AM	4/18/2023	4/25/2023
N056032-002A	BED0011-05	Soil	4/4/2023 8:23:00 AM	4/18/2023	4/25/2023
N056032-003A	BED0011-14	Soil	4/4/2023 2:55:00 PM	4/18/2023	4/25/2023
N056032-004A	BED0011-18	Soil	4/4/2023 9:35:00 AM	4/18/2023	4/25/2023
N056032-005A	BED0011-21	Soil	4/4/2023 10:20:00 AM	4/18/2023	4/25/2023
N056032-006A	BED0011-32	Soil	4/4/2023 1:04:00 PM	4/18/2023	4/25/2023
N056032-007A	BED0011-36	Soil	4/4/2023 1:59:00 PM	4/18/2023	4/25/2023
N056032-008A	BED0011-39	Soil	4/4/2023 2:20:00 PM	4/18/2023	4/25/2023
N056032-009A	BED0011-42	Soil	4/4/2023 2:34:00 PM	4/18/2023	4/25/2023

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BED0011-02
Lab Order:	N056032		
Project:	BED0011.01	**Collection Date:**	4/4/2023 10:53:00 AM
Lab ID:	N056032-001	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230420B	QC Batch: 99270			PrepDate:	4/19/2023	Analyst: **DJ**
Arsenic	37	0.50		mg/Kg	1	4/20/2023 02:25 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BED0011-05
Lab Order:	N056032		
Project:	BED0011.01	**Collection Date:**	4/4/2023 8:23:00 AM
Lab ID:	N056032-002	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230420B	QC Batch: 99270			PrepDate:	4/19/2023	Analyst: **DJ**
Arsenic	6.4	0.50		mg/Kg	1	4/20/2023 02:48 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BED0011-14
Lab Order:	N056032		
Project:	BED0011.01	**Collection Date:**	4/4/2023 2:55:00 PM
Lab ID:	N056032-003	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230420B	QC Batch: 99270			PrepDate:	4/19/2023	Analyst: **DJ**
Arsenic	7.5	0.50		mg/Kg	1	4/20/2023 02:53 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BED0011-18
Lab Order:	N056032		
Project:	BED0011.01	**Collection Date:**	4/4/2023 9:35:00 AM
Lab ID:	N056032-004	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230420B	QC Batch: 99270			PrepDate:	4/19/2023	Analyst: **DJ**
Arsenic	15	0.50		mg/Kg	1	4/20/2023 03:11 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BED0011-21
Lab Order:	N056032		
Project:	BED0011.01	**Collection Date:**	4/4/2023 10:20:00 AM
Lab ID:	N056032-005	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230420B	QC Batch: 99270			PrepDate:	4/19/2023	Analyst: **DJ**
Arsenic	28	0.50		mg/Kg	1	4/20/2023 03:16 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BED0011-32
Lab Order:	N056032		
Project:	BED0011.01	**Collection Date:**	4/4/2023 1:04:00 PM
Lab ID:	N056032-006	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC						
EPA 3060A				**EPA 7199**		
RunID: CA01638-IC01_230419A	QC Batch: 99253			PrepDate:	4/18/2023	Analyst: **CR**
Hexavalent Chromium	ND	0.20		mg/Kg	1	4/19/2023 08:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BED0011-36
Lab Order:	N056032		
Project:	BED0011.01	**Collection Date:**	4/4/2023 1:59:00 PM
Lab ID:	N056032-007	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230420B	QC Batch: 99270			PrepDate:	4/19/2023	Analyst: **DJ**
Arsenic	4.8	0.50		mg/Kg	1	4/20/2023 03:21 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BED0011-39
Lab Order:	N056032		
Project:	BED0011.01	**Collection Date:**	4/4/2023 2:20:00 PM
Lab ID:	N056032-008	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230420B	QC Batch: 99270			PrepDate:	4/19/2023	Analyst: **DJ**
Arsenic	7.0	0.50		mg/Kg	1	4/20/2023 03:25 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BED0011-42
Lab Order:	N056032		
Project:	BED0011.01	**Collection Date:**	4/4/2023 2:34:00 PM
Lab ID:	N056032-009	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230420B	QC Batch: 99270			PrepDate:	4/19/2023	Analyst: **DJ**
Arsenic	6.1	0.50		mg/Kg	1	4/20/2023 03:30 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: American Environmental Testing Laboratory, Inc.
Work Order: N056032
Project: BED0011.01

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_S_PPM

Sample ID **MB-99270**	SampType: **MBLK**	TestCode: **6020_S_PPM**	Units: **mg/Kg**	Prep Date: **4/19/2023**	RunNo: **171632**
Client ID: **PBS**	Batch ID: **99270**	TestNo: **EPA 6020**	**EPA 3050B**	Analysis Date: **4/20/2023**	SeqNo: **5166757**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.50									

Sample ID **LCS-99270**	SampType: **LCS**	TestCode: **6020_S_PPM**	Units: **mg/Kg**	Prep Date: **4/19/2023**	RunNo: **171632**
Client ID: **LCSS**	Batch ID: **99270**	TestNo: **EPA 6020**	**EPA 3050B**	Analysis Date: **4/20/2023**	SeqNo: **5166758**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	5.125	0.50	5.000	0	102	85	115				

Sample ID **N056032-001A-MSD**	SampType: **MSD**	TestCode: **6020_S_PPM**	Units: **mg/Kg**	Prep Date: **4/19/2023**	RunNo: **171632**
Client ID: **ZZZZZZ**	Batch ID: **99270**	TestNo: **EPA 6020**	**EPA 3050B**	Analysis Date: **4/20/2023**	SeqNo: **5166763**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	41.435	0.50	4.998	37.37	81.4	75	125	41.03	0.979	20	

Sample ID **N056032-001A-MS**	SampType: **MS**	TestCode: **6020_S_PPM**	Units: **mg/Kg**	Prep Date: **4/19/2023**	RunNo: **171632**
Client ID: **ZZZZZZ**	Batch ID: **99270**	TestNo: **EPA 6020**	**EPA 3050B**	Analysis Date: **4/20/2023**	SeqNo: **5166785**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	41.032	0.50	4.995	37.37	73.4	75	125				S

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: American Environmental Testing Laboratory, Inc.
Work Order: N056032
Project: BED0011.01

ANALYTICAL QC SUMMARY REPORT

TestCode: CA_7199_S

Sample ID **LCS-99253**	SampType: **LCS**	TestCode: **CA_7199_S**	Units: **mg/Kg**		Prep Date: **4/18/2023**			RunNo: **171581**				
Client ID: **LCSS**	Batch ID: **99253**	TestNo: **EPA 7199**	**EPA 3060A**		Analysis Date: **4/19/2023**			SeqNo: **5163922**				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Hexavalent Chromium	3.703	0.20	4.000	0	92.6	80	120					

Sample ID **MB-99253**	SampType: **MBLK**	TestCode: **CA_7199_S**	Units: **mg/Kg**		Prep Date: **4/18/2023**			RunNo: **171581**				
Client ID: **PBS**	Batch ID: **99253**	TestNo: **EPA 7199**	**EPA 3060A**		Analysis Date: **4/19/2023**			SeqNo: **5163923**				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Hexavalent Chromium	ND	0.20										

Sample ID **N055984-001A-REP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**		Prep Date: **4/18/2023**			RunNo: **171581**				
Client ID: **ZZZZZZ**	Batch ID: **99253**	TestNo: **EPA 7199**	**EPA 3060A**		Analysis Date: **4/19/2023**			SeqNo: **5163925**				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Hexavalent Chromium	ND	0.20						0	0	20		

Sample ID **N055984-001A-DUP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**		Prep Date: **4/18/2023**			RunNo: **171581**				
Client ID: **ZZZZZZ**	Batch ID: **99253**	TestNo: **EPA 7199**	**EPA 3060A**		Analysis Date: **4/19/2023**			SeqNo: **5163926**				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Hexavalent Chromium	ND	0.20						0	0	20		

Sample ID **N055984-001A-MS**	SampType: **MS**	TestCode: **CA_7199_S**	Units: **mg/Kg**		Prep Date: **4/18/2023**			RunNo: **171581**				
Client ID: **ZZZZZZ**	Batch ID: **99253**	TestNo: **EPA 7199**	**EPA 3060A**		Analysis Date: **4/19/2023**			SeqNo: **5163928**				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Hexavalent Chromium	3.766	0.20	4.000	0	94.2	75	125					

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits

Calculations are based on raw values

- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: American Environmental Testing Laboratory, Inc.
Work Order: N056032
Project: BED0011.01

ANALYTICAL QC SUMMARY REPORT

TestCode: CA_7199_S

Sample ID **N055984-001A-MSD**	SampType: **MSD**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/18/2023**	RunNo: **171581**
Client ID: **ZZZZZZ**	Batch ID: **99253**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/19/2023**	SeqNo: **5163929**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	3.817	0.20	4.000	0	95.4	75	125	3.766	1.35	20	

Sample ID **N055984-002A-REP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/18/2023**	RunNo: **171581**
Client ID: **ZZZZZZ**	Batch ID: **99253**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/19/2023**	SeqNo: **5163934**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20						0	0	20	

Sample ID **N055984-003A-REP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/18/2023**	RunNo: **171581**
Client ID: **ZZZZZZ**	Batch ID: **99253**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/19/2023**	SeqNo: **5163936**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20						0.08656	0	20	

Sample ID **N055984-004A-REP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/18/2023**	RunNo: **171581**
Client ID: **ZZZZZZ**	Batch ID: **99253**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/19/2023**	SeqNo: **5163938**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20						0.5758	0	20	

Sample ID **N056032-006A-REP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/18/2023**	RunNo: **171581**
Client ID: **ZZZZZZ**	Batch ID: **99253**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/19/2023**	SeqNo: **5163940**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20						0.07712	0	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: American Environmental Testing Laboratory, Inc.
Work Order: N056032
Project: BED0011.01

ANALYTICAL QC SUMMARY REPORT

TestCode: CA_7199_S

Sample ID	N055984-001A-MS-I	SampType:	MS	TestCode:	CA_7199_S	Units:	mg/Kg	Prep Date:	4/18/2023	RunNo:	171581
Client ID:	ZZZZZZ	Batch ID:	99253	TestNo:	EPA 7199	EPA 3060A		Analysis Date:	4/19/2023	SeqNo:	5163943

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	654.286	10	650.0	0	101	75	125				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

N056032.

AMERICAN ENVIRONMENTAL TESTING LABORATORY, LLC
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SUBCONTRACT CHAIN of CUSTODY

Sending Laboratory:

AETL
AETL, LLC. 2840 N. Naomi Street
Burbank, CA 91504
Phone: 818-845-8200

Project Manager: Hailley Coleman
Email: hcoleman@aetlab.com

Subcontracted Laboratory:

ASSET Laboratories
11110 Artesia Blvd.
Cerritos, CA 90703
Phone: (702)307-2659
Fax: (562)219-7435

Work Order: BED0011.01 PO #SUB-35303

Analysis	Due	Expires	Comments
Sample ID: BED0011-02 ***Soil*** ***Sampled: 04/04/2023 10:53***			5-DAY TAT N056032-001
6020-As (Arsenic, total by ICP/MS)	04/11/2023	10/01/2023 10:53	
Containers Supplied:			
Sample ID: BED0011-05 ***Soil*** ***Sampled: 04/04/2023 08:23***			-002
6020-As (Arsenic, total by ICP/MS)	04/11/2023	10/01/2023 08:23	
Containers Supplied:			
Sample ID: BED0011-14 ***Soil*** ***Sampled: 04/04/2023 14:55***			-003
6020-As (Arsenic, total by ICP/MS)	04/11/2023	10/01/2023 14:55	
Containers Supplied:			
Sample ID: BED0011-18 ***Soil*** ***Sampled: 04/04/2023 09:35***			-004
6020-As (Arsenic, total by ICP/MS)	04/11/2023	10/01/2023 09:35	
Containers Supplied:			
Sample ID: BED0011-21 ***Soil*** ***Sampled: 04/04/2023 10:20***			-005
6020-As (Arsenic, total by ICP/MS)	04/11/2023	10/01/2023 10:20	

LV 4.8°C IR#3
COLD GEL

Approved by: HAILLEY COLEMAN 4/18/23
AETL Project Manager — Date

Released By AETL Sample Control — 4/18/23 1217 — Date

Received By Courier — 4/18/23 1217 — Date

Released By Courier — 4/18/23 1800 — Date

Received By Subcontract Laboratory — 4/19/23 9:37 am — Date

CA: 5.8°C IR#1

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SUBCONTRACT CHAIN of CUSTODY
(Continued)

Work Order: BED0011 (Continued)

Analysis	Due	Expires	Comments
Containers Supplied:			
~~**Sample ID: BED0011-29**~~ ***Soil*** ***Sampled: 04/04/2023 08:49***			
7199 (Chromium Hexavalent by Ion Chromatography)	04/11/2023	05/02/2023 08:49	
Containers Supplied:			
~~**Sample ID: BED0011-31**~~ ***Soil*** ***Sampled: 04/04/2023 12:58***			
7199 (Chromium Hexavalent by Ion Chromatography)	04/11/2023	05/02/2023 12:58	
Containers Supplied:			
Sample ID: BED0011-32 ***Soil*** ***Sampled: 04/04/2023 13:04***			N056032-006
7199 (Chromium Hexavalent by Ion Chromatography)	04/11/2023	05/02/2023 13:04	
Containers Supplied:			
~~**Sample ID: BED0011-34**~~ ***Soil*** ***Sampled: 04/04/2023 13:52***			
7199 (Chromium Hexavalent by Ion Chromatography)	04/11/2023	05/02/2023 13:52	
Containers Supplied:			
~~**Sample ID: BED0011-35**~~ ***Soil*** ***Sampled: 04/04/2023 13:57***			
7199 (Chromium Hexavalent by Ion Chromatography)	04/11/2023	05/02/2023 13:57	
Containers Supplied:			

IV 4.8°C IR#3
GCLS6285

Approved by:
AETL Project Manager — Date

Released By AETL Sample Control — 4/18/23 1217 Date
Received By Courier — 4/18/23 1217 Date

Released By Courier — 4/18/23 1800 Date
Received By Subcontract Laboratory — 4/19/23 9:37 am Date

CA: 5.8°C IR#1

AMERICAN ENVIRONMENTAL TESTING LABORATORY, LLC
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SUBCONTRACT CHAIN of CUSTODY
(Continued)

Work Order: BED0011 (Continued)

Analysis	Due	Expires	Comments
Sample ID: BED0011-36 ***Soil*** ***Sampled: 04/04/2023 13:59***			N056032-007
6020-As (Arsenic, total by ICP/MS)	04/11/2023	10/01/2023 13:59	
Containers Supplied:			
~~**Sample ID: BED0011-38** ***Soil*** ***Sampled: 04/04/2023 14:17***~~			
7199 (Chromium Hexavalent by Ion Chromatography)	04/11/2023	05/02/2023 14:17	
Containers Supplied:			
Sample ID: BED0011-39 ***Soil*** ***Sampled: 04/04/2023 14:20***			-008
6020-As (Arsenic, total by ICP/MS)	04/11/2023	10/01/2023 14:20	
Containers Supplied:			
~~**Sample ID: BED0011-41** ***Soil*** ***Sampled: 04/04/2023 14:32***~~			
7199 (Chromium Hexavalent by Ion Chromatography)	04/11/2023	05/02/2023 14:32	
Containers Supplied:			
Sample ID: BED0011-42 ***Soil*** ***Sampled: 04/04/2023 14:34***			-009
6020-As (Arsenic, total by ICP/MS)	04/11/2023	10/01/2023 14:34	
Containers Supplied:			

LV 4.8°C IR#3
GLG6285

Approved by:
AETL Project Manager — Date

Released By AETL Sample Control — 4/18/23 1217 Date
Received By Courier — 4/18/23 1217 Date

Released By Courier — 4/18/23 1800 Date
Received By Subcontract Laboratory — 4/19/23 9:37 Date

CA: 5.8°C IR#1

ASSET Laboratories

Please review the checklist below. Any NO signifies non-compliance. Any non-compliance will be noted and must be understood as having an impact on the quality of the data. All tests will be performed as requested regardless of any compliance issues.

If you have any questions or further instruction, please contact our Project Coordinator at (702) 307-2659.

Cooler Received/Opened On:	4/18/2023	Workorder:	N056032
Rep sample Temp (Deg C):	5.8	IR Gun ID:	1
Temp Blank:	☐ Yes ☑ No		
Carrier name:	Walk-In		
Last 4 digits of Tracking No.:	NA	Packing Material Used:	None
Cooling process:	☑ Ice ☐ Ice Pack ☐ Dry Ice ☐ Other ☐ None		

Sample Receipt Checklist

1. Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
2. Custody seals intact, signed, dated on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
3. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
4. Chain of custody present?	Yes ☑	No ☐	
5. Sampler's name present in COC?	Yes ☐	No ☑	
6. Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
7. Chain of custody agrees with sample labels?	Yes ☑	No ☐	
8. Samples in proper container/bottle?	Yes ☑	No ☐	
9. Sample containers intact?	Yes ☑	No ☐	
10. Sufficient sample volume for indicated test?	Yes ☑	No ☐	
11. All samples received within holding time?	Yes ☑	No ☐	
12. Temperature of rep sample or Temp Blank within acceptable limit?	Yes ☑	No ☐	NA ☐
13. Water - VOA vials have zero headspace?	Yes ☐	No ☐	NA ☑
14. Water - pH acceptable upon receipt? Example: pH > 12 for (CN,S); pH<2 for Metals	Yes ☐	No ☐	NA ☑
15. Did the bottle labels indicate correct preservatives used?	Yes ☐	No ☐	NA ☑
16. Were there Non-Conformance issues at login?	Yes ☑	No ☐	NA ☐
Was Client notified?	Yes ☐	No ☐	NA ☑

Comments: Received at Las Vegas Lab on 4/19/2023 at 4.8°C, IR#3, via GLS#6285.

Checklist Completed By: MR 4/20/2023

Reviewed By:



ASSET Laboratories

WORK ORDER Summary

19-Apr-23

WorkOrder: N056032

Client ID: AETL01

Project: BED0011.01 **QC Level:** RTNE **Date Received:** 4/18/2023 12:17 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N056032-001A	BED0011-02	4/4/2023 10:53:00 AM	4/25/2023	Soil	EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			4/25/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N056032-002A	BED0011-05	4/4/2023 8:23:00 AM	4/25/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			4/25/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N056032-003A	BED0011-14	4/4/2023 2:55:00 PM	4/25/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			4/25/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N056032-004A	BED0011-18	4/4/2023 9:35:00 AM	4/25/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			4/25/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N056032-005A	BED0011-21	4/4/2023 10:20:00 AM	4/25/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			4/25/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N056032-006A	BED0011-32	4/4/2023 1:04:00 PM	4/25/2023		EPA 3060A	Prep for Hexavalent Chromium	☐	☐	☐	WS-CA
			4/25/2023		EPA 7199	Hexavalent Chromium by IC	☐	☐	☐	WS-CA
N056032-007A	BED0011-36	4/4/2023 1:59:00 PM	4/25/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			4/25/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N056032-008A	BED0011-39	4/4/2023 2:20:00 PM	4/25/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			4/25/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N056032-009A	BED0011-42	4/4/2023 2:34:00 PM	4/25/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			4/25/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N056032-010A	FOLDER	4/25/2023	4/25/2023		Folder	Folder	☐	☐	☐	LAB
			4/25/2023		Folder	Folder	☐	☐	☐	LAB

GLS.

800-322-5555
www.gls-us.com

Ship From
ASSET LABORATORIES
THAD MALIT
11110 ARTESIA BLVD. SUITE B
CERRITOS, CA 90703

Ship To
ASSET LABORATORIES
SAMPLE CONTROL-LV
3151 W. POST RD.,
LAS VEGAS, NV 89118

COD: $0.00
Weight: 0 lb(s)
Reference:

Delivery Instructions:
HOLD FOR PICKUP
Signature Type: STANDARD

Tracking #: 559226285

PDS

9:37 AM

LAS VEGAS

C89102A

84548915

LVS NV891-A 8

Print Date: 4/18/2023 5:23 PM

LABEL INSTRUCTIONS:

Do not copy or reprint this label for additional shipments - each package must have a unique barcode.
Step 1: Use the "Print Label" button on this page to print the shipping label on a laser or inkjet printer.
Step 2: Fold this page in half.
Step 3: Securely attach this label to your package and do not cover the barcode.

TERMS AND CONDITIONS:

By giving us your shipment to deliver, you agree to all of the General Logistics Systems US, Inc. (GLS) service terms & conditions including, but not limited to; limits of liability, declared value conditions, and claim procedures which are available on our website at www.gls-us.com.

4.8°C
ice # F

AMERICAN ENVIRONMENTAL TESTING LABORATORY, LLC
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A KYZER LABS COMPANY

May 09, 2023

AETL Job No: BED0011.03
Received Date: 04/04/2023
Project Number: [none]

Parsons
100 West Walnut Street
Pasadena, CA 91124
Telephone: (626) 440-6200

Attention: Justin King

Project Name: Canoga Park High School
Site: 6850 CA-27
Canoga Park, CA 91303

Enclosed please find the results of analyses for samples which were analyzed as specified on the attached chain of custody. If you have any questions concerning this report, please do not hesitate to call.

Checked By: Hailley Coleman
Hailley Coleman
Project Manager

Approved By: Joe Sevrean
Joe Sevrean
Laboratory Director

Table of Contents

Client Project Name: General Soil Testing Project Number: [none]
Work Order Number: BED0011

1 Cover Letter 1
2 Sample Condition on Receipt 3
3 Chain of Custody 4
4 Cooler Receipt Forms 7
5 Case Narrative 8
6 Samples Received 9
7 Positive Hits Summary 10
8 Analytical Results 11
9 Qualifiers and Definitions 12
10 Sub Contracted Analysis 14

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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	05/09/2023 12:19	

Sample Condition on Receipt

Cooler ID: Default Cooler **Temperature: 5.8 °C**

Are the COCs Correct	Y		
Labels Legible	Y	Containers In Good Condition	Y
COC/Labels Agree	Y	Samples Preserved Properly	Y
Sufficient Sample Volume	Y	Sufficient Holding Time for all Tests	Y
Sample Labels intact	Y	Received on Ice	Y

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

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CHAIN OF CUSTODY RECORD

108491

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut St. Pasadena, CA 91124
PHONE / FAX: (310) 809-5793
PROJECT NAME: Canoga Park Highschool
PROJECT #:
SITE NAME AND ADDRESS: 6850 CA-27, Canoga Park, CA 91303
PO #:

AETL JOB No. BED0011

ANALYSIS REQUESTED

	SAMPLE ID	LAB ID	DATE	E.D. TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	OCPs (8081A)	STLC-Pb	TCLP-Pb						TEST INSTRUCTIONS & COMMENTS
1	SB-1-D0.5	BED0011-01	1049	4/4/23	soil	1x9oz	NONE	X	X	X	X	X						
2	SB-1-D2.0	.02	4/4/2023	1053				X	X									Hold
3	SB-1-D3.0	.03		1057				X	X									Hold
4	SB-5-D0.5	.04		0818				X	X	X								
5	SB-5-D2.0	.05		0823					X									Hold
6	SB-5-D3.0	.06		0830					X									Hold
7	SB-8-D0.5	.07		0727				X	X	X								
8	SB-8-D2.0	.08		0730														Hold
9	SB-8-D3.0	.09		0735														Hold
10	SB-12-D0.5	.10		0750				X	X	X								
11	SB-12-D2.0	.11		0755														Hold
12	SB-12-D3.0	.12		0802				ED										Hold
13	SB-50-D0.5	.13		1452				X	X	X								
14	SB-50-D2.0	.14		1455					X									Hold
15	SB-50-D3.0	.15		1458					X									Hold

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y/ N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: E. Tolm	Signature:	Signature:
Printed Name: Edward Dabsys	Printed Name:	Printed Name:
Date: 4/4/2023 Time: 1600	Date: Time:	Date: Time:

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: 3.
Signature:	Signature:	Signature: Joe Sevreau
Printed Name:	Printed Name:	Printed Name: Joe Sevreau
Date: Time:	Date: Time:	Date: 4/4/2023 Time: 1600

TURN AROUND TIME

☑ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY
☑ PDF
☐ GEOTRACKER (GLOBAL ID) _____
☐ OTHER (PLEASE SPECIFY) _____

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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CHAIN OF CUSTODY RECORD

108490

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut St. Pasadena, CA 91124
PHONE: (310) 809-5793
FAX:
PROJECT NAME: Canoga Park High School
PROJECT #:
SITE NAME AND ADDRESS: 6850 CA-27, Canoga Park, CA 91303
PO#:

AETL JOB No. BE00011

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1	SB-3-D0.5	BE00011-16	4/4/2023	0910	Soil	1x 9oz+4 Vials	—
2	SB-3-D0.5-DUP	-17		0915			
3	SB-3-D2.0	-18		0935			
4	SB-3-D3.0	-19		0945			
5	SB-2-D0.5	-20		1005			
6	SB-2-D2.0	-21		1020			
7	SB-2-D3.0	-22		1030			
8	SB-37-D0.5	-23		1120			
9	SB-37-D2.0	-24		1130			
10	SB-37-D3.0	-25		1135			
11	SB-36-D0.5	-26		1152			
12	SB-36-D2.0	-27		1202			
13	SB-36-D3.0	-28	▼	1212	▼	▼	▼
14							
15							

ANALYSIS REQUESTED

	Lead (6010B)	Arsenic (6020)	OCPs (8081A)	VOCs (8260B)	TPH (8270C)	STLC-Pb	TCLP-Pb				TEST INSTRUCTIONS & COMMENTS
1	X	X	X	X	X	X	X				
2	X	X	X	X	X	X	X				Duplicate
3	X	X									Hold
4	X	X									Hold
5	X	X	X	X	X						
6		X									Hold
7		X									Hold
8	X	X	X	X	X						
9											Hold
10											Hold
11	X	X	X	X	X						
12											Hold
13											Hold
14											
15											

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y / N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

TURN AROUND TIME

☑ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY ☑ PDF ☐ GEOTRACKER (GLOBAL ID) _____ ☐ OTHER (PLEASE SPECIFY) _____

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: E. Dabszs	Signature:	Signature:
Printed Name: Edward Dabszs	Printed Name:	Printed Name:
Date: 4/4/2023 Time: 1600	Date: Time:	Date: Time:
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: 3.**
Signature:	Signature:	Signature: Joe Sevreau
Printed Name:	Printed Name:	Printed Name: Joe Sevreau
Date: Time:	Date: Time:	Date: 4/4/2023 Time: 1608

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CHAIN OF CUSTODY RECORD

108493

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut Street Pasadena, CA 91124
PHONE / FAX: (310) 809-5793
PROJECT NAME: Canoga Park High school
PROJECT #:
SITE NAME AND ADDRESS: 6850 CA-27, Canoga Park, CA 91303
PO #: 303

AETL JOB No. BE00011

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1	SB-4-D0.5	BE00011-29	4/4/2023	0849	Soil	1x4oz + 2x2oz	none
2	SB-4-D2.0	-30		0855			
3	SB-22-D0.5	-31		1258			
4	SB-22-D2.0	-32		1304		1x4oz	
5	SB-22-D3.0	-33		1307		1x4oz	
6	SB-53-D0.5	-34		1352		1x4oz + 2x2oz	
7	SB-53-D0.5-DUP	-35		1357		1x4oz + 2x2oz	
8	SB-53-D2.0	-36		1359		1x4oz	
9	SB-53-D3.0	-37		1401			
10	SB-52-D0.5	-38		1417			
11	SB-52-D2.0	-39		1420			
12	SB-52-D3.0	-40		1424			
13	SB-51-D0.5	-41		1432			
14	SB-51-D2.0	-42		1434			
15	SB-51-D3.0	-43		1437			

ANALYSIS REQUESTED

	Lead (6010B)	Arsenic (6020)	OCPs (8081A)	PCBs (8270C)	Asbestos (PLM)	PAHs (8270C)	Cr VI (7199)	Cd+Ni (6010B)	Mercury (7470A)	TEST INSTRUCTIONS & COMMENTS
1	X	X	X	X	X	X	X	X	X	
2										Hold
3	X	X	X	X	X	X	X	X	X	
4				X			X			Hold
5				X			X			Hold
6	X	X	X	X	X	X	X	X	X	
7	X	X	X	X	X	X	X	X	X	Duplicate
8		X								Hold
9		X								Hold
10	X	X	X	X	X	X	X	X	X	
11		X								Hold
12		X								Hold
13	X	X	X	X	X	X	X	X	X	
14		X								Hold
15		X								Hold

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y / N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

TURN AROUND TIME

☑ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY
☑ PDF
☐ GEOTRACKER (GLOBAL ID) _____
☐ OTHER (PLEASE SPECIFY) _____

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:	Signature:	Signature:
Printed Name: Edward Dabas	Printed Name:	Printed Name:
Date: 4/4/2023 Time: 1600	Date: Time:	Date: Time:
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: 3.**
Signature:	Signature:	Signature:
Printed Name:	Printed Name:	Printed Name:
Date: Time:	Date: Time:	Date: 4/4/2023 Time: 1600

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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COOLER RECEIPT FORM

Client Name: Parsons

Project Name: Canoga Park High School Project No.:

AETL Job Number: BED0011

Date Received: 04-04-23 Received by: Joe Sevrean

Carrier: ☑ AETL Courier ☐ Client ☐ GSL ☐ FedEx ☐ UPS
☐Others:

Samples were received in: ☑ Cooler (__2_____) ☐ Other (Specify)**:**

Sample Container Temperature: __5.8__ °C IR Gun S/N: 51941911MV

Type of sample containers: ☐ VOA, ☐ Glass bottles, ☑Wide mouth jars, ☐HDPE bottles, ☐ Metal sleeves, ☐ Acetate sleeves, ☐ 5035 Kit: ☐ AETL or ☐ Client, ☐ Tedlar Bags, Summa Canister: ☐ 6L, ☐ 3L, ☐ 1L, Others (Specify): _____

How are samples preserved: ☐ None, ☑ Ice, ☐ Blue Ice, ☐ Dry Ice
☑ None, ☐ HNO_3, ☐ NaOH, ☐ ZnOAc, ☐ HCl, ☐ $Na_2S_2O_3$, ☐ MeOH, ☐ $NaHSO_4$
☐ Other (Specify):

	Yes	No	N/A	Note or Comment
1. Are the COCs Correct?	✔			
2. Are Sample labels legible & indelible ink?	✔			
3. Do samples match the COC?	✔			
4. Are the required analyses clear?	✔			
5. Is there enough samples for required analysis?	✔			
6. Does cooler or samples have custody seal(s)?			✔	
7. Are sample containers in good condition?	✔			
8. Are samples preserved?	✔			
9. Are samples preserved properly for the intended analysis?	✔			
10. Are the VOAs free of headspace? See footnote.			✔	
11. Are the jars free of headspace?			✔	

* = see note below. N/A = Not Applicable

PLEASE NOTE ALL SAMPLES WILL BE DISPOSED OF 30 DAYS AFTER RECEIVING DATE. IF AETL IS INFORMED OTHERWISE, THERE WILL BE A STORAGE CHARGE PER SAMPLE PER MONTH FOR ANY SAMPLE HELD BEYOND 30 DAYS.

◯ Example maximum headspace bubble size; acceptance criteria not to exceed 5-6 mm in diameter.

For headspace bubbles exceeding 6 mm in diameter, sample receiving will tag the VOA and notify the Project Manager. The Project Manager will contact client for Analyze or Resample instructions.

AMERICAN ENVIRONMENTAL TESTING LABORATORY, LLC
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Telephone (888) 288-AETL • (818) 845-8200 • www.aetlab.com
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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	05/09/2023 12:19

Case Narrative

The following "Sample Received" Section summarizes the samples received and associated analyses requested as specified on the enclosed chain of custody.

Results as reported by the laboratory apply only to 1) the items tested, 2) as the samples are received, and 3) the accuracy of information provided. Information supplied by the customer that may affect validity of results and may be contained in this report include Project Name/Number, Site Location, Sample Locations, Sampling Dates/Times, Sample ID, Sample Preservation, Sample Matrix, Sample Properties, Field Blanks, Field Duplicates, Field Spikes, and Site Historical Data.

Accreditation applies only to the test methods listed on each scope of accreditation held by the laboratory; certifications held by the laboratory may not apply to results supplied in this report.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

Qualifiers are noted in the report.

The samples were subcontracted to Orange Coast Analytical, Inc. for EPA 6020. Please see attached report for results.

The samples were subcontracted to Asset Laboratories for EPA 7199. Please see attached report for results.

The samples were subcontracted to AIH Laboratories for EPA 600R-93/116. Please see attached report for results.

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

AMERICAN ENVIRONMENTAL TESTING LABORATORY, LLC
2840 North Naomi Street, Burbank, CA 91504 • ELAP# 1541 • LACSD# 10181
Telephone (888) 288-AETL • (818) 845-8200 • www.aetlab.com
A KYZER LABS COMPANY

Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	05/09/2023 12:19	

Samples Received

AETL received the following samples on 04/04/2023 with the following specifications

Client ID	Sample Date
SB-1-D3.0	04/4/2023 10:57

Lab ID	Matrix	Quantity of Containers
BED0011-03	Soil	3

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Client ID	Sample Date
SB-3-D3.0	04/4/2023 9:45

Lab ID	Matrix	Quantity of Containers
BED0011-19	Soil	7

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Client ID	Sample Date
SB-2-D3.0	04/4/2023 10:30

Lab ID	Matrix	Quantity of Containers
BED0011-22	Soil	7

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Total Number of Samples received: 3

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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	05/09/2023 12:19

Positive Hits Summary

Lab ID	Client ID					Sampled
Method	Analyte	Result	Qualifier	Unit		Analyzed

Please see subcontract report.

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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	05/09/2023 12:19

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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	05/09/2023 12:19

Qualifiers and Definitions

Item	Definitions
% wt	Percent Weight
%REC	Percent Recovery
°F	Degrees Fahrenheit
AETL	American Environmental Testing Laboratory, LLC
C	Carbon
CARB	California Air Resources Board
COC	Chain of Custody
Cresols	3-methylphenol/4-methylphenol coelute and cannot be chromatographically separated. Due to this coeluting isomer pair phenomenon, the laboratory uses a single cresol (4-methylphenol) as calibration standard for 3-methylphenol/4-methylphenol.
CRM	Certified Reference Material
DPD	Department of Planning and Development
DRO	Diesel Range Organics
Dup	Duplicate
ELAP	Environmental Laboratory Accreditation Program
EPA	Environmental Protection Agency
GC/FID	Gas Chromatography Flame Ionization Detection
GRO	Gasoline Range Organics
HC	Hydrocarbon
HEM	Hexane Extractable Material
HMU	Hazardous Material Unit
ICP/MS	Inductively Coupled Plasma Mass Spectrometry
LACSD	Los Angeles County Sanitation Districts
LCS	Laboratory Control Sample - A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes.
LCSD	Laboratory Control Sample Duplicate - A replicate of Laboratory Control Sample.
LOQ	Limit of Quantitation
MDL	Method Detection Limit - The minimum measured concentration of a substance that can be reported with 99% confidence. MDL is statistically derived number which is specific for each instrument, each method and each compound.
mg/kg	Miligrams per Kilogram
mg/L	Miligrams per Liter
ml/L/hr	Milliliter per Liter per Hour
MRO	Motor oil Range Organics
MS	Matrix Spike - A sample prepared, taken through all sample preparation and analytical steps of the procedure and analyzed as an independent test results.
MSD	Matrix Spike Duplicate - A replicate of Matrix Spike Sample.
N	No
ND	Analyte is not detected below Method Detection Limit.
ng/m3	Nanograms per cubic meter

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Parsons	AETL Job Number:	BED0011	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	05/09/2023 12:19

NIOSH	National Institute for Occupational Safety and Health
nL/L	Nanoliters per Liter
NTU	Nephelometric Turbidity Units
Ohm-cm	Ohms per centimeter
ORO	Oil Range Organics
OSHA	Occupational Safety and Health Administration
PCB	Polychlorinated Biphenyl
PSU	Practical Salinity Unit
RL	Reporting Limit - The lowest concentration at which an analyte can be detected in a sample and its concentration can be reported with a specified degree of confidence, accuracy and precision. For usage at AETL, RL is equivalant to LOQ.
RPD	Relative Percent Difference
SIM	Selective Ion Monitoring
SM	Standard Method
SPLP	Synthetic Precipitation Leaching Procedure
STLC	Soluble Threshold Limit Concentration
TCLP	Toxicity Characteristic Leaching Procedure
TPH	Total Petroleum Hydrocarbons
TTLC	Total Threshold Limit Concentrations
ug/kg	Micrograms per Kilogram
ug/L	Micrograms per Liter
ug/m3	Micrograms per cubic meter
WET	Waste Extraction Test
Y	Yes
ZHE	Zero Headspace Extraction

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4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (480) 736-0960 Fax (480) 736-0970

LABORATORY REPORT FORM

ORANGE COAST ANALYTICAL, INC.

3002 Dow Suite 532 Tustin, CA 92780

(714) 832-0064

Laboratory Certification (ELAP) No.:2576
Expiration Date: 2025
Los Angeles County Sanitation District Lab ID# 10206

Laboratory Director's Name:
Mark Noorani

Client:	American Environmental Testing Laboratory
Laboratory Reference:	AETL 27871
Project Name:	
Project Number:	BED0011.04
Date Received:	5/1/2023
Date Reported:	5/9/2023
Chain of Custody Received:	☑
Analytical Method:	6020,

Mark Noorani, Laboratory Director

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Rev1.0

Ms. Hailley Coleman
American Environmental Testing Laboratory
2840 Naomi St
Burbank, CA, 91504

Lab Reference #: AETL 27871
Project Name:
Project #: BED0011.04

Case Narrative

Sample Receipt:

All samples on the Chain of Custody were received by OCA at 2ºC, on ice.

Holding Times:

All samples were analyzed within required holding times unless otherwise noted in the data qualifier section of the report.

Analytical Methods:

Sample analysis was performed following the analytical methods listed on the cover page.

Data Qualifiers:

Within this report, data qualifiers may have been assigned to clarify deviations in common laboratory procedures or any divergence from laboratory QA/QC criteria. If a data qualifier has been used, it will appear in the back of the report along with its description. All method QA/QC criteria have been met unless otherwise noted in the data qualifier section.

Definition of Terms:

The definitions of common terms and acronyms used in the report have been placed at the back of the report to assist data users.

Comments:

None

Ms. Hailley Coleman
American Environmental Testing Laboratory
2840 Naomi St
Burbank, CA, 91504

Lab Reference #: AETL 27871
Project Name:
Project #: BED0011.04

Client Sample Summary

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0011-03	27871-001	5/1/2023	4/4/2023	Soil
BED0011-19	27871-002	5/1/2023	4/4/2023	Soil
BED0011-22	27871-003	5/1/2023	4/4/2023	Soil

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Ms. Hailley Coleman
American Environmental Testing Laboratory
2840 Naomi St
Burbank, CA, 91504

Lab Reference #: AETL 27871
Project Name:
Project #: BED0011.04

Metals

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0011-03	27871-001	5/1/2023 13:25	4/4/2023 10:57	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	4.8	mg/kg	05/01/23 15:35	05/03/23 11:31	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0011-19	27871-002	5/1/2023 13:25	4/4/2023 9:45	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	9.8	mg/kg	05/01/23 15:35	05/03/23 11:34	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0011-22	27871-003	5/1/2023 13:25	4/4/2023 10:30	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	5.0	mg/kg	05/01/23 15:35	05/03/23 11:37	--	1

Method Blank						Soil	
MB ID	ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
MBHV0501231	Arsenic	6020	<1.0	mg/kg	05/01/23 15:35	05/03/23 10:57	--	1

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QA/QC Report
for
Metals

Reference #: AETL 27871 Reporting units: ppm

Matrix Spike (MS) / Matrix Spike Duplicate (MSD) **6020**

Laboratory Sample #: AZ13973-003 **Date of Extraction:** 05/01/23 15:35

Analyte	MS Date of Analysis	MSD Date of Analysis	R1	SPC CONC	MS	MSD	% MS	% MSD	RPD	ACP %MS	ACP RPD	Qualifiers
Arsenic	05/03/23 11:09	05/03/23 11:12	5.80	20.0	25.2	26.7	97	105	6	75-125	20	--

Laboratory Control Spike (LCS) / Laboratory Control Spike Duplicate (LCSD) **6020**

Laboratory Sample #: HV0501231 **Date of Extraction:** 05/01/23 15:35

Analyte	LCS Date of Analysis	LCSD Date of Analysis		SPC CONC	LCS	LCSD	% LCS	% LCSD	RPD	ACP %LCS	ACP RPD	Qualifiers
Arsenic	05/03/23 11:00	05/03/23 11:03	--	20.0	20.6	20.1	103	101	2	80-120	20	--

Definition of terms:

R	Result of unspiked laboratory sample used for matrix spike determination.
SP CONC (or Spike Conc.)	Spike concentration added to sample or blank
MS	Matrix Spike sample result
MSD	Matrix Spike Duplicate sample result
%MS	Percent recovery of MS: {(MS-R1) / SP CONC} x100
%MSD	Percent recovery of MSD: {(MSD-R1) / SP CONC} x 100
RPD (for MS/MSD)	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2
LCS	Laboratory Control Sample result
LCSD	Laboratory Control Sample Duplicate result
%LCS	Percent recovery of LCS: {(LCS) / SP CONC} x100
%LCSD	Percent recovery of LCSD: {(LCSD) / SP CONC} x 100
RPD (for LCS/LCSD)	Relative Percent Difference: {(LCS-LCSD) / (LCS+LCSD)} x 100 x 2
ACP %LCS	Acceptable percent recovery range for Laboratory Control Samples.
ACP %MS	Acceptable percent recovery range for Matrix Spike samples
ACP RPD	Acceptable Relative Percent Difference
D	Detectable, result must be greater than zero
Qual	A checked box indicates a data qualifier was utilized and/or required for this analyte see attached explanation.
ND	Analyte Not Detected

Analysis Request and Chain of Custody Record

Lab Job No: 27871
Page 1 of 1

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Phoenix, AZ 85040
(480) 736-0960 Fax (480) 736-0970

REQUIRED TURN AROUND TIME: Standard: ✔
72 Hours: _____ 48 Hours: _____ 24 Hours: _____

CUSTOMER INFORMATION		PROJECT INFORMATION	
COMPANY:	American Environmental Testing L	PROJECT NAME:	
SEND REPORT TO:	Hailley Coleman	NUMBER:	BED0011.04
EMAIL:	hcoleman@aetlab.com	ADDRESS:	
ADDRESS:	2840 N. Naomi st.		
	Burbank, CA 91504	P.O. #:	SUB-35337
PHONE:	(818) 845-8200 FAX:	SAMPLED BY:	

SAMPLE ID	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER TYPE	ANALYSIS REQUEST / PRESERVATIVE: 6020-AS	REMARKS/PRECAUTIONS
BED0011-03	1	04/04/23	10:57	SS		✔	
BED0011-19	1	04/04/23	9:45	SS		✔	
BED0011-22	1	04/04/23	10:30	SS		✔	

Total No. of Samples: Method of Shipment: Preservative: 1 = Ice 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received For Lab By:	Date/Time:
[signature]	5-1-23 1325	[signature] OCA, LK	5-1-23 135

Sample Matrix:
GW - Groundwater
WW - Wastewater
SW - Stormwater
DW - Drinking Water
W - Water
SS - Soil/Solid
OT - Other

Sample Integrity: 2.0+0=2.0 °C
Intact: _____ On Ice: (Yes) No @ Da 3 °C

By signing above, client acknowledges responsibility for payment of all services requested on this chain of custody form and any additional services provided in support of this project. Payment is due within

Sample Receipt Report

Laboratory Reference: AETL 27871 Logged in by: HC

Received:	05/01/23 13:25	Company Name:	American Environmental Testing Labo
Method of Shipment:	Hand Delivered	Project Manager:	Ms. Hailley Coleman
Shipping Container:	Cooler	Project Name:	
# Shipping Containers:	1	Project #:	BED0011.04

Sample Quantity
3 Soil

Chain of Custody		Complete ☑	Incomplete ☐	None ☐
Samples On Ice		Yes, Wet ☑	Yes, Blue ☐	No ☐
Observed Temp. (°C):	2	Thermometer ID: IR#3	Adjusted Temp.:	2+(-0)=2
Shipping Intact		Yes ☑	N/A ☐	No ☐
Shipping Custody Seals Intact		Yes ☐	N/A ☑	No ☐
Samples Intact		Yes ☑		No ☐
Sample Custody Seals Intact		Yes ☐	N/A ☑	No ☐
Custody Seals Signed & Dated		Yes ☐	N/A ☑	No ☐
Proper Test Containers		Yes ☑		No ☐
Proper Test Preservations		Yes ☑		No ☐
Samples Within Hold Times		Yes ☑		No ☐
VOAs Have Zero Headspace		Yes ☐	N/A ☑	No ☐
Sample Labels		Complete ☑	Incomplete ☐	None ☐
Sample Information Matches COC		Yes ☑	N/A ☐	No ☐

Notes

Client Notified _____ By _____ On _____

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April 14, 2023

AETL Job No: BED0016
Received Date: 04/05/2023
Project Number: [none]

Parsons
100 West Walnut Street
Pasadena, CA 91124
Telephone: (626) 440-6200

Attention: Justin King

Project Name: Canoga Park High School
Site: 6850 CA-27
Canoga Park, CA 91303

Enclosed please find the results of analyses for samples which were analyzed as specified on the attached chain of custody. If you have any questions concerning this report, please do not hesitate to call.

Checked By: Lily Natanian
Project Manager

Approved By: Hailley Coleman
Project Manager

Table of Contents

Client Project Name: General Soil Testing Project Number: [none]
Work Order Number: BED0016

1 Cover Letter 1
2 Sample Condition on Receipt 3
3 Chain of Custody 4
4 Cooler Receipt Forms 8
5 Case Narrative 9
6 Samples Received 10
7 Positive Hits Summary 29
8 Analytical Results 36
9 Quality Control Results 85
10 Qualifiers and Definitions 103
11 Sub Contracted Analysis 105

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51

Sample Condition on Receipt

Cooler ID: Default Cooler **Temperature: 5.5 °C**

Are the COCs Correct	Y		
Labels Legible	Y	Containers In Good Condition	Y
COC/Labels Agree	Y	Samples Preserved Properly	Y
Sufficient Sample Volume	Y	Sufficient Holding Time for all Tests	Y
Sample Labels intact	Y	Received on Ice	Y

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CHAIN OF CUSTODY RECORD

108494

AETL JOB No. BED0016

Page 1 of 4

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut Street Pasadena, CA 91124
PHONE / FAX: (310) 809-5793
PROJECT NAME: Canoga Park High School
PROJECT #:
SITE NAME AND ADDRESS: 6850 CA-27, Canoga Park, CA 91303
PO #:

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	OCPs (8081A)	PCBs (8082A)	Asbestos (PLM)	PAHs (8270C)	Cr (VI) (7199)	Cd+Ni (6010B)	Mercury (7470A)	PCBs (8082)	TEST INSTRUCTIONS & COMMENTS
1	SB-33-D0.5	BED0016-01	4/5/2023	0656	Soil	1x4oz+2x2oz	NONE	X	X	X		X	X	X	X	X	X	
2	SB-33-D2.0	02		0659		1x4oz												Hold
3	SB-33-D3.0	03		0705														Hold
4	SB-34-D0.5	04		0733				X	X	X							X	
5	SB-34-D2.0	05		0737														Hold
6	SB-34-D3.0	06		0743														Hold
7	SB-35-D0.5	07		0753				X	X	X							X	
8	SB-35-D2.0	08		0758														Hold
9	SB-35-D3.0	09		0811														Hold
10	SB-39-D0.5	10		0852		1x4oz+2x2oz		X	X	X		X	X	X	X	X	X	
11	SB-39-D2.0	11		0856		1x4oz												Hold
12	SB-39-D3.0	12		0900		1x4oz												Hold
13	SB-6-D0.5	13		0925		1x4oz+2x2oz		X	X	X		X	X	X	X	X	X	
14	SB-6-D2.0	14		0929		1x4oz												Hold
15	SB-6-D3.0	15		0933		1x4oz												Hold

EDF

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y / N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

TURN AROUND TIME

☑ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY ☑ PDF ☐ GEOTRACKER (GLOBAL ID) _____ ☐ OTHER (PLEASE SPECIFY) _____

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: G. Salom	Signature:	Signature:
Printed Name: Edward Dabsys	Printed Name:	Printed Name:
Date: 4/5/2023 Time: 1630	Date: Time:	Date: Time:
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: 3.**
Signature:	Signature:	Signature:
Printed Name:	Printed Name:	Printed Name: LILY N.
Date: Time:	Date: Time:	Date: 04-05-23 Time: 16:30

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

American Environmental Testing Laboratory Inc.

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CHAIN OF CUSTODY RECORD

108479

AETL JOB No. BED0016

COMPANY: Parsons
PROJECT MANAGER: Justin Long
COMPANY ADDRESS: 100 W. Walnut Street Pasadena, CA 91124
PHONE: (310) 809-5793
FAX:
PROJECT NAME: Canoga Park High School
PROJECT #:
SITE NAME AND ADDRESS: 6850 CA-27, Canoga Park, CA 91303
PO #:

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	OCPs (8081A)	TEST INSTRUCTIONS & COMMENTS
1	SB-40-D0.5	BED0016-16	4/5/23	0717	Soil	1x 9oz	NONE	X	X	X	
2	SB-40-D2.0	17		0720							Hold
3	SB-40-D3.0	18		0723							Hold
4	SB-38-D0.5	19		0827				X	X	X	
5	SB-38-D0.5-DUP	20		0832				X	X	X	Duplicate
6	SB-38-D2.0	21		0834							Hold
7	SB-38-D3.0	22		0837							Hold
8	SB-55-D0.5	23		0948				X	X	X	
9	SB-55-D2.0	24		0952							Hold
10	SB-55-D3.0	25		0955							Hold
11	SB-7-D0.5	26		1002				X	X	X	
12	SB-7-D0.5-DUP	27		1007				X	X	X	Duplicate
13	SB-7-D2.0	28		1009							Hold
14	SB-7-D3.0	29		1012							Hold
15	SB-13-D0.5	30		1041				X	X	X	

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y/ N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

TURN AROUND TIME

☑ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY ☑ PDF ☐ GEOTRACKER (GLOBAL ID) _____ ☐ OTHER (PLEASE SPECIFY) _____

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: E. Salazar	Signature:	Signature:
Printed Name: Edward Dibsy	Printed Name:	Printed Name:
Date: 4/5/2023 Time: 1630	Date: Time:	Date: Time:
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: 3.**
Signature:	Signature:	Signature: Natanya
Printed Name:	Printed Name:	Printed Name: RILY N.
Date: Time:	Date: Time:	Date: 04-05-2023 Time: 16:30

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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CHAIN OF CUSTODY RECORD

108484

AETL JOB No. BED0016

COMPANY: Parsons
PROJECT MANAGER: Justin Icing
COMPANY ADDRESS: 100 W. Walnut Street, Pasadena, CA 91124
PHONE / FAX: (310) 809-5793
PROJECT NAME: Canoga Park High School
PROJECT #:
SITE NAME AND ADDRESS: 6850 CA-27, Canoga Park, CA
PO #: 91303

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	OCPs (8081A)	PCBs (8082)	Asbestos (PCM)	PAHs (8270C)	Cr(VI) (7199)	Cd+Ni (6010B)	Mercury (7470A)	TEST INSTRUCTIONS & COMMENTS
1	SB-11-D0.5	BED0016-31	4/5/2023	1100	Soil	1x9oz+2x2oz	NONE	X	X	X	X	X	X	X	X	X	
2	SB-11-D2.0	32		1106		1x9oz											Hold
3	SB-11-D3.0	33		1109		1x9oz											Hold
4	SB-42-D0.5	34		1300		1x9oz+2x2oz		X	X	X	X	X	X	X	X	X	
5	SB-42-D2.0	35		1305		1x9oz											Hold
6	SB-42-D3.0	36		1310		1x9oz											Hold
7	SB-45-D0.5	37		1354		1x9oz+2x2oz		X	X	X	X	X	X	X	X	X	
8	SB-45-D2.0	38		1358		1x9oz											Hold
9	SB-45-D3.0	39		1402		1x9oz											Hold
10	SB-47-D0.5	40		1437		1x9oz+2x2oz		X	X	X	X	X	X	X	X	X	
11	SB-47-D2.0	41		1439		1x9oz											Hold
12	SB-47-D3.0	42		1443		1x9oz											Hold
13	SB-44-D0.5	43		1412		1x9oz		X	X	X							
14	SB-44-D2.0	44		1416		1x9oz		X	X	X	ED.						Hold
15	SB-44-D3.0	45		1420		1x9oz		X	X	X	ED.						Hold

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y / N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

TURN AROUND TIME

☑ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY ☑ PDF ☐ GEOTRACKER (GLOBAL ID) ☐ OTHER (PLEASE SPECIFY)

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: E. Johns	Signature:	Signature:
Printed Name: Edward Dubois	Printed Name:	Printed Name:
Date: 4/5/2023 Time: 1630	Date: Time:	Date: Time:
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: 3.**
Signature:	Signature:	Signature:
Printed Name:	Printed Name:	Printed Name: ALEX N.
Date: Time:	Date: Time:	Date: 04-05-2023 Time: 16:30

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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CHAIN OF CUSTODY RECORD

108481

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut Street Pasadena, CA 91124
PHONE / FAX: (310) 809-5793
PROJECT NAME: Canoga Park Highschool
PROJECT #:
SITE NAME AND ADDRESS: 6850 CA-27, Canoga Park, CA 91303
PO #:
AETL JOB No.: BE-D0016

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	OCPs (8081A)	TEST INSTRUCTIONS & COMMENTS
1	SB-13-D2.0	BE-D0016-46	04/5/2023	1044	Soil	1x9oz	NONE				
2	SB-13-D3.0	47		1047							Hold
3	SB-14-D0.5	48		1133				X	X	X	Hold
4	SB-14-D2.0	49		1137							
5	SB-14-D3.0	50		1141							Hold
6	SB-41-D0.5	51		1237				X	X	X	Hold
7	SB-41-D2.0	52		1243							
8	SB-41-D3.0	53		1248							Hold
9	SB-43-D0.5	54		1321				X	X	X	Hold
10	SB-43-D2.0	55		1324							
11	SB-43-D3.0	56		1327							Hold
12	SB-46-D0.5	57		1337				X	X	X	Hold
13	SB-46-D2.0	58		1340							
14	SB-46-D3.0	59		1344							Hold
15											Hold

END

ANALYSIS REQUESTED

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y/ N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

TURN AROUND TIME

☑ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY ☑ PDF ☐ GEOTRACKER (GLOBAL ID) _____ ☐ OTHER (PLEASE SPECIFY) _____

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: E. Davis	Signature:	Signature:
Printed Name: Edward Davis	Printed Name:	Printed Name:
Date: 4/5/2023 Time: 1630	Date: Time:	Date: Time:
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: 3.**
Signature:	Signature:	Signature:
Printed Name:	Printed Name:	Printed Name: LILY N.
Date: Time:	Date: Time:	Date: 04-05-2023 Time: 16:30

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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COOLER RECEIPT FORM

Client Name: Parsons

Project Name: Canoga Park High School Project No.:

AETL Job Number: BED0016

Date Received: 04-05-23 Received by: Lily N.

Carrier: ☑ AETL Courier ☐ Client ☐ GSL ☐ FedEx ☐ UPS
☐Others:

Samples were received in: ☑ Cooler (__2_____) ☐ Other (Specify):

Sample Container Temperature: __5.5__ °C IR Gun S/N: 51941911MV

Type of sample containers: ☐ VOA, ☐ Glass bottles, ☑Wide mouth jars, ☐HDPE bottles, ☐ Metal sleeves, ☐ Acetate sleeves, ☐ 5035 Kit: ☐ AETL or ☐ Client, ☐ Tedlar Bags, Summa Canister: ☐ 6L, ☐ 3L, ☐ 1L, Others (Specify): _____

How are samples preserved: ☐ None, ☑ Ice, ☐ Blue Ice, ☐ Dry Ice
☑ None, ☐ HNO_3, ☐ NaOH, ☐ ZnOAc, ☐ HCl, ☐ $Na_2S_2O_3$, ☐ MeOH, ☐ $NaHSO_4$
☐ Other (Specify):

	Yes	No	N/A	Note or Comment
1. Are the COCs Correct?	✔			
2. Are Sample labels legible & indelible ink?	✔			
3. Do samples match the COC?	✔			
4. Are the required analyses clear?	✔			
5. Is there enough samples for required analysis?	✔			
6. Does cooler or samples have custody seal(s)?			✔	
7. Are sample containers in good condition?	✔			
8. Are samples preserved?	✔			
9. Are samples preserved properly for the intended analysis?	✔			
10. Are the VOAs free of headspace? See footnote.			✔	
11. Are the jars free of headspace?			✔	

* = see note below. N/A = Not Applicable

PLEASE NOTE ALL SAMPLES WILL BE DISPOSED OF 30 DAYS AFTER RECEIVING DATE. IF AETL IS INFORMED OTHERWISE, THERE WILL BE A STORAGE CHARGE PER SAMPLE PER MONTH FOR ANY SAMPLE HELD BEYOND 30 DAYS.

◯ Example maximum headspace bubble size; acceptance criteria not to exceed 5-6 mm in diameter.

For headspace bubbles exceeding 6 mm in diameter, sample receiving will tag the VOA and notify the Project Manager. The Project Manager will contact client for Analyze or Resample instructions.

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51

Case Narrative

The following "Sample Received" Section summarizes the samples received and associated analyses requested as specified on the enclosed chain of custody.

Results as reported by the laboratory apply only to 1) the items tested, 2) as the samples are received, and 3) the accuracy of information provided. Information supplied by the customer that may affect validity of results and may be contained in this report include Project Name/Number, Site Location, Sample Locations, Sampling Dates/Times, Sample ID, Sample Preservation, Sample Matrix, Sample Properties, Field Blanks, Field Duplicates, Field Spikes, and Site Historical Data.

Accreditation applies only to the test methods listed on each scope of accreditation held by the laboratory; certifications held by the laboratory may not apply to results supplied in this report.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

Qualifiers are noted in the report.

The samples were subcontracted to AIH Laboratory for EPA-600R-93/116. Please see attached report for results.

The samples were subcontracted to Orange Coast Analytical, Inc. for EPA 6020-As. Please see attached report for results.

The samples were subcontracted to Asset Laboratories for EPA 7199. Please see attached report for results.

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51	

Samples Received

AETL received the following samples on 04/05/2023 with the following specifications

Client ID SB-33-D0.5 — **Sample Date** 04/5/2023 6:56

Lab ID BED0016-01 — **Matrix** Soil — **Quantity of Containers** 4

Method	Analyte	Units	TAT
EPA 600R-93/116	Asbestos by Polarized Light Microscopy Analysis	Percent	5
EPA 6010B	Lead, total by ICP	mg/kg	5
EPA 6010B	Cadmium, total by ICP	mg/kg	5
EPA 6010B	Nickel, total by ICP	mg/kg	5
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5
EPA 7199	Chromium Hexavalent by Ion Chromatography	mg/kg	5
EPA 7471A	Mercury Cold-Vapor Technique	mg/kg	5
EPA 8081A	Organochlorine Pesticides by GC/ECD	ug/kg	5
EPA 8082	Polychlorinated Biphenyls (PCBs)	ug/kg	5
EPA 8270C-SIM	PAH Compounds by GC/MS SIM (Modified 8270C)	mg/kg	5

Client ID SB-33-D2.0 — **Sample Date** 04/5/2023 6:59

Lab ID BED0016-02 — **Matrix** Soil — **Quantity of Containers** 1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

Client ID SB-33-D3.0 — **Sample Date** 04/5/2023 7:05

Lab ID BED0016-03 — **Matrix** Soil — **Quantity of Containers** 1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51	

Samples Received

(Continued)

AETL received the following samples on 04/05/2023 with the following specifications

Client ID SB-34-D0.5 — **Sample Date** 04/5/2023 7:33

Lab ID BED0016-04 — **Matrix** Soil — **Quantity of Containers** 2

Method	Analyte	Units	TAT
EPA 6010B	Lead, total by ICP	mg/kg	5
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5
EPA 8081A	Organochlorine Pesticides by GC/ECD	ug/kg	5
EPA 8082	Polychlorinated Biphenyls (PCBs)	ug/kg	5

Client ID SB-34-D2.0 — **Sample Date** 04/5/2023 7:37

Lab ID BED0016-05 — **Matrix** Soil — **Quantity of Containers** 1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

Client ID SB-34-D3.0 — **Sample Date** 04/5/2023 7:43

Lab ID BED0016-06 — **Matrix** Soil — **Quantity of Containers** 1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51	

Samples Received

(Continued)

AETL received the following samples on 04/05/2023 with the following specifications

Client ID SB-35-D0.5 — **Sample Date** 04/5/2023 7:53

Lab ID BED0016-07 — **Matrix** Soil — **Quantity of Containers** 2

Method	Analyte	Units	TAT
EPA 6010B	Lead, total by ICP	mg/kg	5
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5
EPA 8081A	Organochlorine Pesticides by GC/ECD	ug/kg	5
EPA 8082	Polychlorinated Biphenyls (PCBs)	ug/kg	5

Client ID SB-35-D2.0 — **Sample Date** 04/5/2023 7:58

Lab ID BED0016-08 — **Matrix** Soil — **Quantity of Containers** 1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

Client ID SB-35-D3.0 — **Sample Date** 04/5/2023 8:11

Lab ID BED0016-09 — **Matrix** Soil — **Quantity of Containers** 1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

Client ID SB-39-D0.5 — **Sample Date** 04/5/2023 8:52

Lab ID BED0016-10 — **Matrix** Soil — **Quantity of Containers** 4

Method	Analyte	Units	TAT

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51	

Samples Received
(Continued)

AETL received the following samples on 04/05/2023 with the following specifications

EPA 600R-93/116	Asbestos by Polarized Light Microscopy Analysis	Percent	5
EPA 6010B	Cadmium, total by ICP	mg/kg	5
EPA 6010B	Lead, total by ICP	mg/kg	5
EPA 6010B	Nickel, total by ICP	mg/kg	5
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5
EPA 7199	Chromium Hexavalent by Ion Chromatography	mg/kg	5
EPA 7471A	Mercury Cold-Vapor Technique	mg/kg	5
EPA 8081A	Organochlorine Pesticides by GC/ECD	ug/kg	5
EPA 8082	Polychlorinated Biphenyls (PCBs)	ug/kg	5
EPA 8270C-SIM	PAH Compounds by GC/MS SIM (Modified 8270C)	mg/kg	5

Client ID			Sample Date
SB-39-D2.0			04/5/2023 8:56
Lab ID		**Matrix**	**Quantity of Containers**
BED0016-11		Soil	1
Method	**Analyte**	**Units**	**TAT**
Archive	Sample On Hold	N/A	0

Client ID			Sample Date
SB-39-D3.0			04/5/2023 9:00
Lab ID		**Matrix**	**Quantity of Containers**
BED0016-12		Soil	1
Method	**Analyte**	**Units**	**TAT**
Archive	Sample On Hold	N/A	0

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51	

Samples Received

(Continued)

AETL received the following samples on 04/05/2023 with the following specifications

Client ID SB-6-D0.5 — **Sample Date** 04/5/2023 9:25

Lab ID BED0016-13 — **Matrix** Soil — **Quantity of Containers** 4

Method	Analyte	Units	TAT
EPA 600R-93/116	Asbestos by Polarized Light Microscopy Analysis	Percent	5
EPA 6010B	Cadmium, total by ICP	mg/kg	5
EPA 6010B	Lead, total by ICP	mg/kg	5
EPA 6010B	Nickel, total by ICP	mg/kg	5
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5
EPA 7199	Chromium Hexavalent by Ion Chromatography	mg/kg	5
EPA 7471A	Mercury Cold-Vapor Technique	mg/kg	5
EPA 8081A	Organochlorine Pesticides by GC/ECD	ug/kg	5
EPA 8082	Polychlorinated Biphenyls (PCBs)	ug/kg	5
EPA 8270C-SIM	PAH Compounds by GC/MS SIM (Modified 8270C)	mg/kg	5

Client ID SB-6-D2.0 — **Sample Date** 04/5/2023 9:29

Lab ID BED0016-14 — **Matrix** Soil — **Quantity of Containers** 1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

Client ID SB-6-D3.0 — **Sample Date** 04/5/2023 9:33

Lab ID BED0016-15 — **Matrix** Soil — **Quantity of Containers** 1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51	

Samples Received

(Continued)

AETL received the following samples on 04/05/2023 with the following specifications

Client ID	Sample Date
SB-40-D0.5	04/5/2023 7:17

Lab ID	Matrix	Quantity of Containers
BED0016-16	Soil	2

Method	Analyte	Units	TAT
EPA 6010B	Lead, total by ICP	mg/kg	5
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5
EPA 8081A	Organochlorine Pesticides by GC/ECD	ug/kg	5

Client ID	Sample Date
SB-40-D2.0	04/5/2023 7:20

Lab ID	Matrix	Quantity of Containers
BED0016-17	Soil	1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

Client ID	Sample Date
SB-40-D3.0	04/5/2023 7:23

Lab ID	Matrix	Quantity of Containers
BED0016-18	Soil	1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51	

Samples Received

(Continued)

AETL received the following samples on 04/05/2023 with the following specifications

Client ID SB-38-D0.5 — **Sample Date** 04/5/2023 8:27

Lab ID BED0016-19 — **Matrix** Soil — **Quantity of Containers** 2

Method	Analyte	Units	TAT
EPA 6010B	Lead, total by ICP	mg/kg	5
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5
EPA 8081A	Organochlorine Pesticides by GC/ECD	ug/kg	5

Client ID SB-38-D0.5-Dup — **Sample Date** 04/5/2023 8:32

Lab ID BED0016-20 — **Matrix** Soil — **Quantity of Containers** 2

Method	Analyte	Units	TAT
EPA 6010B	Lead, total by ICP	mg/kg	5
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5
EPA 8081A	Organochlorine Pesticides by GC/ECD	ug/kg	5

Client ID SB-38-D2.0 — **Sample Date** 04/5/2023 8:34

Lab ID BED0016-21 — **Matrix** Soil — **Quantity of Containers** 1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51	

Samples Received

(Continued)

AETL received the following samples on 04/05/2023 with the following specifications

Client ID SB-38-D3.0 — **Sample Date** 04/5/2023 8:37

Lab ID BED0016-22 — **Matrix** Soil — **Quantity of Containers** 1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

Client ID SB-55-D0.5 — **Sample Date** 04/5/2023 9:48

Lab ID BED0016-23 — **Matrix** Soil — **Quantity of Containers** 2

Method	Analyte	Units	TAT
EPA 6010B	Lead, total by ICP	mg/kg	5
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5
EPA 8081A	Organochlorine Pesticides by GC/ECD	ug/kg	5

Client ID SB-55-D2.0 — **Sample Date** 04/5/2023 9:52

Lab ID BED0016-24 — **Matrix** Soil — **Quantity of Containers** 1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

Client ID SB-55-D3.0 — **Sample Date** 04/5/2023 9:55

Lab ID BED0016-25 — **Matrix** Soil — **Quantity of Containers** 1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51	

Samples Received

(Continued)

AETL received the following samples on 04/05/2023 with the following specifications

Client ID: SB-7-D0.5 | **Sample Date:** 04/5/2023 10:02

Lab ID: BED0016-26 | **Matrix:** Soil | **Quantity of Containers:** 2

Method	Analyte	Units	TAT
EPA 6010B	Lead, total by ICP	mg/kg	5
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5
EPA 8081A	Organochlorine Pesticides by GC/ECD	ug/kg	5

Client ID: SB-7-D0.5-Dup | **Sample Date:** 04/5/2023 10:07

Lab ID: BED0016-27 | **Matrix:** Soil | **Quantity of Containers:** 2

Method	Analyte	Units	TAT
EPA 6010B	Lead, total by ICP	mg/kg	5
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5
EPA 8081A	Organochlorine Pesticides by GC/ECD	ug/kg	5

Client ID: SB-7-D2.0 | **Sample Date:** 04/5/2023 10:09

Lab ID: BED0016-28 | **Matrix:** Soil | **Quantity of Containers:** 1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51	

Samples Received

(Continued)

AETL received the following samples on 04/05/2023 with the following specifications

Client ID: SB-7-D3.0 **Sample Date:** 04/5/2023 10:12

Lab ID: BED0016-29 **Matrix:** Soil **Quantity of Containers:** 1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

Client ID: SB-13-D0.5 **Sample Date:** 04/5/2023 10:41

Lab ID: BED0016-30 **Matrix:** Soil **Quantity of Containers:** 2

Method	Analyte	Units	TAT
EPA 6010B	Lead, total by ICP	mg/kg	5
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5
EPA 8081A	Organochlorine Pesticides by GC/ECD	ug/kg	5

Client ID: SB-11-D0.5 **Sample Date:** 04/5/2023 11:00

Lab ID: BED0016-31 **Matrix:** Soil **Quantity of Containers:** 4

Method	Analyte	Units	TAT
EPA 600R-93/116	Asbestos by Polarized Light Microscopy Analysis	Percent	5
EPA 6010B	Nickel, total by ICP	mg/kg	5
EPA 6010B	Cadmium, total by ICP	mg/kg	5
EPA 6010B	Lead, total by ICP	mg/kg	5
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5
EPA 7199	Chromium Hexavalent by Ion Chromatography	mg/kg	5
EPA 7471A	Mercury Cold-Vapor Technique	mg/kg	5
EPA 8081A	Organochlorine Pesticides by GC/ECD	ug/kg	5
EPA 8082	Polychlorinated Biphenyls (PCBs)	ug/kg	5

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51

Samples Received
(Continued)

AETL received the following samples on 04/05/2023 with the following specifications

Method	Analyte	Units	TAT
EPA 8270C-SIM	PAH Compounds by GC/MS SIM (Modified 8270C)	mg/kg	5

Client ID: SB-11-D2.0 **Sample Date:** 04/5/2023 11:06
Lab ID: BED0016-32 **Matrix:** Soil **Quantity of Containers:** 1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

Client ID: SB-11-D3.0 **Sample Date:** 04/5/2023 11:09
Lab ID: BED0016-33 **Matrix:** Soil **Quantity of Containers:** 1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

Client ID: SB-42-D0.5 **Sample Date:** 04/5/2023 13:00
Lab ID: BED0016-34 **Matrix:** Soil **Quantity of Containers:** 4

Method	Analyte	Units	TAT
EPA 600R-93/116	Asbestos by Polarized Light Microscopy Analysis	Percent	5
EPA 6010B	Nickel, total by ICP	mg/kg	5
EPA 6010B	Cadmium, total by ICP	mg/kg	5
EPA 6010B	Lead, total by ICP	mg/kg	5
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5
EPA 7199	Chromium Hexavalent by Ion Chromatography	mg/kg	5
EPA 7471A	Mercury Cold-Vapor Technique	mg/kg	5
EPA 8081A	Organochlorine Pesticides by GC/ECD	ug/kg	5

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51	

Samples Received

(Continued)

AETL received the following samples on 04/05/2023 with the following specifications

EPA 8082	Polychlorinated Biphenyls (PCBs)	ug/kg	5
EPA 8270C-SIM	PAH Compounds by GC/MS SIM (Modified 8270C)	mg/kg	5

Client ID: SB-42-D2.0 **Sample Date:** 04/5/2023 13:05

Lab ID: BED0016-35 **Matrix:** Soil **Quantity of Containers:** 1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

Client ID: SB-42-D3.0 **Sample Date:** 04/5/2023 13:10

Lab ID: BED0016-36 **Matrix:** Soil **Quantity of Containers:** 1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

Client ID: SB-45-D0.5 **Sample Date:** 04/5/2023 13:54

Lab ID: BED0016-37 **Matrix:** Soil **Quantity of Containers:** 4

Method	Analyte	Units	TAT
EPA 600R-93/116	Asbestos by Polarized Light Microscopy Analysis	Percent	5
EPA 6010B	Cadmium, total by ICP	mg/kg	5
EPA 6010B	Nickel, total by ICP	mg/kg	5
EPA 6010B	Lead, total by ICP	mg/kg	5
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5
EPA 7199	Chromium Hexavalent by Ion Chromatography	mg/kg	5
EPA 7471A	Mercury Cold-Vapor Technique	mg/kg	5

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51	

Samples Received

(Continued)

AETL received the following samples on 04/05/2023 with the following specifications

EPA 8081A	Organochlorine Pesticides by GC/ECD	ug/kg	5
EPA 8082	Polychlorinated Biphenyls (PCBs)	ug/kg	5
EPA 8270C-SIM	PAH Compounds by GC/MS SIM (Modified 8270C)	mg/kg	5

Client ID: SB-45-D2.0 **Sample Date:** 04/5/2023 13:58

Lab ID: BED0016-38 **Matrix:** Soil **Quantity of Containers:** 1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

Client ID: SB-45-D3.0 **Sample Date:** 04/5/2023 14:02

Lab ID: BED0016-39 **Matrix:** Soil **Quantity of Containers:** 1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

Client ID: SB-47-D0.5 **Sample Date:** 04/5/2023 14:37

Lab ID: BED0016-40 **Matrix:** Soil **Quantity of Containers:** 4

Method	Analyte	Units	TAT
EPA 600R-93/116	Asbestos by Polarized Light Microscopy Analysis	Percent	5
EPA 6010B	Cadmium, total by ICP	mg/kg	5
EPA 6010B	Lead, total by ICP	mg/kg	5
EPA 6010B	Nickel, total by ICP	mg/kg	5
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5
EPA 7199	Chromium Hexavalent by Ion Chromatography	mg/kg	5

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51	

Samples Received
(Continued)

AETL received the following samples on 04/05/2023 with the following specifications

EPA 7471A	Mercury Cold-Vapor Technique	mg/kg	5
EPA 8081A	Organochlorine Pesticides by GC/ECD	ug/kg	5
EPA 8082	Polychlorinated Biphenyls (PCBs)	ug/kg	5
EPA 8270C-SIM	PAH Compounds by GC/MS SIM (Modified 8270C)	mg/kg	5

Client ID: SB-47-D2.0 — **Sample Date:** 04/5/2023 14:39

Lab ID: BED0016-41 — **Matrix:** Soil — **Quantity of Containers:** 1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

Client ID: SB-47-D3.0 — **Sample Date:** 04/5/2023 14:43

Lab ID: BED0016-42 — **Matrix:** Soil — **Quantity of Containers:** 1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

Client ID: SB-44-D0.5 — **Sample Date:** 04/5/2023 14:12

Lab ID: BED0016-43 — **Matrix:** Soil — **Quantity of Containers:** 2

Method	Analyte	Units	TAT
EPA 6010B	Lead, total by ICP	mg/kg	5
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5
EPA 8081A	Organochlorine Pesticides by GC/ECD	ug/kg	5

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51	

Samples Received

(Continued)

AETL received the following samples on 04/05/2023 with the following specifications

Client ID	Sample Date
SB-44-D2.0	04/5/2023 14:16

Lab ID	Matrix	Quantity of Containers
BED0016-44	Soil	1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

Client ID	Sample Date
SB-44-D3.0	04/5/2023 14:20

Lab ID	Matrix	Quantity of Containers
BED0016-45	Soil	1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

Client ID	Sample Date
SB-13-D2.0	04/5/2023 10:44

Lab ID	Matrix	Quantity of Containers
BED0016-46	Soil	1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

Client ID	Sample Date
SB-13-D3.0	04/5/2023 10:47

Lab ID	Matrix	Quantity of Containers
BED0016-47	Soil	1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51	

Samples Received

(Continued)

AETL received the following samples on 04/05/2023 with the following specifications

Client ID: SB-14-D0.5 — **Sample Date:** 04/5/2023 11:33

Lab ID: BED0016-48 — **Matrix:** Soil — **Quantity of Containers:** 2

Method	Analyte	Units	TAT
EPA 6010B	Lead, total by ICP	mg/kg	5
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5
EPA 8081A	Organochlorine Pesticides by GC/ECD	ug/kg	5

Client ID: SB-14-D2.0 — **Sample Date:** 04/5/2023 11:37

Lab ID: BED0016-49 — **Matrix:** Soil — **Quantity of Containers:** 1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

Client ID: SB-14-D3.0 — **Sample Date:** 04/5/2023 11:41

Lab ID: BED0016-50 — **Matrix:** Soil — **Quantity of Containers:** 1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

Client ID: SB-41-D0.5 — **Sample Date:** 04/5/2023 12:37

Lab ID: BED0016-51 — **Matrix:** Soil — **Quantity of Containers:** 2

Method	Analyte	Units	TAT
EPA 6010B	Lead, total by ICP	mg/kg	5

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51

Samples Received
(Continued)

AETL received the following samples on 04/05/2023 with the following specifications

EPA 6020	Arsenic, total by ICP/MS	mg/kg	5
EPA 8081A	Organochlorine Pesticides by GC/ECD	ug/kg	5

Client ID: SB-41-D2.0 **Sample Date:** 04/5/2023 12:43

Lab ID: BED0016-52 **Matrix:** Soil **Quantity of Containers:** 1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

Client ID: SB-41-D3.0 **Sample Date:** 04/5/2023 12:48

Lab ID: BED0016-53 **Matrix:** Soil **Quantity of Containers:** 1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

Client ID: SB-43-D0.5 **Sample Date:** 04/5/2023 13:21

Lab ID: BED0016-54 **Matrix:** Soil **Quantity of Containers:** 2

Method	Analyte	Units	TAT
EPA 6010B	Lead, total by ICP	mg/kg	5
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5
EPA 8081A	Organochlorine Pesticides by GC/ECD	ug/kg	5

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51	

Samples Received

(Continued)

AETL received the following samples on 04/05/2023 with the following specifications

Client ID: SB-43-D2.0 — **Sample Date:** 04/5/2023 13:24
Lab ID: BED0016-55 — **Matrix:** Soil — **Quantity of Containers:** 1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

Client ID: SB-43-D3.0 — **Sample Date:** 04/5/2023 13:27
Lab ID: BED0016-56 — **Matrix:** Soil — **Quantity of Containers:** 1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

Client ID: SB-46-D0.5 — **Sample Date:** 04/5/2023 13:37
Lab ID: BED0016-57 — **Matrix:** Soil — **Quantity of Containers:** 2

Method	Analyte	Units	TAT
EPA 6010B	Lead, total by ICP	mg/kg	5
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5
EPA 8081A	Organochlorine Pesticides by GC/ECD	ug/kg	5

Client ID: SB-46-D2.0 — **Sample Date:** 04/5/2023 13:40
Lab ID: BED0016-58 — **Matrix:** Soil — **Quantity of Containers:** 1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51	

Samples Received

(Continued)

AETL received the following samples on 04/05/2023 with the following specifications

Client ID			Sample Date
SB-46-D3.0			04/5/2023 13:44
Lab ID		**Matrix**	**Quantity of Containers**
BED0016-59		Soil	1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

Total Number of Samples received: 59

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51	

Positive Hits Summary

Lab ID BED0016-01 | **Client ID** SB-33-D0.5 | **Sampled** 04/05/2023 06:56

Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	5.86		mg/kg	04/13/2023 13:29
EPA 6010B	Nickel	23.8		mg/kg	04/13/2023 13:29
EPA 7471A	Mercury	0.0233	J	mg/kg	04/10/2023 15:30
EPA 8081A	alpha-Chlordane	0.477	J	ug/kg	04/12/2023 16:32
EPA 8081A	gamma-Chlordane	0.348	J	ug/kg	04/12/2023 16:32
EPA 8081A	Heptachlor epoxide	0.122	J	ug/kg	04/12/2023 16:32

Lab ID BED0016-04 | **Client ID** SB-34-D0.5 | **Sampled** 04/05/2023 07:33

Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	11.6		mg/kg	04/13/2023 13:40
EPA 8081A	alpha-Chlordane	1.08		ug/kg	04/12/2023 16:49
EPA 8081A	gamma-Chlordane	0.974	J	ug/kg	04/12/2023 16:49
EPA 8081A	Chlordane (Total)	2.05		ug/kg	04/12/2023 16:49
EPA 8081A	4,4'-DDD (DDD)	0.260	J	ug/kg	04/12/2023 16:49
EPA 8081A	4,4'-DDE (DDE)	7.36		ug/kg	04/12/2023 16:49
EPA 8081A	4,4'-DDT (DDT)	10.2		ug/kg	04/12/2023 16:49
EPA 8081A	Endrin	0.391	J	ug/kg	04/12/2023 16:49

Lab ID BED0016-07 | **Client ID** SB-35-D0.5 | **Sampled** 04/05/2023 07:53

Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	97.8		mg/kg	04/13/2023 13:49
EPA 8081A	alpha-Chlordane	0.703	DIL, J	ug/kg	04/12/2023 17:06
EPA 8081A	gamma-Chlordane	0.784	DIL, J	ug/kg	04/12/2023 17:06
EPA 8081A	4,4'-DDE (DDE)	0.654	DIL, J	ug/kg	04/12/2023 17:06
EPA 8081A	4,4'-DDT (DDT)	2.43	DIL	ug/kg	04/12/2023 17:06
EPA 8081A	Dieldrin	3.08	DIL	ug/kg	04/12/2023 17:06
EPA 8081A	Endrin	0.234	DIL, J	ug/kg	04/12/2023 17:06

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51	

Positive Hits Summary
(Continued)

Lab ID	Client ID				Sampled
BED0016-10	SB-39-D0.5				04/05/2023 08:52
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	821	DIL	mg/kg	04/13/2023 16:27
EPA 6010B	Nickel	20.8		mg/kg	04/13/2023 13:52
EPA 7471A	Mercury	0.0327	J	mg/kg	04/10/2023 15:38
EPA 8081A	alpha-Chlordane	0.444	DIL, J	ug/kg	04/12/2023 17:23
EPA 8081A	gamma-Chlordane	0.436	DIL, J	ug/kg	04/12/2023 17:23
EPA 8081A	4,4'-DDD (DDD)	0.537	DIL, J	ug/kg	04/12/2023 17:23
EPA 8081A	4,4'-DDE (DDE)	9.16	DIL	ug/kg	04/12/2023 17:23
EPA 8081A	4,4'-DDT (DDT)	12.3	DIL	ug/kg	04/12/2023 17:23
EPA 8081A	Dieldrin	0.256	DIL, J	ug/kg	04/12/2023 17:23

Lab ID	Client ID				Sampled
BED0016-13	SB-6-D0.5				04/05/2023 09:25
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	5.19		mg/kg	04/13/2023 13:55
EPA 6010B	Nickel	19.5		mg/kg	04/13/2023 13:55
EPA 7471A	Mercury	0.0232	J	mg/kg	04/10/2023 15:40
EPA 8081A	4,4'-DDT (DDT)	0.268	J	ug/kg	04/12/2023 17:40
EPA 8081A	Dieldrin	0.135	J	ug/kg	04/12/2023 17:40

Lab ID	Client ID				Sampled
BED0016-16	SB-40-D0.5				04/05/2023 07:17
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	10.1		mg/kg	04/13/2023 13:58
EPA 8081A	4,4'-DDE (DDE)	1.59	DIL, J	ug/kg	04/12/2023 17:57
EPA 8081A	4,4'-DDT (DDT)	3.55	DIL	ug/kg	04/12/2023 17:57

Lab ID	Client ID				Sampled
BED0016-19	SB-38-D0.5				04/05/2023 08:27
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	6.70		mg/kg	04/13/2023 14:01
EPA 8081A	4,4'-DDE (DDE)	0.874	J	ug/kg	04/13/2023 09:04

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51	

Positive Hits Summary
(Continued)

Lab ID	Client ID				Sampled
BED0016-20	SB-38-D0.5-Dup				04/05/2023 08:32
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	6.87		mg/kg	04/13/2023 14:03
EPA 8081A	4,4'-DDE (DDE)	0.317	J	ug/kg	04/12/2023 18:31

Lab ID	Client ID				Sampled
BED0016-23	SB-55-D0.5				04/05/2023 09:48
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	23.1		mg/kg	04/13/2023 14:06
EPA 8081A	alpha-Chlordane	3.70		ug/kg	04/12/2023 18:48
EPA 8081A	gamma-Chlordane	2.34		ug/kg	04/12/2023 18:48
EPA 8081A	Chlordane (Total)	6.04		ug/kg	04/12/2023 18:48
EPA 8081A	4,4'-DDD (DDD)	0.332	J	ug/kg	04/12/2023 18:48
EPA 8081A	4,4'-DDE (DDE)	6.59		ug/kg	04/12/2023 18:48
EPA 8081A	4,4'-DDT (DDT)	5.67		ug/kg	04/12/2023 18:48
EPA 8081A	Heptachlor epoxide	0.208	J	ug/kg	04/12/2023 18:48

Lab ID	Client ID				Sampled
BED0016-26	SB-7-D0.5				04/05/2023 10:02
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	13.7		mg/kg	04/13/2023 14:09
EPA 8081A	alpha-Chlordane	0.680	J	ug/kg	04/12/2023 19:22
EPA 8081A	gamma-Chlordane	0.488	J	ug/kg	04/12/2023 19:22
EPA 8081A	Chlordane (Total)	1.17	J	ug/kg	04/12/2023 19:22
EPA 8081A	4,4'-DDE (DDE)	1.22		ug/kg	04/12/2023 19:22
EPA 8081A	4,4'-DDT (DDT)	0.967	J	ug/kg	04/12/2023 19:22

Lab ID	Client ID				Sampled
BED0016-27	SB-7-D0.5-Dup				04/05/2023 10:07
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	15.7		mg/kg	04/13/2023 14:12
EPA 8081A	alpha-Chlordane	0.840	J	ug/kg	04/12/2023 19:39
EPA 8081A	gamma-Chlordane	0.466	J	ug/kg	04/12/2023 19:39
EPA 8081A	Chlordane (Total)	1.31	J	ug/kg	04/12/2023 19:39

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51	

Positive Hits Summary
(Continued)

Lab ID	Client ID				Sampled
BED0016-27	SB-7-D0.5-Dup				04/05/2023 10:07
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 8081A	4,4'-DDE (DDE)	1.44		ug/kg	04/12/2023 19:39
EPA 8081A	4,4'-DDT (DDT)	0.730	J	ug/kg	04/12/2023 19:39
EPA 8081A	Endrin	0.128	J	ug/kg	04/12/2023 19:39

Lab ID	Client ID				Sampled
BED0016-30	SB-13-D0.5				04/05/2023 10:41
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	21.0		mg/kg	04/13/2023 14:15
EPA 8081A	4,4'-DDE (DDE)	0.170	J	ug/kg	04/12/2023 19:56
EPA 8081A	4,4'-DDT (DDT)	0.293	J	ug/kg	04/12/2023 19:56
EPA 8081A	Dieldrin	0.320	J	ug/kg	04/12/2023 19:56

Lab ID	Client ID				Sampled
BED0016-31	SB-11-D0.5				04/05/2023 11:00
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	6.61		mg/kg	04/13/2023 14:24
EPA 6010B	Nickel	25.5		mg/kg	04/13/2023 14:24
EPA 7471A	Mercury	0.0827	J	mg/kg	04/10/2023 15:42

Lab ID	Client ID				Sampled
BED0016-34	SB-42-D0.5				04/05/2023 13:00
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	20.4		mg/kg	04/13/2023 14:26
EPA 6010B	Nickel	18.4		mg/kg	04/13/2023 14:26
EPA 7471A	Mercury	0.0577	J	mg/kg	04/10/2023 15:50
EPA 8081A	4,4'-DDD (DDD)	0.322	J	ug/kg	04/12/2023 20:30
EPA 8081A	4,4'-DDE (DDE)	2.57		ug/kg	04/12/2023 20:30
EPA 8081A	4,4'-DDT (DDT)	1.10		ug/kg	04/12/2023 20:30
EPA 8081A	Endrin	0.356	J	ug/kg	04/12/2023 20:30

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51

Positive Hits Summary
(Continued)

Lab ID	Client ID				Sampled
BED0016-37	SB-45-D0.5				04/05/2023 13:54
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	10.4		mg/kg	04/13/2023 14:29
EPA 6010B	Nickel	14.1		mg/kg	04/13/2023 14:29
EPA 7471A	Mercury	0.0415	J	mg/kg	04/10/2023 15:52
EPA 8081A	alpha-Chlordane	0.230	J	ug/kg	04/12/2023 20:47
EPA 8081A	gamma-Chlordane	0.213	J	ug/kg	04/12/2023 20:47
EPA 8081A	4,4'-DDE (DDE)	1.14		ug/kg	04/12/2023 20:47
EPA 8081A	4,4'-DDT (DDT)	0.721	J	ug/kg	04/12/2023 20:47
EPA 8081A	Dieldrin	0.116	J	ug/kg	04/12/2023 20:47
EPA 8081A	Endrin	0.189	J	ug/kg	04/12/2023 20:47

Lab ID	Client ID				Sampled
BED0016-40	SB-47-D0.5				04/05/2023 14:37
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	13.0		mg/kg	04/13/2023 14:32
EPA 6010B	Nickel	25.0		mg/kg	04/13/2023 14:32
EPA 7471A	Mercury	0.0286	J	mg/kg	04/10/2023 15:54
EPA 8081A	alpha-Chlordane	1.21	DIL, J	ug/kg	04/12/2023 21:04
EPA 8081A	gamma-Chlordane	1.43	DIL, J	ug/kg	04/12/2023 21:04
EPA 8081A	Chlordane (Total)	2.64	DIL, J	ug/kg	04/12/2023 21:04
EPA 8081A	4,4'-DDD (DDD)	2.71	DIL	ug/kg	04/12/2023 21:04
EPA 8081A	4,4'-DDE (DDE)	33.0	DIL	ug/kg	04/12/2023 21:04
EPA 8081A	4,4'-DDT (DDT)	27.8	DIL	ug/kg	04/12/2023 21:04
EPA 8081A	Dieldrin	3.60	DIL	ug/kg	04/12/2023 21:04
EPA 8081A	Endrin	1.21	DIL, J	ug/kg	04/12/2023 21:04
EPA 8081A	Heptachlor epoxide	0.268	DIL, J	ug/kg	04/12/2023 21:04

Lab ID	Client ID				Sampled
BED0016-43	SB-44-D0.5				04/05/2023 14:12
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	16.9		mg/kg	04/13/2023 14:35
EPA 8081A	alpha-Chlordane	0.400	J	ug/kg	04/12/2023 21:21
EPA 8081A	gamma-Chlordane	0.416	J	ug/kg	04/12/2023 21:21
EPA 8081A	4,4'-DDD (DDD)	0.261	J	ug/kg	04/12/2023 21:21
EPA 8081A	4,4'-DDE (DDE)	6.21		ug/kg	04/12/2023 21:21

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51	

Positive Hits Summary
(Continued)

Lab ID	Client ID				Sampled
BED0016-43	SB-44-D0.5				04/05/2023 14:12
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 8081A	4,4'-DDT (DDT)	3.85		ug/kg	04/12/2023 21:21
EPA 8081A	Dieldrin	1.13		ug/kg	04/12/2023 21:21
EPA 8081A	Endrin	0.362	J	ug/kg	04/12/2023 21:21

Lab ID	Client ID				Sampled
BED0016-48	SB-14-D0.5				04/05/2023 11:33
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	16.4		mg/kg	04/13/2023 14:38

Lab ID	Client ID				Sampled
BED0016-51	SB-41-D0.5				04/05/2023 12:37
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	15.4		mg/kg	04/13/2023 14:41
EPA 8081A	4,4'-DDE (DDE)	0.240	J	ug/kg	04/12/2023 22:12
EPA 8081A	4,4'-DDT (DDT)	2.04		ug/kg	04/12/2023 22:12

Lab ID	Client ID				Sampled
BED0016-54	SB-43-D0.5				04/05/2023 13:21
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	20.7		mg/kg	04/13/2023 14:44
EPA 8081A	alpha-Chlordane	0.683	J	ug/kg	04/12/2023 22:29
EPA 8081A	gamma-Chlordane	0.618	J	ug/kg	04/12/2023 22:29
EPA 8081A	Chlordane (Total)	1.30	J	ug/kg	04/12/2023 22:29
EPA 8081A	4,4'-DDD (DDD)	0.296	J	ug/kg	04/12/2023 22:29
EPA 8081A	4,4'-DDE (DDE)	5.61		ug/kg	04/12/2023 22:29
EPA 8081A	4,4'-DDT (DDT)	4.91		ug/kg	04/12/2023 22:29
EPA 8081A	Dieldrin	0.949	J	ug/kg	04/12/2023 22:29
EPA 8081A	Endrin	0.201	J	ug/kg	04/12/2023 22:29

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51	

Positive Hits Summary
(Continued)

Lab ID	Client ID				Sampled
BED0016-57	SB-46-D0.5				04/05/2023 13:37
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	**Lead**	**0.625**	**J**	**mg/kg**	**04/13/2023 16:37**

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51	

Analytical Results

Client ID: SB-33-D0.5
Lab ID: BED0016-01 (Soil) **Sampled: 04/05/23 6:56**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Cadmium	ND		1	1.24	2.38	mg/kg	04/10/23 07:54	04/13/23 13:29	B3D0081	DT	3050B
Lead	**5.86**		1	0.550	5.00	mg/kg	04/10/23 07:54	04/13/23 13:29	B3D0081	DT	3050B
Nickel	**23.8**		1	2.38	4.76	mg/kg	04/10/23 07:54	04/13/23 13:29	B3D0081	DT	3050B
Method: EPA 7471A											
Mercury	**0.0233**	J	1	0.0180	0.170	mg/kg	04/07/23 12:01	04/10/23 15:30	B3D0083	LE	7471A
Polynuclear Aromatic Hydrocarbons											
Method: EPA 8270C-SIM											
2-Methylnaphthalene	ND		1	0.00199	0.0124	mg/kg	04/12/23 10:43	04/12/23 14:57	B3D0135	ATS	3550B
Acenaphthene	ND		1	0.0107	0.0248	mg/kg	04/12/23 10:43	04/12/23 14:57	B3D0135	ATS	3550B
Acenaphthylene	ND		1	0.00930	0.0248	mg/kg	04/12/23 10:43	04/12/23 14:57	B3D0135	ATS	3550B
Anthracene	ND		1	0.0111	0.0248	mg/kg	04/12/23 10:43	04/12/23 14:57	B3D0135	ATS	3550B
Benzo(a)anthracene	ND		1	0.00890	0.0248	mg/kg	04/12/23 10:43	04/12/23 14:57	B3D0135	ATS	3550B
Benzo(a)pyrene	ND		1	0.0120	0.0248	mg/kg	04/12/23 10:43	04/12/23 14:57	B3D0135	ATS	3550B
Benzo(b)fluoranthene	ND		1	0.00759	0.0248	mg/kg	04/12/23 10:43	04/12/23 14:57	B3D0135	ATS	3550B
Benzo(g,h,i)perylene	ND		1	0.0131	0.0248	mg/kg	04/12/23 10:43	04/12/23 14:57	B3D0135	ATS	3550B
Benzo(k)fluoranthene	ND		1	0.0118	0.0248	mg/kg	04/12/23 10:43	04/12/23 14:57	B3D0135	ATS	3550B
Chrysene	ND		1	0.00845	0.0248	mg/kg	04/12/23 10:43	04/12/23 14:57	B3D0135	ATS	3550B
Dibenzo(a,h)anthracene	ND		1	0.0167	0.0248	mg/kg	04/12/23 10:43	04/12/23 14:57	B3D0135	ATS	3550B
Fluoranthene	ND		1	0.0121	0.0248	mg/kg	04/12/23 10:43	04/12/23 14:57	B3D0135	ATS	3550B
Fluorene	ND		1	0.0115	0.0248	mg/kg	04/12/23 10:43	04/12/23 14:57	B3D0135	ATS	3550B
Indeno(1,2,3-cd)pyrene	ND		1	0.0169	0.0248	mg/kg	04/12/23 10:43	04/12/23 14:57	B3D0135	ATS	3550B
Naphthalene	ND		1	0.00929	0.0248	mg/kg	04/12/23 10:43	04/12/23 14:57	B3D0135	ATS	3550B
Phenanthrene	ND		1	0.0103	0.0248	mg/kg	04/12/23 10:43	04/12/23 14:57	B3D0135	ATS	3550B
Pyrene	ND		1	0.00974	0.0248	mg/kg	04/12/23 10:43	04/12/23 14:57	B3D0135	ATS	3550B
	Recovery				Acceptance Criteria						
Surrogate: p-Terphenyl-D14	*57.5%*				*40-130*		04/12/23 10:43	*04/12/23 14:57*	B3D0135	*ATS*	3550B
Organochlorine Pesticides											

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51	

Analytical Results

Client ID: SB-33-D0.5

Lab ID: BED0016-01 (Soil) **Sampled: 04/05/23 6:56**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Organochlorine Pesticides (Continued)											
Method: EPA 8081A											
Aldrin	ND		1	0.0900	1.00	ug/kg	04/12/23 12:54	04/12/23 16:32	B3D0149	BC	3550B
alpha-Chlordane	**0.477**	J	1	0.121	1.00	ug/kg	04/12/23 12:54	04/12/23 16:32	B3D0149	BC	3550B
gamma-Chlordane	**0.348**	J	1	0.114	1.00	ug/kg	04/12/23 12:54	04/12/23 16:32	B3D0149	BC	3550B
Chlordane (Total)	ND		1	1.00	2.00	ug/kg	04/12/23 12:54	04/12/23 16:32	B3D0149	BC	3550B
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	ND		1	0.0620	1.00	ug/kg	04/12/23 12:54	04/12/23 16:32	B3D0149	BC	3550B
alpha-Hexachlorocyclohexane (Alpha-BHC)	ND		1	0.0710	1.00	ug/kg	04/12/23 12:54	04/12/23 16:32	B3D0149	BC	3550B
beta-Hexachlorocyclohexane (Betta-BHC)	ND		1	0.217	1.00	ug/kg	04/12/23 12:54	04/12/23 16:32	B3D0149	BC	3550B
delta-Hexachlorocyclohexane (Delta-BHC)	ND		1	0.0880	1.00	ug/kg	04/12/23 12:54	04/12/23 16:32	B3D0149	BC	3550B
4,4'-DDD (DDD)	ND		1	0.0980	1.00	ug/kg	04/12/23 12:54	04/12/23 16:32	B3D0149	BC	3550B
4,4'-DDE (DDE)	ND		1	0.0930	1.00	ug/kg	04/12/23 12:54	04/12/23 16:32	B3D0149	BC	3550B
4,4'-DDT (DDT)	ND		1	0.235	1.00	ug/kg	04/12/23 12:54	04/12/23 16:32	B3D0149	BC	3550B
Dieldrin	ND		1	0.0950	1.00	ug/kg	04/12/23 12:54	04/12/23 16:32	B3D0149	BC	3550B
Endrin	ND		1	0.106	1.00	ug/kg	04/12/23 12:54	04/12/23 16:32	B3D0149	BC	3550B
Endrin aldehyde	ND		1	0.117	1.00	ug/kg	04/12/23 12:54	04/12/23 16:32	B3D0149	BC	3550B
Endrin ketone	ND		1	0.122	1.00	ug/kg	04/12/23 12:54	04/12/23 16:32	B3D0149	BC	3550B
Endosulfan 1	ND		1	0.115	1.00	ug/kg	04/12/23 12:54	04/12/23 16:32	B3D0149	BC	3550B
Endosulfan 11	ND		1	0.177	1.00	ug/kg	04/12/23 12:54	04/12/23 16:32	B3D0149	BC	3550B
Endosulfan sulfate	ND		1	0.0470	1.00	ug/kg	04/12/23 12:54	04/12/23 16:32	B3D0149	BC	3550B
Heptachlor	ND		1	0.206	1.00	ug/kg	04/12/23 12:54	04/12/23 16:32	B3D0149	BC	3550B
Heptachlor epoxide	**0.122**	J	1	0.101	1.00	ug/kg	04/12/23 12:54	04/12/23 16:32	B3D0149	BC	3550B
Methoxychlor	ND		1	0.310	1.00	ug/kg	04/12/23 12:54	04/12/23 16:32	B3D0149	BC	3550B
Toxaphene	ND		1	4.10	50.0	ug/kg	04/12/23 12:54	04/12/23 16:32	B3D0149	BC	3550B
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*87.8%*				*30-150*		04/12/23 12:54	*04/12/23 16:32*	B3D0149	*BC*	3550B
Surrogate: Tetrachloro-m-xylene	*59.6%*				*30-150*		04/12/23 12:54	*04/12/23 16:32*	B3D0149	*BC*	3550B
PCBs											
Method: EPA 8082											
Aroclor-1016 (PCB-1016)	ND		1	11.6	25.0	ug/kg	04/12/23 11:05	04/12/23 16:33	B3D0140	BC	3550B
Aroclor-1221 (PCB-1221)	ND		1	8.11	25.0	ug/kg	04/12/23 11:05	04/12/23 16:33	B3D0140	BC	3550B

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51	

Analytical Results

Client ID: SB-33-D0.5

Lab ID: BED0016-01 (Soil) **Sampled: 04/05/23 6:56**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
PCBs (Continued)											
Aroclor-1232 (PCB-1232)	ND		1	15.2	25.0	ug/kg	04/12/23 11:05	04/12/23 16:33	B3D0140	BC	3550B
Aroclor-1242 (PCB-1242)	ND		1	5.25	25.0	ug/kg	04/12/23 11:05	04/12/23 16:33	B3D0140	BC	3550B
Aroclor-1248 (PCB-1248)	ND		1	11.0	25.0	ug/kg	04/12/23 11:05	04/12/23 16:33	B3D0140	BC	3550B
Aroclor-1254 (PCB-1254)	ND		1	11.9	25.0	ug/kg	04/12/23 11:05	04/12/23 16:33	B3D0140	BC	3550B
Aroclor-1260 (PCB-1260)	ND		1	6.02	25.0	ug/kg	04/12/23 11:05	04/12/23 16:33	B3D0140	BC	3550B
Aroclor-1262 (PCB-1262)	ND		1	20.0	50.0	ug/kg	04/12/23 11:05	04/12/23 16:33	B3D0140	BC	3550B
Aroclor-1268 (PCB-1268)	ND		1	20.0	50.0	ug/kg	04/12/23 11:05	04/12/23 16:33	B3D0140	BC	3550B
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*76.5%*				*50-150*		04/12/23 11:05	*04/12/23 16:33*	B3D0140	*BC*	3550B
Surrogate: Tetrachloro-m-xylene	*55.1%*				*50-150*		04/12/23 11:05	*04/12/23 16:33*	B3D0140	*BC*	3550B

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51	

Analytical Results

Client ID: SB-34-D0.5
Lab ID: BED0016-04 (Soil) **Sampled: 04/05/23 7:33**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Lead	**11.6**		1	0.550	5.00	mg/kg	04/10/23 07:54	04/13/23 13:40	B3D0081	DT	3050B
Organochlorine Pesticides											
Method: EPA 8081A											
Aldrin	ND		1	0.0900	1.00	ug/kg	04/12/23 12:54	04/12/23 16:49	B3D0149	BC	3550B
alpha-Chlordane	**1.08**		1	0.121	1.00	ug/kg	04/12/23 12:54	04/12/23 16:49	B3D0149	BC	3550B
gamma-Chlordane	**0.974**	J	1	0.114	1.00	ug/kg	04/12/23 12:54	04/12/23 16:49	B3D0149	BC	3550B
Chlordane (Total)	**2.05**		1	1.00	2.00	ug/kg	04/12/23 12:54	04/12/23 16:49	B3D0149	BC	3550B
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	ND		1	0.0620	1.00	ug/kg	04/12/23 12:54	04/12/23 16:49	B3D0149	BC	3550B
alpha-Hexachlorocyclohexane (Alpha-BHC)	ND		1	0.0710	1.00	ug/kg	04/12/23 12:54	04/12/23 16:49	B3D0149	BC	3550B
beta-Hexachlorocyclohexane (Betta-BHC)	ND		1	0.217	1.00	ug/kg	04/12/23 12:54	04/12/23 16:49	B3D0149	BC	3550B
delta-Hexachlorocyclohexane (Delta-BHC)	ND		1	0.0880	1.00	ug/kg	04/12/23 12:54	04/12/23 16:49	B3D0149	BC	3550B
4,4'-DDD (DDD)	**0.260**	J	1	0.0980	1.00	ug/kg	04/12/23 12:54	04/12/23 16:49	B3D0149	BC	3550B
4,4'-DDE (DDE)	**7.36**		1	0.0930	1.00	ug/kg	04/12/23 12:54	04/12/23 16:49	B3D0149	BC	3550B
4,4'-DDT (DDT)	**10.2**		1	0.235	1.00	ug/kg	04/12/23 12:54	04/12/23 16:49	B3D0149	BC	3550B
Dieldrin	ND		1	0.0950	1.00	ug/kg	04/12/23 12:54	04/12/23 16:49	B3D0149	BC	3550B
Endrin	**0.391**	J	1	0.106	1.00	ug/kg	04/12/23 12:54	04/12/23 16:49	B3D0149	BC	3550B
Endrin aldehyde	ND		1	0.117	1.00	ug/kg	04/12/23 12:54	04/12/23 16:49	B3D0149	BC	3550B
Endrin ketone	ND		1	0.122	1.00	ug/kg	04/12/23 12:54	04/12/23 16:49	B3D0149	BC	3550B
Endosulfan 1	ND		1	0.115	1.00	ug/kg	04/12/23 12:54	04/12/23 16:49	B3D0149	BC	3550B
Endosulfan 11	ND		1	0.177	1.00	ug/kg	04/12/23 12:54	04/12/23 16:49	B3D0149	BC	3550B
Endosulfan sulfate	ND		1	0.0470	1.00	ug/kg	04/12/23 12:54	04/12/23 16:49	B3D0149	BC	3550B
Heptachlor	ND		1	0.206	1.00	ug/kg	04/12/23 12:54	04/12/23 16:49	B3D0149	BC	3550B
Heptachlor epoxide	ND		1	0.101	1.00	ug/kg	04/12/23 12:54	04/12/23 16:49	B3D0149	BC	3550B
Methoxychlor	ND		1	0.310	1.00	ug/kg	04/12/23 12:54	04/12/23 16:49	B3D0149	BC	3550B
Toxaphene	ND		1	4.10	50.0	ug/kg	04/12/23 12:54	04/12/23 16:49	B3D0149	BC	3550B
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*80.3%*				*30-150*		04/12/23 12:54	*04/12/23 16:49*	B3D0149	*BC*	3550B
Surrogate: Tetrachloro-m-xylene	*55.0%*				*30-150*		04/12/23 12:54	*04/12/23 16:49*	B3D0149	*BC*	3550B

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51	

Analytical Results

Client ID: SB-34-D0.5
Lab ID: BED0016-04 (Soil) **Sampled:** 04/05/23 7:33

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Organochlorine Pesticides (Continued)											
PCBs											
Method: EPA 8082											
Aroclor-1016 (PCB-1016)	ND		1	11.6	25.0	ug/kg	04/12/23 11:05	04/12/23 17:11	B3D0140	BC	3550B
Aroclor-1221 (PCB-1221)	ND		1	8.11	25.0	ug/kg	04/12/23 11:05	04/12/23 17:11	B3D0140	BC	3550B
Aroclor-1232 (PCB-1232)	ND		1	15.2	25.0	ug/kg	04/12/23 11:05	04/12/23 17:11	B3D0140	BC	3550B
Aroclor-1242 (PCB-1242)	ND		1	5.25	25.0	ug/kg	04/12/23 11:05	04/12/23 17:11	B3D0140	BC	3550B
Aroclor-1248 (PCB-1248)	ND		1	11.0	25.0	ug/kg	04/12/23 11:05	04/12/23 17:11	B3D0140	BC	3550B
Aroclor-1254 (PCB-1254)	ND		1	11.9	25.0	ug/kg	04/12/23 11:05	04/12/23 17:11	B3D0140	BC	3550B
Aroclor-1260 (PCB-1260)	ND		1	6.02	25.0	ug/kg	04/12/23 11:05	04/12/23 17:11	B3D0140	BC	3550B
Aroclor-1262 (PCB-1262)	ND		1	20.0	50.0	ug/kg	04/12/23 11:05	04/12/23 17:11	B3D0140	BC	3550B
Aroclor-1268 (PCB-1268)	ND		1	20.0	50.0	ug/kg	04/12/23 11:05	04/12/23 17:11	B3D0140	BC	3550B
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*78.9%*				*50-150*		04/12/23 11:05	*04/12/23 17:11*	B3D0140	*BC*	3550B
Surrogate: Tetrachloro-m-xylene	*51.2%*				*50-150*		04/12/23 11:05	*04/12/23 17:11*	B3D0140	*BC*	3550B

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51	

Analytical Results

Client ID: SB-35-D0.5
Lab ID: BED0016-07 (Soil) **Sampled: 04/05/23 7:53**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Lead	**97.8**		1	0.550	5.00	mg/kg	04/10/23 07:54	04/13/23 13:49	B3D0081	DT	3050B
Organochlorine Pesticides											
Method: EPA 8081A											
Aldrin	ND	D	2	0.180	2.00	ug/kg	04/12/23 12:54	04/12/23 17:06	B3D0149	BC	3550B
alpha-Chlordane	**0.703**	DIL, J	2	0.242	2.00	ug/kg	04/12/23 12:54	04/12/23 17:06	B3D0149	BC	3550B
gamma-Chlordane	**0.784**	DIL, J	2	0.228	2.00	ug/kg	04/12/23 12:54	04/12/23 17:06	B3D0149	BC	3550B
Chlordane (Total)	ND	D	2	2.00	4.00	ug/kg	04/12/23 12:54	04/12/23 17:06	B3D0149	BC	3550B
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	ND	D	2	0.124	2.00	ug/kg	04/12/23 12:54	04/12/23 17:06	B3D0149	BC	3550B
alpha-Hexachlorocyclohexane (Alpha-BHC)	ND	D	2	0.142	2.00	ug/kg	04/12/23 12:54	04/12/23 17:06	B3D0149	BC	3550B
beta-Hexachlorocyclohexane (Betta-BHC)	ND	D	2	0.434	2.00	ug/kg	04/12/23 12:54	04/12/23 17:06	B3D0149	BC	3550B
delta-Hexachlorocyclohexane (Delta-BHC)	ND	D	2	0.176	2.00	ug/kg	04/12/23 12:54	04/12/23 17:06	B3D0149	BC	3550B
4,4'-DDD (DDD)	ND	D	2	0.196	2.00	ug/kg	04/12/23 12:54	04/12/23 17:06	B3D0149	BC	3550B
4,4'-DDE (DDE)	**0.654**	DIL, J	2	0.186	2.00	ug/kg	04/12/23 12:54	04/12/23 17:06	B3D0149	BC	3550B
4,4'-DDT (DDT)	**2.43**	DIL	2	0.470	2.00	ug/kg	04/12/23 12:54	04/12/23 17:06	B3D0149	BC	3550B
Dieldrin	**3.08**	DIL	2	0.190	2.00	ug/kg	04/12/23 12:54	04/12/23 17:06	B3D0149	BC	3550B
Endrin	**0.234**	DIL, J	2	0.212	2.00	ug/kg	04/12/23 12:54	04/12/23 17:06	B3D0149	BC	3550B
Endrin aldehyde	ND	D	2	0.234	2.00	ug/kg	04/12/23 12:54	04/12/23 17:06	B3D0149	BC	3550B
Endrin ketone	ND	D	2	0.244	2.00	ug/kg	04/12/23 12:54	04/12/23 17:06	B3D0149	BC	3550B
Endosulfan 1	ND	D	2	0.230	2.00	ug/kg	04/12/23 12:54	04/12/23 17:06	B3D0149	BC	3550B
Endosulfan 11	ND	D	2	0.354	2.00	ug/kg	04/12/23 12:54	04/12/23 17:06	B3D0149	BC	3550B
Endosulfan sulfate	ND	D	2	0.0940	2.00	ug/kg	04/12/23 12:54	04/12/23 17:06	B3D0149	BC	3550B
Heptachlor	ND	D	2	0.412	2.00	ug/kg	04/12/23 12:54	04/12/23 17:06	B3D0149	BC	3550B
Heptachlor epoxide	ND	D	2	0.202	2.00	ug/kg	04/12/23 12:54	04/12/23 17:06	B3D0149	BC	3550B
Methoxychlor	ND	D	2	0.620	2.00	ug/kg	04/12/23 12:54	04/12/23 17:06	B3D0149	BC	3550B
Toxaphene	ND	D	2	8.20	100	ug/kg	04/12/23 12:54	04/12/23 17:06	B3D0149	BC	3550B
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*68.6%*				*30-150*		04/12/23 12:54	*04/12/23 17:06*	B3D0149	*BC*	3550B
Surrogate: Tetrachloro-m-xylene	*62.0%*				*30-150*		04/12/23 12:54	*04/12/23 17:06*	B3D0149	*BC*	3550B

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100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51	

Analytical Results

Client ID: SB-35-D0.5
Lab ID: BED0016-07 (Soil) **Sampled:** 04/05/23 7:53

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Organochlorine Pesticides (Continued)											
PCBs											
Method: EPA 8082											
Aroclor-1016 (PCB-1016)	ND	D	2	23.2	50.0	ug/kg	04/12/23 11:05	04/12/23 17:30	B3D0140	BC	3550B
Aroclor-1221 (PCB-1221)	ND	D	2	16.2	50.0	ug/kg	04/12/23 11:05	04/12/23 17:30	B3D0140	BC	3550B
Aroclor-1232 (PCB-1232)	ND	D	2	30.4	50.0	ug/kg	04/12/23 11:05	04/12/23 17:30	B3D0140	BC	3550B
Aroclor-1242 (PCB-1242)	ND	D	2	10.5	50.0	ug/kg	04/12/23 11:05	04/12/23 17:30	B3D0140	BC	3550B
Aroclor-1248 (PCB-1248)	ND	D	2	22.0	50.0	ug/kg	04/12/23 11:05	04/12/23 17:30	B3D0140	BC	3550B
Aroclor-1254 (PCB-1254)	ND	D	2	23.8	50.0	ug/kg	04/12/23 11:05	04/12/23 17:30	B3D0140	BC	3550B
Aroclor-1260 (PCB-1260)	ND	D	2	12.0	50.0	ug/kg	04/12/23 11:05	04/12/23 17:30	B3D0140	BC	3550B
Aroclor-1262 (PCB-1262)	ND	D	2	40.0	100	ug/kg	04/12/23 11:05	04/12/23 17:30	B3D0140	BC	3550B
Aroclor-1268 (PCB-1268)	ND	D	2	40.0	100	ug/kg	04/12/23 11:05	04/12/23 17:30	B3D0140	BC	3550B
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*88.8%*				*50-150*		04/12/23 11:05	*04/12/23 17:30*	B3D0140	*BC*	3550B
Surrogate: Tetrachloro-m-xylene	*62.8%*				*50-150*		04/12/23 11:05	*04/12/23 17:30*	B3D0140	*BC*	3550B

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51	

Analytical Results

Client ID: SB-39-D0.5
Lab ID: BED0016-10 (Soil) **Sampled: 04/05/23 8:52**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Cadmium	ND		1	1.30	2.50	mg/kg	04/10/23 07:54	04/13/23 13:52	B3D0081	DT	3050B
Lead	**821**	DIL	5	2.75	25.0	mg/kg	04/10/23 07:54	04/13/23 16:27	B3D0081	DT	3050B
Nickel	**20.8**		1	2.50	5.00	mg/kg	04/10/23 07:54	04/13/23 13:52	B3D0081	DT	3050B
Method: EPA 7471A											
Mercury	**0.0327**	J	1	0.0180	0.170	mg/kg	04/07/23 12:01	04/10/23 15:38	B3D0083	LE	7471A
Polynuclear Aromatic Hydrocarbons											
Method: EPA 8270C-SIM											
2-Methylnaphthalene	ND		1	0.0394	0.247	mg/kg	04/12/23 10:43	04/12/23 15:32	B3D0135	ATS	3550B
Acenaphthene	ND		1	0.213	0.493	mg/kg	04/12/23 10:43	04/12/23 15:32	B3D0135	ATS	3550B
Acenaphthylene	ND		1	0.185	0.493	mg/kg	04/12/23 10:43	04/12/23 15:32	B3D0135	ATS	3550B
Anthracene	ND		1	0.221	0.493	mg/kg	04/12/23 10:43	04/12/23 15:32	B3D0135	ATS	3550B
Benzo(a)anthracene	ND		1	0.177	0.493	mg/kg	04/12/23 10:43	04/12/23 15:32	B3D0135	ATS	3550B
Benzo(a)pyrene	ND		1	0.239	0.493	mg/kg	04/12/23 10:43	04/12/23 15:32	B3D0135	ATS	3550B
Benzo(b)fluoranthene	ND		1	0.151	0.493	mg/kg	04/12/23 10:43	04/12/23 15:32	B3D0135	ATS	3550B
Benzo(g,h,i)perylene	ND		1	0.261	0.493	mg/kg	04/12/23 10:43	04/12/23 15:32	B3D0135	ATS	3550B
Benzo(k)fluoranthene	ND		1	0.235	0.493	mg/kg	04/12/23 10:43	04/12/23 15:32	B3D0135	ATS	3550B
Chrysene	ND		1	0.168	0.493	mg/kg	04/12/23 10:43	04/12/23 15:32	B3D0135	ATS	3550B
Dibenzo(a,h)anthracene	ND		1	0.331	0.493	mg/kg	04/12/23 10:43	04/12/23 15:32	B3D0135	ATS	3550B
Fluoranthene	ND		1	0.240	0.493	mg/kg	04/12/23 10:43	04/12/23 15:32	B3D0135	ATS	3550B
Fluorene	ND		1	0.228	0.493	mg/kg	04/12/23 10:43	04/12/23 15:32	B3D0135	ATS	3550B
Indeno(1,2,3-cd)pyrene	ND		1	0.336	0.493	mg/kg	04/12/23 10:43	04/12/23 15:32	B3D0135	ATS	3550B
Naphthalene	ND		1	0.185	0.493	mg/kg	04/12/23 10:43	04/12/23 15:32	B3D0135	ATS	3550B
Phenanthrene	ND		1	0.204	0.493	mg/kg	04/12/23 10:43	04/12/23 15:32	B3D0135	ATS	3550B
Pyrene	ND		1	0.193	0.493	mg/kg	04/12/23 10:43	04/12/23 15:32	B3D0135	ATS	3550B
	Recovery				Acceptance Criteria						
Surrogate: p-Terphenyl-D14	*55.0%*				*40-130*		04/12/23 10:43	*04/12/23 15:32*	B3D0135	*ATS*	3550B
Organochlorine Pesticides											

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51	

Analytical Results

Client ID: SB-39-D0.5

Lab ID: BED0016-10 (Soil) **Sampled: 04/05/23 8:52**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Organochlorine Pesticides (Continued)											
Method: EPA 8081A											
Aldrin	ND	D	2	0.180	2.00	ug/kg	04/12/23 12:54	04/12/23 17:23	B3D0149	BC	3550B
alpha-Chlordane	**0.444**	DIL, J	2	0.242	2.00	ug/kg	04/12/23 12:54	04/12/23 17:23	B3D0149	BC	3550B
gamma-Chlordane	**0.436**	DIL, J	2	0.228	2.00	ug/kg	04/12/23 12:54	04/12/23 17:23	B3D0149	BC	3550B
Chlordane (Total)	ND	D	2	2.00	4.00	ug/kg	04/12/23 12:54	04/12/23 17:23	B3D0149	BC	3550B
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	ND	D	2	0.124	2.00	ug/kg	04/12/23 12:54	04/12/23 17:23	B3D0149	BC	3550B
alpha-Hexachlorocyclohexane (Alpha-BHC)	ND	D	2	0.142	2.00	ug/kg	04/12/23 12:54	04/12/23 17:23	B3D0149	BC	3550B
beta-Hexachlorocyclohexane (Betta-BHC)	ND	D	2	0.434	2.00	ug/kg	04/12/23 12:54	04/12/23 17:23	B3D0149	BC	3550B
delta-Hexachlorocyclohexane (Delta-BHC)	ND	D	2	0.176	2.00	ug/kg	04/12/23 12:54	04/12/23 17:23	B3D0149	BC	3550B
4,4'-DDD (DDD)	**0.537**	DIL, J	2	0.196	2.00	ug/kg	04/12/23 12:54	04/12/23 17:23	B3D0149	BC	3550B
4,4'-DDE (DDE)	**9.16**	DIL	2	0.186	2.00	ug/kg	04/12/23 12:54	04/12/23 17:23	B3D0149	BC	3550B
4,4'-DDT (DDT)	**12.3**	DIL	2	0.470	2.00	ug/kg	04/12/23 12:54	04/12/23 17:23	B3D0149	BC	3550B
Dieldrin	**0.256**	DIL, J	2	0.190	2.00	ug/kg	04/12/23 12:54	04/12/23 17:23	B3D0149	BC	3550B
Endrin	ND	D	2	0.212	2.00	ug/kg	04/12/23 12:54	04/12/23 17:23	B3D0149	BC	3550B
Endrin aldehyde	ND	D	2	0.234	2.00	ug/kg	04/12/23 12:54	04/12/23 17:23	B3D0149	BC	3550B
Endrin ketone	ND	D	2	0.244	2.00	ug/kg	04/12/23 12:54	04/12/23 17:23	B3D0149	BC	3550B
Endosulfan 1	ND	D	2	0.230	2.00	ug/kg	04/12/23 12:54	04/12/23 17:23	B3D0149	BC	3550B
Endosulfan 11	ND	D	2	0.354	2.00	ug/kg	04/12/23 12:54	04/12/23 17:23	B3D0149	BC	3550B
Endosulfan sulfate	ND	D	2	0.0940	2.00	ug/kg	04/12/23 12:54	04/12/23 17:23	B3D0149	BC	3550B
Heptachlor	ND	D	2	0.412	2.00	ug/kg	04/12/23 12:54	04/12/23 17:23	B3D0149	BC	3550B
Heptachlor epoxide	ND	D	2	0.202	2.00	ug/kg	04/12/23 12:54	04/12/23 17:23	B3D0149	BC	3550B
Methoxychlor	ND	D	2	0.620	2.00	ug/kg	04/12/23 12:54	04/12/23 17:23	B3D0149	BC	3550B
Toxaphene	ND	D	2	8.20	100	ug/kg	04/12/23 12:54	04/12/23 17:23	B3D0149	BC	3550B
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*68.7%*				*30-150*		04/12/23 12:54	*04/12/23 17:23*	B3D0149	*BC*	3550B
Surrogate: Tetrachloro-m-xylene	*57.7%*				*30-150*		04/12/23 12:54	*04/12/23 17:23*	B3D0149	*BC*	3550B
PCBs											
Method: EPA 8082											
Aroclor-1016 (PCB-1016)	ND	D	2	23.2	50.0	ug/kg	04/12/23 11:05	04/12/23 17:49	B3D0140	BC	3550B
Aroclor-1221 (PCB-1221)	ND	D	2	16.2	50.0	ug/kg	04/12/23 11:05	04/12/23 17:49	B3D0140	BC	3550B

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51	

Analytical Results

Client ID: SB-39-D0.5

Lab ID: BED0016-10 (Soil) **Sampled: 04/05/23 8:52**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
PCBs (Continued)											
Aroclor-1232 (PCB-1232)	ND	D	2	30.4	50.0	ug/kg	04/12/23 11:05	04/12/23 17:49	B3D0140	BC	3550B
Aroclor-1242 (PCB-1242)	ND	D	2	10.5	50.0	ug/kg	04/12/23 11:05	04/12/23 17:49	B3D0140	BC	3550B
Aroclor-1248 (PCB-1248)	ND	D	2	22.0	50.0	ug/kg	04/12/23 11:05	04/12/23 17:49	B3D0140	BC	3550B
Aroclor-1254 (PCB-1254)	ND	D	2	23.8	50.0	ug/kg	04/12/23 11:05	04/12/23 17:49	B3D0140	BC	3550B
Aroclor-1260 (PCB-1260)	ND	D	2	12.0	50.0	ug/kg	04/12/23 11:05	04/12/23 17:49	B3D0140	BC	3550B
Aroclor-1262 (PCB-1262)	ND	D	2	40.0	100	ug/kg	04/12/23 11:05	04/12/23 17:49	B3D0140	BC	3550B
Aroclor-1268 (PCB-1268)	ND	D	2	40.0	100	ug/kg	04/12/23 11:05	04/12/23 17:49	B3D0140	BC	3550B
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*96.3%*				*50-150*		04/12/23 11:05	*04/12/23 17:49*	B3D0140	*BC*	3550B
Surrogate: Tetrachloro-m-xylene	*69.0%*				*50-150*		04/12/23 11:05	*04/12/23 17:49*	B3D0140	*BC*	3550B

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100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51	

Analytical Results

Client ID: SB-6-D0.5
Lab ID: BED0016-13 (Soil) **Sampled: 04/05/23 9:25**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Cadmium	ND		1	1.24	2.38	mg/kg	04/10/23 07:54	04/13/23 13:55	B3D0081	DT	3050B
Lead	**5.19**		1	0.550	5.00	mg/kg	04/10/23 07:54	04/13/23 13:55	B3D0081	DT	3050B
Nickel	**19.5**		1	2.38	4.76	mg/kg	04/10/23 07:54	04/13/23 13:55	B3D0081	DT	3050B
Method: EPA 7471A											
Mercury	**0.0232**	J	1	0.0180	0.170	mg/kg	04/07/23 12:01	04/10/23 15:40	B3D0083	LE	7471A
Polynuclear Aromatic Hydrocarbons											
Method: EPA 8270C-SIM											
2-Methylnaphthalene	ND		1	0.00200	0.0125	mg/kg	04/12/23 10:43	04/12/23 16:08	B3D0135	ATS	3550B
Acenaphthene	ND		1	0.0108	0.0250	mg/kg	04/12/23 10:43	04/12/23 16:08	B3D0135	ATS	3550B
Acenaphthylene	ND		1	0.00937	0.0250	mg/kg	04/12/23 10:43	04/12/23 16:08	B3D0135	ATS	3550B
Anthracene	ND		1	0.0112	0.0250	mg/kg	04/12/23 10:43	04/12/23 16:08	B3D0135	ATS	3550B
Benzo(a)anthracene	ND		1	0.00896	0.0250	mg/kg	04/12/23 10:43	04/12/23 16:08	B3D0135	ATS	3550B
Benzo(a)pyrene	ND		1	0.0121	0.0250	mg/kg	04/12/23 10:43	04/12/23 16:08	B3D0135	ATS	3550B
Benzo(b)fluoranthene	ND		1	0.00764	0.0250	mg/kg	04/12/23 10:43	04/12/23 16:08	B3D0135	ATS	3550B
Benzo(g,h,i)perylene	ND		1	0.0132	0.0250	mg/kg	04/12/23 10:43	04/12/23 16:08	B3D0135	ATS	3550B
Benzo(k)fluoranthene	ND		1	0.0119	0.0250	mg/kg	04/12/23 10:43	04/12/23 16:08	B3D0135	ATS	3550B
Chrysene	ND		1	0.00851	0.0250	mg/kg	04/12/23 10:43	04/12/23 16:08	B3D0135	ATS	3550B
Dibenzo(a,h)anthracene	ND		1	0.0168	0.0250	mg/kg	04/12/23 10:43	04/12/23 16:08	B3D0135	ATS	3550B
Fluoranthene	ND		1	0.0122	0.0250	mg/kg	04/12/23 10:43	04/12/23 16:08	B3D0135	ATS	3550B
Fluorene	ND		1	0.0116	0.0250	mg/kg	04/12/23 10:43	04/12/23 16:08	B3D0135	ATS	3550B
Indeno(1,2,3-cd)pyrene	ND		1	0.0171	0.0250	mg/kg	04/12/23 10:43	04/12/23 16:08	B3D0135	ATS	3550B
Naphthalene	ND		1	0.00936	0.0250	mg/kg	04/12/23 10:43	04/12/23 16:08	B3D0135	ATS	3550B
Phenanthrene	ND		1	0.0103	0.0250	mg/kg	04/12/23 10:43	04/12/23 16:08	B3D0135	ATS	3550B
Pyrene	ND		1	0.00981	0.0250	mg/kg	04/12/23 10:43	04/12/23 16:08	B3D0135	ATS	3550B
	Recovery				Acceptance Criteria						
Surrogate: p-Terphenyl-D14	*52.0%*				*40-130*		04/12/23 10:43	*04/12/23 16:08*	B3D0135	*ATS*	3550B
Organochlorine Pesticides											

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51	

Analytical Results

Client ID: SB-6-D0.5

Lab ID: BED0016-13 (Soil) **Sampled: 04/05/23 9:25**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Organochlorine Pesticides (Continued)											
Method: EPA 8081A											
Aldrin	ND		1	0.0900	1.00	ug/kg	04/12/23 12:54	04/12/23 17:40	B3D0149	BC	3550B
alpha-Chlordane	ND		1	0.121	1.00	ug/kg	04/12/23 12:54	04/12/23 17:40	B3D0149	BC	3550B
gamma-Chlordane	ND		1	0.114	1.00	ug/kg	04/12/23 12:54	04/12/23 17:40	B3D0149	BC	3550B
Chlordane (Total)	ND		1	1.00	2.00	ug/kg	04/12/23 12:54	04/12/23 17:40	B3D0149	BC	3550B
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	ND		1	0.0620	1.00	ug/kg	04/12/23 12:54	04/12/23 17:40	B3D0149	BC	3550B
alpha-Hexachlorocyclohexane (Alpha-BHC)	ND		1	0.0710	1.00	ug/kg	04/12/23 12:54	04/12/23 17:40	B3D0149	BC	3550B
beta-Hexachlorocyclohexane (Betta-BHC)	ND		1	0.217	1.00	ug/kg	04/12/23 12:54	04/12/23 17:40	B3D0149	BC	3550B
delta-Hexachlorocyclohexane (Delta-BHC)	ND		1	0.0880	1.00	ug/kg	04/12/23 12:54	04/12/23 17:40	B3D0149	BC	3550B
4,4'-DDD (DDD)	ND		1	0.0980	1.00	ug/kg	04/12/23 12:54	04/12/23 17:40	B3D0149	BC	3550B
4,4'-DDE (DDE)	ND		1	0.0930	1.00	ug/kg	04/12/23 12:54	04/12/23 17:40	B3D0149	BC	3550B
4,4'-DDT (DDT)	**0.268**	J	1	0.235	1.00	ug/kg	04/12/23 12:54	04/12/23 17:40	B3D0149	BC	3550B
Dieldrin	**0.135**	J	1	0.0950	1.00	ug/kg	04/12/23 12:54	04/12/23 17:40	B3D0149	BC	3550B
Endrin	ND		1	0.106	1.00	ug/kg	04/12/23 12:54	04/12/23 17:40	B3D0149	BC	3550B
Endrin aldehyde	ND		1	0.117	1.00	ug/kg	04/12/23 12:54	04/12/23 17:40	B3D0149	BC	3550B
Endrin ketone	ND		1	0.122	1.00	ug/kg	04/12/23 12:54	04/12/23 17:40	B3D0149	BC	3550B
Endosulfan 1	ND		1	0.115	1.00	ug/kg	04/12/23 12:54	04/12/23 17:40	B3D0149	BC	3550B
Endosulfan 11	ND		1	0.177	1.00	ug/kg	04/12/23 12:54	04/12/23 17:40	B3D0149	BC	3550B
Endosulfan sulfate	ND		1	0.0470	1.00	ug/kg	04/12/23 12:54	04/12/23 17:40	B3D0149	BC	3550B
Heptachlor	ND		1	0.206	1.00	ug/kg	04/12/23 12:54	04/12/23 17:40	B3D0149	BC	3550B
Heptachlor epoxide	ND		1	0.101	1.00	ug/kg	04/12/23 12:54	04/12/23 17:40	B3D0149	BC	3550B
Methoxychlor	ND		1	0.310	1.00	ug/kg	04/12/23 12:54	04/12/23 17:40	B3D0149	BC	3550B
Toxaphene	ND		1	4.10	50.0	ug/kg	04/12/23 12:54	04/12/23 17:40	B3D0149	BC	3550B
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*73.1%*				*30-150*		04/12/23 12:54	*04/12/23 17:40*	B3D0149	*BC*	3550B
Surrogate: Tetrachloro-m-xylene	*64.8%*				*30-150*		04/12/23 12:54	*04/12/23 17:40*	B3D0149	*BC*	3550B
PCBs											
Method: EPA 8082											
Aroclor-1016 (PCB-1016)	ND		1	11.6	25.0	ug/kg	04/12/23 11:05	04/12/23 18:09	B3D0140	BC	3550B
Aroclor-1221 (PCB-1221)	ND		1	8.11	25.0	ug/kg	04/12/23 11:05	04/12/23 18:09	B3D0140	BC	3550B

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100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51	

Analytical Results

Client ID: SB-6-D0.5

Lab ID: BED0016-13 (Soil) **Sampled: 04/05/23 9:25**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
PCBs (Continued)											
Aroclor-1232 (PCB-1232)	ND		1	15.2	25.0	ug/kg	04/12/23 11:05	04/12/23 18:09	B3D0140	BC	3550B
Aroclor-1242 (PCB-1242)	ND		1	5.25	25.0	ug/kg	04/12/23 11:05	04/12/23 18:09	B3D0140	BC	3550B
Aroclor-1248 (PCB-1248)	ND		1	11.0	25.0	ug/kg	04/12/23 11:05	04/12/23 18:09	B3D0140	BC	3550B
Aroclor-1254 (PCB-1254)	ND		1	11.9	25.0	ug/kg	04/12/23 11:05	04/12/23 18:09	B3D0140	BC	3550B
Aroclor-1260 (PCB-1260)	ND		1	6.02	25.0	ug/kg	04/12/23 11:05	04/12/23 18:09	B3D0140	BC	3550B
Aroclor-1262 (PCB-1262)	ND		1	20.0	50.0	ug/kg	04/12/23 11:05	04/12/23 18:09	B3D0140	BC	3550B
Aroclor-1268 (PCB-1268)	ND		1	20.0	50.0	ug/kg	04/12/23 11:05	04/12/23 18:09	B3D0140	BC	3550B
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*98.5%*				*50-150*		04/12/23 11:05	*04/12/23 18:09*	B3D0140	*BC*	3550B
Surrogate: Tetrachloro-m-xylene	*72.3%*				*50-150*		04/12/23 11:05	*04/12/23 18:09*	B3D0140	*BC*	3550B

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51	

Analytical Results

Client ID: SB-40-D0.5
Lab ID: BED0016-16 (Soil) **Sampled: 04/05/23 7:17**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Lead	**10.1**		1	0.550	5.00	mg/kg	04/10/23 07:54	04/13/23 13:58	B3D0081	DT	3050B
Organochlorine Pesticides											
Method: EPA 8081A											
Aldrin	ND	D	2	0.180	2.00	ug/kg	04/12/23 12:54	04/12/23 17:57	B3D0149	BC	3550B
alpha-Chlordane	ND	D	2	0.242	2.00	ug/kg	04/12/23 12:54	04/12/23 17:57	B3D0149	BC	3550B
gamma-Chlordane	ND	D	2	0.228	2.00	ug/kg	04/12/23 12:54	04/12/23 17:57	B3D0149	BC	3550B
Chlordane (Total)	ND	D	2	2.00	4.00	ug/kg	04/12/23 12:54	04/12/23 17:57	B3D0149	BC	3550B
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	ND	D	2	0.124	2.00	ug/kg	04/12/23 12:54	04/12/23 17:57	B3D0149	BC	3550B
alpha-Hexachlorocyclohexane (Alpha-BHC)	ND	D	2	0.142	2.00	ug/kg	04/12/23 12:54	04/12/23 17:57	B3D0149	BC	3550B
beta-Hexachlorocyclohexane (Betta-BHC)	ND	D	2	0.434	2.00	ug/kg	04/12/23 12:54	04/12/23 17:57	B3D0149	BC	3550B
delta-Hexachlorocyclohexane (Delta-BHC)	ND	D	2	0.176	2.00	ug/kg	04/12/23 12:54	04/12/23 17:57	B3D0149	BC	3550B
4,4'-DDD (DDD)	ND	D	2	0.196	2.00	ug/kg	04/12/23 12:54	04/12/23 17:57	B3D0149	BC	3550B
4,4'-DDE (DDE)	**1.59**	DIL, J	2	0.186	2.00	ug/kg	04/12/23 12:54	04/12/23 17:57	B3D0149	BC	3550B
4,4'-DDT (DDT)	**3.55**	DIL	2	0.470	2.00	ug/kg	04/12/23 12:54	04/12/23 17:57	B3D0149	BC	3550B
Dieldrin	ND	D	2	0.190	2.00	ug/kg	04/12/23 12:54	04/12/23 17:57	B3D0149	BC	3550B
Endrin	ND	D	2	0.212	2.00	ug/kg	04/12/23 12:54	04/12/23 17:57	B3D0149	BC	3550B
Endrin aldehyde	ND	D	2	0.234	2.00	ug/kg	04/12/23 12:54	04/12/23 17:57	B3D0149	BC	3550B
Endrin ketone	ND	D	2	0.244	2.00	ug/kg	04/12/23 12:54	04/12/23 17:57	B3D0149	BC	3550B
Endosulfan 1	ND	D	2	0.230	2.00	ug/kg	04/12/23 12:54	04/12/23 17:57	B3D0149	BC	3550B
Endosulfan 11	ND	D	2	0.354	2.00	ug/kg	04/12/23 12:54	04/12/23 17:57	B3D0149	BC	3550B
Endosulfan sulfate	ND	D	2	0.0940	2.00	ug/kg	04/12/23 12:54	04/12/23 17:57	B3D0149	BC	3550B
Heptachlor	ND	D	2	0.412	2.00	ug/kg	04/12/23 12:54	04/12/23 17:57	B3D0149	BC	3550B
Heptachlor epoxide	ND	D	2	0.202	2.00	ug/kg	04/12/23 12:54	04/12/23 17:57	B3D0149	BC	3550B
Methoxychlor	ND	D	2	0.620	2.00	ug/kg	04/12/23 12:54	04/12/23 17:57	B3D0149	BC	3550B
Toxaphene	ND	D	2	8.20	100	ug/kg	04/12/23 12:54	04/12/23 17:57	B3D0149	BC	3550B
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*53.0%*				*30-150*		04/12/23 12:54	*04/12/23 17:57*	B3D0149	*BC*	3550B
Surrogate: Tetrachloro-m-xylene	*61.8%*				*30-150*		04/12/23 12:54	*04/12/23 17:57*	B3D0149	*BC*	3550B

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51	

Analytical Results

Client ID: **SB-40-D0.5**
Lab ID: **BED0016-16 (Soil)** **Sampled:** **04/05/23 7:17**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method

Organochlorine Pesticides (Continued)

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51	

Analytical Results

Client ID: SB-38-D0.5
Lab ID: BED0016-19 (Soil) **Sampled: 04/05/23 8:27**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Lead	**6.70**		1	0.550	5.00	mg/kg	04/10/23 07:54	04/13/23 14:01	B3D0081	DT	3050B
Organochlorine Pesticides											
Method: EPA 8081A											
Aldrin	ND		1	0.0900	1.00	ug/kg	04/12/23 12:54	04/13/23 09:04	B3D0149	BC	3550B
alpha-Chlordane	ND		1	0.121	1.00	ug/kg	04/12/23 12:54	04/13/23 09:04	B3D0149	BC	3550B
gamma-Chlordane	ND		1	0.114	1.00	ug/kg	04/12/23 12:54	04/13/23 09:04	B3D0149	BC	3550B
Chlordane (Total)	ND		1	1.00	2.00	ug/kg	04/12/23 12:54	04/13/23 09:04	B3D0149	BC	3550B
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	ND		1	0.0620	1.00	ug/kg	04/12/23 12:54	04/13/23 09:04	B3D0149	BC	3550B
alpha-Hexachlorocyclohexane (Alpha-BHC)	ND		1	0.0710	1.00	ug/kg	04/12/23 12:54	04/13/23 09:04	B3D0149	BC	3550B
beta-Hexachlorocyclohexane (Betta-BHC)	ND		1	0.217	1.00	ug/kg	04/12/23 12:54	04/13/23 09:04	B3D0149	BC	3550B
delta-Hexachlorocyclohexane (Delta-BHC)	ND		1	0.0880	1.00	ug/kg	04/12/23 12:54	04/13/23 09:04	B3D0149	BC	3550B
4,4'-DDD (DDD)	ND		1	0.0980	1.00	ug/kg	04/12/23 12:54	04/13/23 09:04	B3D0149	BC	3550B
4,4'-DDE (DDE)	**0.874**	J	1	0.0930	1.00	ug/kg	04/12/23 12:54	04/13/23 09:04	B3D0149	BC	3550B
4,4'-DDT (DDT)	ND		1	0.235	1.00	ug/kg	04/12/23 12:54	04/13/23 09:04	B3D0149	BC	3550B
Dieldrin	ND		1	0.0950	1.00	ug/kg	04/12/23 12:54	04/13/23 09:04	B3D0149	BC	3550B
Endrin	ND		1	0.106	1.00	ug/kg	04/12/23 12:54	04/13/23 09:04	B3D0149	BC	3550B
Endrin aldehyde	ND		1	0.117	1.00	ug/kg	04/12/23 12:54	04/13/23 09:04	B3D0149	BC	3550B
Endrin ketone	ND		1	0.122	1.00	ug/kg	04/12/23 12:54	04/13/23 09:04	B3D0149	BC	3550B
Endosulfan 1	ND		1	0.115	1.00	ug/kg	04/12/23 12:54	04/13/23 09:04	B3D0149	BC	3550B
Endosulfan 11	ND		1	0.177	1.00	ug/kg	04/12/23 12:54	04/13/23 09:04	B3D0149	BC	3550B
Endosulfan sulfate	ND		1	0.0470	1.00	ug/kg	04/12/23 12:54	04/13/23 09:04	B3D0149	BC	3550B
Heptachlor	ND		1	0.206	1.00	ug/kg	04/12/23 12:54	04/13/23 09:04	B3D0149	BC	3550B
Heptachlor epoxide	ND		1	0.101	1.00	ug/kg	04/12/23 12:54	04/13/23 09:04	B3D0149	BC	3550B
Methoxychlor	ND		1	0.310	1.00	ug/kg	04/12/23 12:54	04/13/23 09:04	B3D0149	BC	3550B
Toxaphene	ND		1	4.10	50.0	ug/kg	04/12/23 12:54	04/13/23 09:04	B3D0149	BC	3550B
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*91.2%*				*30-150*		04/12/23 12:54	*04/13/23 09:04*	B3D0149	*BC*	3550B
Surrogate: Tetrachloro-m-xylene	*65.0%*				*30-150*		04/12/23 12:54	*04/13/23 09:04*	B3D0149	*BC*	3550B

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51	

Analytical Results

Client ID: **SB-38-D0.5**
Lab ID: **BED0016-19 (Soil)** **Sampled:** **04/05/23 8:27**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method

Organochlorine Pesticides (Continued)

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51	

Analytical Results

Client ID: SB-38-D0.5-Dup
Lab ID: BED0016-20 (Soil) **Sampled: 04/05/23 8:32**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Lead	**6.87**		1	0.550	5.00	mg/kg	04/10/23 07:54	04/13/23 14:03	B3D0081	DT	3050B
Organochlorine Pesticides											
Method: EPA 8081A											
Aldrin	ND		1	0.0900	1.00	ug/kg	04/12/23 12:54	04/12/23 18:31	B3D0149	BC	3550B
alpha-Chlordane	ND		1	0.121	1.00	ug/kg	04/12/23 12:54	04/12/23 18:31	B3D0149	BC	3550B
gamma-Chlordane	ND		1	0.114	1.00	ug/kg	04/12/23 12:54	04/12/23 18:31	B3D0149	BC	3550B
Chlordane (Total)	ND		1	1.00	2.00	ug/kg	04/12/23 12:54	04/12/23 18:31	B3D0149	BC	3550B
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	ND		1	0.0620	1.00	ug/kg	04/12/23 12:54	04/12/23 18:31	B3D0149	BC	3550B
alpha-Hexachlorocyclohexane (Alpha-BHC)	ND		1	0.0710	1.00	ug/kg	04/12/23 12:54	04/12/23 18:31	B3D0149	BC	3550B
beta-Hexachlorocyclohexane (Betta-BHC)	ND		1	0.217	1.00	ug/kg	04/12/23 12:54	04/12/23 18:31	B3D0149	BC	3550B
delta-Hexachlorocyclohexane (Delta-BHC)	ND		1	0.0880	1.00	ug/kg	04/12/23 12:54	04/12/23 18:31	B3D0149	BC	3550B
4,4'-DDD (DDD)	ND		1	0.0980	1.00	ug/kg	04/12/23 12:54	04/12/23 18:31	B3D0149	BC	3550B
4,4'-DDE (DDE)	**0.317**	J	1	0.0930	1.00	ug/kg	04/12/23 12:54	04/12/23 18:31	B3D0149	BC	3550B
4,4'-DDT (DDT)	ND		1	0.235	1.00	ug/kg	04/12/23 12:54	04/12/23 18:31	B3D0149	BC	3550B
Dieldrin	ND		1	0.0950	1.00	ug/kg	04/12/23 12:54	04/12/23 18:31	B3D0149	BC	3550B
Endrin	ND		1	0.106	1.00	ug/kg	04/12/23 12:54	04/12/23 18:31	B3D0149	BC	3550B
Endrin aldehyde	ND		1	0.117	1.00	ug/kg	04/12/23 12:54	04/12/23 18:31	B3D0149	BC	3550B
Endrin ketone	ND		1	0.122	1.00	ug/kg	04/12/23 12:54	04/12/23 18:31	B3D0149	BC	3550B
Endosulfan 1	ND		1	0.115	1.00	ug/kg	04/12/23 12:54	04/12/23 18:31	B3D0149	BC	3550B
Endosulfan 11	ND		1	0.177	1.00	ug/kg	04/12/23 12:54	04/12/23 18:31	B3D0149	BC	3550B
Endosulfan sulfate	ND		1	0.0470	1.00	ug/kg	04/12/23 12:54	04/12/23 18:31	B3D0149	BC	3550B
Heptachlor	ND		1	0.206	1.00	ug/kg	04/12/23 12:54	04/12/23 18:31	B3D0149	BC	3550B
Heptachlor epoxide	ND		1	0.101	1.00	ug/kg	04/12/23 12:54	04/12/23 18:31	B3D0149	BC	3550B
Methoxychlor	ND		1	0.310	1.00	ug/kg	04/12/23 12:54	04/12/23 18:31	B3D0149	BC	3550B
Toxaphene	ND		1	4.10	50.0	ug/kg	04/12/23 12:54	04/12/23 18:31	B3D0149	BC	3550B
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*63.0%*				*30-150*		04/12/23 12:54	*04/12/23 18:31*	B3D0149	*BC*	3550B
Surrogate: Tetrachloro-m-xylene	*58.0%*				*30-150*		04/12/23 12:54	*04/12/23 18:31*	B3D0149	*BC*	3550B

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51	

Analytical Results

Client ID: **SB-38-D0.5-Dup**
Lab ID: **BED0016-20 (Soil)** **Sampled:** **04/05/23 8:32**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method

Organochlorine Pesticides (Continued)

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51	

Analytical Results

Client ID: SB-55-D0.5
Lab ID: BED0016-23 (Soil) **Sampled: 04/05/23 9:48**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Lead	**23.1**		1	0.550	5.00	mg/kg	04/10/23 07:54	04/13/23 14:06	B3D0081	DT	3050B
Organochlorine Pesticides											
Method: EPA 8081A											
Aldrin	ND		1	0.0900	1.00	ug/kg	04/12/23 12:54	04/12/23 18:48	B3D0149	BC	3550B
alpha-Chlordane	**3.70**		1	0.121	1.00	ug/kg	04/12/23 12:54	04/12/23 18:48	B3D0149	BC	3550B
gamma-Chlordane	**2.34**		1	0.114	1.00	ug/kg	04/12/23 12:54	04/12/23 18:48	B3D0149	BC	3550B
Chlordane (Total)	**6.04**		1	1.00	2.00	ug/kg	04/12/23 12:54	04/12/23 18:48	B3D0149	BC	3550B
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	ND		1	0.0620	1.00	ug/kg	04/12/23 12:54	04/12/23 18:48	B3D0149	BC	3550B
alpha-Hexachlorocyclohexane (Alpha-BHC)	ND		1	0.0710	1.00	ug/kg	04/12/23 12:54	04/12/23 18:48	B3D0149	BC	3550B
beta-Hexachlorocyclohexane (Betta-BHC)	ND		1	0.217	1.00	ug/kg	04/12/23 12:54	04/12/23 18:48	B3D0149	BC	3550B
delta-Hexachlorocyclohexane (Delta-BHC)	ND		1	0.0880	1.00	ug/kg	04/12/23 12:54	04/12/23 18:48	B3D0149	BC	3550B
4,4'-DDD (DDD)	**0.332**	J	1	0.0980	1.00	ug/kg	04/12/23 12:54	04/12/23 18:48	B3D0149	BC	3550B
4,4'-DDE (DDE)	**6.59**		1	0.0930	1.00	ug/kg	04/12/23 12:54	04/12/23 18:48	B3D0149	BC	3550B
4,4'-DDT (DDT)	**5.67**		1	0.235	1.00	ug/kg	04/12/23 12:54	04/12/23 18:48	B3D0149	BC	3550B
Dieldrin	ND		1	0.0950	1.00	ug/kg	04/12/23 12:54	04/12/23 18:48	B3D0149	BC	3550B
Endrin	ND		1	0.106	1.00	ug/kg	04/12/23 12:54	04/12/23 18:48	B3D0149	BC	3550B
Endrin aldehyde	ND		1	0.117	1.00	ug/kg	04/12/23 12:54	04/12/23 18:48	B3D0149	BC	3550B
Endrin ketone	ND		1	0.122	1.00	ug/kg	04/12/23 12:54	04/12/23 18:48	B3D0149	BC	3550B
Endosulfan 1	ND		1	0.115	1.00	ug/kg	04/12/23 12:54	04/12/23 18:48	B3D0149	BC	3550B
Endosulfan 11	ND		1	0.177	1.00	ug/kg	04/12/23 12:54	04/12/23 18:48	B3D0149	BC	3550B
Endosulfan sulfate	ND		1	0.0470	1.00	ug/kg	04/12/23 12:54	04/12/23 18:48	B3D0149	BC	3550B
Heptachlor	ND		1	0.206	1.00	ug/kg	04/12/23 12:54	04/12/23 18:48	B3D0149	BC	3550B
Heptachlor epoxide	**0.208**	J	1	0.101	1.00	ug/kg	04/12/23 12:54	04/12/23 18:48	B3D0149	BC	3550B
Methoxychlor	ND		1	0.310	1.00	ug/kg	04/12/23 12:54	04/12/23 18:48	B3D0149	BC	3550B
Toxaphene	ND		1	4.10	50.0	ug/kg	04/12/23 12:54	04/12/23 18:48	B3D0149	BC	3550B
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*76.6%*				*30-150*		04/12/23 12:54	*04/12/23 18:48*	B3D0149	*BC*	3550B
Surrogate: Tetrachloro-m-xylene	*70.2%*				*30-150*		04/12/23 12:54	*04/12/23 18:48*	B3D0149	*BC*	3550B

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A KYZER LABS COMPANY

Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51	

Analytical Results

Client ID: **SB-55-D0.5**
Lab ID: **BED0016-23 (Soil)** **Sampled:** **04/05/23 9:48**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method

Organochlorine Pesticides (Continued)

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51	

Analytical Results

Client ID: SB-7-D0.5

Lab ID: BED0016-26 (Soil) **Sampled: 04/05/23 10:02**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Lead	**13.7**		1	0.550	5.00	mg/kg	04/10/23 07:54	04/13/23 14:09	B3D0081	DT	3050B
Organochlorine Pesticides											
Method: EPA 8081A											
Aldrin	ND		1	0.0900	1.00	ug/kg	04/12/23 12:54	04/12/23 19:22	B3D0149	BC	3550B
alpha-Chlordane	**0.680**	J	1	0.121	1.00	ug/kg	04/12/23 12:54	04/12/23 19:22	B3D0149	BC	3550B
gamma-Chlordane	**0.488**	J	1	0.114	1.00	ug/kg	04/12/23 12:54	04/12/23 19:22	B3D0149	BC	3550B
Chlordane (Total)	**1.17**	J	1	1.00	2.00	ug/kg	04/12/23 12:54	04/12/23 19:22	B3D0149	BC	3550B
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	ND		1	0.0620	1.00	ug/kg	04/12/23 12:54	04/12/23 19:22	B3D0149	BC	3550B
alpha-Hexachlorocyclohexane (Alpha-BHC)	ND		1	0.0710	1.00	ug/kg	04/12/23 12:54	04/12/23 19:22	B3D0149	BC	3550B
beta-Hexachlorocyclohexane (Betta-BHC)	ND		1	0.217	1.00	ug/kg	04/12/23 12:54	04/12/23 19:22	B3D0149	BC	3550B
delta-Hexachlorocyclohexane (Delta-BHC)	ND		1	0.0880	1.00	ug/kg	04/12/23 12:54	04/12/23 19:22	B3D0149	BC	3550B
4,4'-DDD (DDD)	ND		1	0.0980	1.00	ug/kg	04/12/23 12:54	04/12/23 19:22	B3D0149	BC	3550B
4,4'-DDE (DDE)	**1.22**		1	0.0930	1.00	ug/kg	04/12/23 12:54	04/12/23 19:22	B3D0149	BC	3550B
4,4'-DDT (DDT)	**0.967**	J	1	0.235	1.00	ug/kg	04/12/23 12:54	04/12/23 19:22	B3D0149	BC	3550B
Dieldrin	ND		1	0.0950	1.00	ug/kg	04/12/23 12:54	04/12/23 19:22	B3D0149	BC	3550B
Endrin	ND		1	0.106	1.00	ug/kg	04/12/23 12:54	04/12/23 19:22	B3D0149	BC	3550B
Endrin aldehyde	ND		1	0.117	1.00	ug/kg	04/12/23 12:54	04/12/23 19:22	B3D0149	BC	3550B
Endrin ketone	ND		1	0.122	1.00	ug/kg	04/12/23 12:54	04/12/23 19:22	B3D0149	BC	3550B
Endosulfan 1	ND		1	0.115	1.00	ug/kg	04/12/23 12:54	04/12/23 19:22	B3D0149	BC	3550B
Endosulfan 11	ND		1	0.177	1.00	ug/kg	04/12/23 12:54	04/12/23 19:22	B3D0149	BC	3550B
Endosulfan sulfate	ND		1	0.0470	1.00	ug/kg	04/12/23 12:54	04/12/23 19:22	B3D0149	BC	3550B
Heptachlor	ND		1	0.206	1.00	ug/kg	04/12/23 12:54	04/12/23 19:22	B3D0149	BC	3550B
Heptachlor epoxide	ND		1	0.101	1.00	ug/kg	04/12/23 12:54	04/12/23 19:22	B3D0149	BC	3550B
Methoxychlor	ND		1	0.310	1.00	ug/kg	04/12/23 12:54	04/12/23 19:22	B3D0149	BC	3550B
Toxaphene	ND		1	4.10	50.0	ug/kg	04/12/23 12:54	04/12/23 19:22	B3D0149	BC	3550B
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*77.8%*				*30-150*		04/12/23 12:54	*04/12/23 19:22*	B3D0149	*BC*	3550B
Surrogate: Tetrachloro-m-xylene	*66.7%*				*30-150*		04/12/23 12:54	*04/12/23 19:22*	B3D0149	*BC*	3550B

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51	

Analytical Results

Client ID: SB-7-D0.5
Lab ID: BED0016-26 (Soil) **Sampled:** 04/05/23 10:02

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method

Organochlorine Pesticides (Continued)

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51	

Analytical Results

Client ID: SB-7-D0.5-Dup
Lab ID: BED0016-27 (Soil) **Sampled: 04/05/23 10:07**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Lead	**15.7**		1	0.550	5.00	mg/kg	04/10/23 07:54	04/13/23 14:12	B3D0081	DT	3050B
Organochlorine Pesticides											
Method: EPA 8081A											
Aldrin	ND		1	0.0900	1.00	ug/kg	04/12/23 12:54	04/12/23 19:39	B3D0149	BC	3550B
alpha-Chlordane	**0.840**	J	1	0.121	1.00	ug/kg	04/12/23 12:54	04/12/23 19:39	B3D0149	BC	3550B
gamma-Chlordane	**0.466**	J	1	0.114	1.00	ug/kg	04/12/23 12:54	04/12/23 19:39	B3D0149	BC	3550B
Chlordane (Total)	**1.31**	J	1	1.00	2.00	ug/kg	04/12/23 12:54	04/12/23 19:39	B3D0149	BC	3550B
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	ND		1	0.0620	1.00	ug/kg	04/12/23 12:54	04/12/23 19:39	B3D0149	BC	3550B
alpha-Hexachlorocyclohexane (Alpha-BHC)	ND		1	0.0710	1.00	ug/kg	04/12/23 12:54	04/12/23 19:39	B3D0149	BC	3550B
beta-Hexachlorocyclohexane (Betta-BHC)	ND		1	0.217	1.00	ug/kg	04/12/23 12:54	04/12/23 19:39	B3D0149	BC	3550B
delta-Hexachlorocyclohexane (Delta-BHC)	ND		1	0.0880	1.00	ug/kg	04/12/23 12:54	04/12/23 19:39	B3D0149	BC	3550B
4,4'-DDD (DDD)	ND		1	0.0980	1.00	ug/kg	04/12/23 12:54	04/12/23 19:39	B3D0149	BC	3550B
4,4'-DDE (DDE)	**1.44**		1	0.0930	1.00	ug/kg	04/12/23 12:54	04/12/23 19:39	B3D0149	BC	3550B
4,4'-DDT (DDT)	**0.730**	J	1	0.235	1.00	ug/kg	04/12/23 12:54	04/12/23 19:39	B3D0149	BC	3550B
Dieldrin	ND		1	0.0950	1.00	ug/kg	04/12/23 12:54	04/12/23 19:39	B3D0149	BC	3550B
Endrin	**0.128**	J	1	0.106	1.00	ug/kg	04/12/23 12:54	04/12/23 19:39	B3D0149	BC	3550B
Endrin aldehyde	ND		1	0.117	1.00	ug/kg	04/12/23 12:54	04/12/23 19:39	B3D0149	BC	3550B
Endrin ketone	ND		1	0.122	1.00	ug/kg	04/12/23 12:54	04/12/23 19:39	B3D0149	BC	3550B
Endosulfan 1	ND		1	0.115	1.00	ug/kg	04/12/23 12:54	04/12/23 19:39	B3D0149	BC	3550B
Endosulfan 11	ND		1	0.177	1.00	ug/kg	04/12/23 12:54	04/12/23 19:39	B3D0149	BC	3550B
Endosulfan sulfate	ND		1	0.0470	1.00	ug/kg	04/12/23 12:54	04/12/23 19:39	B3D0149	BC	3550B
Heptachlor	ND		1	0.206	1.00	ug/kg	04/12/23 12:54	04/12/23 19:39	B3D0149	BC	3550B
Heptachlor epoxide	ND		1	0.101	1.00	ug/kg	04/12/23 12:54	04/12/23 19:39	B3D0149	BC	3550B
Methoxychlor	ND		1	0.310	1.00	ug/kg	04/12/23 12:54	04/12/23 19:39	B3D0149	BC	3550B
Toxaphene	ND		1	4.10	50.0	ug/kg	04/12/23 12:54	04/12/23 19:39	B3D0149	BC	3550B
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*78.6%*				*30-150*		04/12/23 12:54	*04/12/23 19:39*	B3D0149	*BC*	3550B
Surrogate: Tetrachloro-m-xylene	*65.4%*				*30-150*		04/12/23 12:54	*04/12/23 19:39*	B3D0149	*BC*	3550B

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51	

Analytical Results

Client ID: SB-7-D0.5-Dup
Lab ID: BED0016-27 (Soil) **Sampled:** 04/05/23 10:07

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method

Organochlorine Pesticides (Continued)

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51	

Analytical Results

Client ID: SB-13-D0.5
Lab ID: BED0016-30 (Soil) **Sampled: 04/05/23 10:41**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Lead	**21.0**		1	0.550	5.00	mg/kg	04/10/23 07:54	04/13/23 14:15	B3D0081	DT	3050B
Organochlorine Pesticides											
Method: EPA 8081A											
Aldrin	ND		1	0.0900	1.00	ug/kg	04/12/23 12:54	04/12/23 19:56	B3D0149	BC	3550B
alpha-Chlordane	ND		1	0.121	1.00	ug/kg	04/12/23 12:54	04/12/23 19:56	B3D0149	BC	3550B
gamma-Chlordane	ND		1	0.114	1.00	ug/kg	04/12/23 12:54	04/12/23 19:56	B3D0149	BC	3550B
Chlordane (Total)	ND		1	1.00	2.00	ug/kg	04/12/23 12:54	04/12/23 19:56	B3D0149	BC	3550B
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	ND		1	0.0620	1.00	ug/kg	04/12/23 12:54	04/12/23 19:56	B3D0149	BC	3550B
alpha-Hexachlorocyclohexane (Alpha-BHC)	ND		1	0.0710	1.00	ug/kg	04/12/23 12:54	04/12/23 19:56	B3D0149	BC	3550B
beta-Hexachlorocyclohexane (Betta-BHC)	ND		1	0.217	1.00	ug/kg	04/12/23 12:54	04/12/23 19:56	B3D0149	BC	3550B
delta-Hexachlorocyclohexane (Delta-BHC)	ND		1	0.0880	1.00	ug/kg	04/12/23 12:54	04/12/23 19:56	B3D0149	BC	3550B
4,4'-DDD (DDD)	ND		1	0.0980	1.00	ug/kg	04/12/23 12:54	04/12/23 19:56	B3D0149	BC	3550B
4,4'-DDE (DDE)	**0.170**	J	1	0.0930	1.00	ug/kg	04/12/23 12:54	04/12/23 19:56	B3D0149	BC	3550B
4,4'-DDT (DDT)	**0.293**	J	1	0.235	1.00	ug/kg	04/12/23 12:54	04/12/23 19:56	B3D0149	BC	3550B
Dieldrin	**0.320**	J	1	0.0950	1.00	ug/kg	04/12/23 12:54	04/12/23 19:56	B3D0149	BC	3550B
Endrin	ND		1	0.106	1.00	ug/kg	04/12/23 12:54	04/12/23 19:56	B3D0149	BC	3550B
Endrin aldehyde	ND		1	0.117	1.00	ug/kg	04/12/23 12:54	04/12/23 19:56	B3D0149	BC	3550B
Endrin ketone	ND		1	0.122	1.00	ug/kg	04/12/23 12:54	04/12/23 19:56	B3D0149	BC	3550B
Endosulfan 1	ND		1	0.115	1.00	ug/kg	04/12/23 12:54	04/12/23 19:56	B3D0149	BC	3550B
Endosulfan 11	ND		1	0.177	1.00	ug/kg	04/12/23 12:54	04/12/23 19:56	B3D0149	BC	3550B
Endosulfan sulfate	ND		1	0.0470	1.00	ug/kg	04/12/23 12:54	04/12/23 19:56	B3D0149	BC	3550B
Heptachlor	ND		1	0.206	1.00	ug/kg	04/12/23 12:54	04/12/23 19:56	B3D0149	BC	3550B
Heptachlor epoxide	ND		1	0.101	1.00	ug/kg	04/12/23 12:54	04/12/23 19:56	B3D0149	BC	3550B
Methoxychlor	ND		1	0.310	1.00	ug/kg	04/12/23 12:54	04/12/23 19:56	B3D0149	BC	3550B
Toxaphene	ND		1	4.10	50.0	ug/kg	04/12/23 12:54	04/12/23 19:56	B3D0149	BC	3550B
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*66.0%*				*30-150*		04/12/23 12:54	*04/12/23 19:56*	B3D0149	*BC*	3550B
Surrogate: Tetrachloro-m-xylene	*56.7%*				*30-150*		04/12/23 12:54	*04/12/23 19:56*	B3D0149	*BC*	3550B

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51	

Analytical Results

Client ID: **SB-13-D0.5**
Lab ID: **BED0016-30 (Soil)** **Sampled:** **04/05/23 10:41**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method

Organochlorine Pesticides (Continued)

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51	

Analytical Results

Client ID: SB-11-D0.5
Lab ID: BED0016-31 (Soil) **Sampled: 04/05/23 11:00**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Cadmium	ND		1	1.29	2.48	mg/kg	04/10/23 07:54	04/13/23 14:24	B3D0081	DT	3050B
Lead	**6.61**		1	0.550	5.00	mg/kg	04/10/23 07:54	04/13/23 14:24	B3D0081	DT	3050B
Nickel	**25.5**		1	2.48	4.95	mg/kg	04/10/23 07:54	04/13/23 14:24	B3D0081	DT	3050B
Method: EPA 7471A											
Mercury	**0.0827**	J	1	0.0180	0.170	mg/kg	04/07/23 12:01	04/10/23 15:42	B3D0083	LE	7471A
Polynuclear Aromatic Hydrocarbons											
Method: EPA 8270C-SIM											
2-Methylnaphthalene	ND		1	0.00199	0.0124	mg/kg	04/12/23 10:43	04/12/23 16:42	B3D0135	ATS	3550B
Acenaphthene	ND		1	0.0108	0.0249	mg/kg	04/12/23 10:43	04/12/23 16:42	B3D0135	ATS	3550B
Acenaphthylene	ND		1	0.00932	0.0249	mg/kg	04/12/23 10:43	04/12/23 16:42	B3D0135	ATS	3550B
Anthracene	ND		1	0.0112	0.0249	mg/kg	04/12/23 10:43	04/12/23 16:42	B3D0135	ATS	3550B
Benzo(a)anthracene	ND		1	0.00892	0.0249	mg/kg	04/12/23 10:43	04/12/23 16:42	B3D0135	ATS	3550B
Benzo(a)pyrene	ND		1	0.0121	0.0249	mg/kg	04/12/23 10:43	04/12/23 16:42	B3D0135	ATS	3550B
Benzo(b)fluoranthene	ND		1	0.00760	0.0249	mg/kg	04/12/23 10:43	04/12/23 16:42	B3D0135	ATS	3550B
Benzo(g,h,i)perylene	ND		1	0.0132	0.0249	mg/kg	04/12/23 10:43	04/12/23 16:42	B3D0135	ATS	3550B
Benzo(k)fluoranthene	ND		1	0.0119	0.0249	mg/kg	04/12/23 10:43	04/12/23 16:42	B3D0135	ATS	3550B
Chrysene	ND		1	0.00847	0.0249	mg/kg	04/12/23 10:43	04/12/23 16:42	B3D0135	ATS	3550B
Dibenzo(a,h)anthracene	ND		1	0.0167	0.0249	mg/kg	04/12/23 10:43	04/12/23 16:42	B3D0135	ATS	3550B
Fluoranthene	ND		1	0.0121	0.0249	mg/kg	04/12/23 10:43	04/12/23 16:42	B3D0135	ATS	3550B
Fluorene	ND		1	0.0115	0.0249	mg/kg	04/12/23 10:43	04/12/23 16:42	B3D0135	ATS	3550B
Indeno(1,2,3-cd)pyrene	ND		1	0.0170	0.0249	mg/kg	04/12/23 10:43	04/12/23 16:42	B3D0135	ATS	3550B
Naphthalene	ND		1	0.00931	0.0249	mg/kg	04/12/23 10:43	04/12/23 16:42	B3D0135	ATS	3550B
Phenanthrene	ND		1	0.0103	0.0249	mg/kg	04/12/23 10:43	04/12/23 16:42	B3D0135	ATS	3550B
Pyrene	ND		1	0.00976	0.0249	mg/kg	04/12/23 10:43	04/12/23 16:42	B3D0135	ATS	3550B
	Recovery				Acceptance Criteria						
Surrogate: p-Terphenyl-D14	*51.5%*				*40-130*		04/12/23 10:43	*04/12/23 16:42*	B3D0135	*ATS*	3550B
Organochlorine Pesticides											

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51	

Analytical Results

Client ID: SB-11-D0.5
Lab ID: BED0016-31 (Soil) **Sampled:** 04/05/23 11:00

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Organochlorine Pesticides (Continued)											
Method: EPA 8081A											
Aldrin	ND		1	0.0900	1.00	ug/kg	04/12/23 12:54	04/12/23 20:13	B3D0149	BC	3550B
alpha-Chlordane	ND		1	0.121	1.00	ug/kg	04/12/23 12:54	04/12/23 20:13	B3D0149	BC	3550B
gamma-Chlordane	ND		1	0.114	1.00	ug/kg	04/12/23 12:54	04/12/23 20:13	B3D0149	BC	3550B
Chlordane (Total)	ND		1	1.00	2.00	ug/kg	04/12/23 12:54	04/12/23 20:13	B3D0149	BC	3550B
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	ND		1	0.0620	1.00	ug/kg	04/12/23 12:54	04/12/23 20:13	B3D0149	BC	3550B
alpha-Hexachlorocyclohexane (Alpha-BHC)	ND		1	0.0710	1.00	ug/kg	04/12/23 12:54	04/12/23 20:13	B3D0149	BC	3550B
beta-Hexachlorocyclohexane (Betta-BHC)	ND		1	0.217	1.00	ug/kg	04/12/23 12:54	04/12/23 20:13	B3D0149	BC	3550B
delta-Hexachlorocyclohexane (Delta-BHC)	ND		1	0.0880	1.00	ug/kg	04/12/23 12:54	04/12/23 20:13	B3D0149	BC	3550B
4,4'-DDD (DDD)	ND		1	0.0980	1.00	ug/kg	04/12/23 12:54	04/12/23 20:13	B3D0149	BC	3550B
4,4'-DDE (DDE)	ND		1	0.0930	1.00	ug/kg	04/12/23 12:54	04/12/23 20:13	B3D0149	BC	3550B
4,4'-DDT (DDT)	ND		1	0.235	1.00	ug/kg	04/12/23 12:54	04/12/23 20:13	B3D0149	BC	3550B
Dieldrin	ND		1	0.0950	1.00	ug/kg	04/12/23 12:54	04/12/23 20:13	B3D0149	BC	3550B
Endrin	ND		1	0.106	1.00	ug/kg	04/12/23 12:54	04/12/23 20:13	B3D0149	BC	3550B
Endrin aldehyde	ND		1	0.117	1.00	ug/kg	04/12/23 12:54	04/12/23 20:13	B3D0149	BC	3550B
Endrin ketone	ND		1	0.122	1.00	ug/kg	04/12/23 12:54	04/12/23 20:13	B3D0149	BC	3550B
Endosulfan 1	ND		1	0.115	1.00	ug/kg	04/12/23 12:54	04/12/23 20:13	B3D0149	BC	3550B
Endosulfan 11	ND		1	0.177	1.00	ug/kg	04/12/23 12:54	04/12/23 20:13	B3D0149	BC	3550B
Endosulfan sulfate	ND		1	0.0470	1.00	ug/kg	04/12/23 12:54	04/12/23 20:13	B3D0149	BC	3550B
Heptachlor	ND		1	0.206	1.00	ug/kg	04/12/23 12:54	04/12/23 20:13	B3D0149	BC	3550B
Heptachlor epoxide	ND		1	0.101	1.00	ug/kg	04/12/23 12:54	04/12/23 20:13	B3D0149	BC	3550B
Methoxychlor	ND		1	0.310	1.00	ug/kg	04/12/23 12:54	04/12/23 20:13	B3D0149	BC	3550B
Toxaphene	ND		1	4.10	50.0	ug/kg	04/12/23 12:54	04/12/23 20:13	B3D0149	BC	3550B
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*90.4%*				*30-150*		04/12/23 12:54	*04/12/23 20:13*	B3D0149	*BC*	3550B
Surrogate: Tetrachloro-m-xylene	*73.8%*				*30-150*		04/12/23 12:54	*04/12/23 20:13*	B3D0149	*BC*	3550B
PCBs											
Method: EPA 8082											
Aroclor-1016 (PCB-1016)	ND		1	11.6	25.0	ug/kg	04/12/23 11:05	04/12/23 18:28	B3D0140	BC	3550B
Aroclor-1221 (PCB-1221)	ND		1	8.11	25.0	ug/kg	04/12/23 11:05	04/12/23 18:28	B3D0140	BC	3550B

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51	

Analytical Results

Client ID: SB-11-D0.5

Lab ID: BED0016-31 (Soil) **Sampled: 04/05/23 11:00**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
PCBs (Continued)											
Aroclor-1232 (PCB-1232)	ND		1	15.2	25.0	ug/kg	04/12/23 11:05	04/12/23 18:28	B3D0140	BC	3550B
Aroclor-1242 (PCB-1242)	ND		1	5.25	25.0	ug/kg	04/12/23 11:05	04/12/23 18:28	B3D0140	BC	3550B
Aroclor-1248 (PCB-1248)	ND		1	11.0	25.0	ug/kg	04/12/23 11:05	04/12/23 18:28	B3D0140	BC	3550B
Aroclor-1254 (PCB-1254)	ND		1	11.9	25.0	ug/kg	04/12/23 11:05	04/12/23 18:28	B3D0140	BC	3550B
Aroclor-1260 (PCB-1260)	ND		1	6.02	25.0	ug/kg	04/12/23 11:05	04/12/23 18:28	B3D0140	BC	3550B
Aroclor-1262 (PCB-1262)	ND		1	20.0	50.0	ug/kg	04/12/23 11:05	04/12/23 18:28	B3D0140	BC	3550B
Aroclor-1268 (PCB-1268)	ND		1	20.0	50.0	ug/kg	04/12/23 11:05	04/12/23 18:28	B3D0140	BC	3550B
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*95.2%*				*50-150*		04/12/23 11:05	*04/12/23 18:28*	B3D0140	*BC*	3550B
Surrogate: Tetrachloro-m-xylene	*78.8%*				*50-150*		04/12/23 11:05	*04/12/23 18:28*	B3D0140	*BC*	3550B

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51	

Analytical Results

Client ID: SB-42-D0.5
Lab ID: BED0016-34 (Soil) **Sampled:** 04/05/23 13:00

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Cadmium	ND		1	1.30	2.50	mg/kg	04/10/23 07:54	04/13/23 14:26	B3D0081	DT	3050B
Lead	**20.4**		1	0.550	5.00	mg/kg	04/10/23 07:54	04/13/23 14:26	B3D0081	DT	3050B
Nickel	**18.4**		1	2.50	5.00	mg/kg	04/10/23 07:54	04/13/23 14:26	B3D0081	DT	3050B
Method: EPA 7471A											
Mercury	**0.0577**	J	1	0.0180	0.170	mg/kg	04/07/23 12:01	04/10/23 15:50	B3D0083	LE	7471A
Polynuclear Aromatic Hydrocarbons											
Method: EPA 8270C-SIM											
2-Methylnaphthalene	ND		1	0.00199	0.0124	mg/kg	04/12/23 10:43	04/12/23 17:16	B3D0135	ATS	3550B
Acenaphthene	ND		1	0.0108	0.0249	mg/kg	04/12/23 10:43	04/12/23 17:16	B3D0135	ATS	3550B
Acenaphthylene	ND		1	0.00932	0.0249	mg/kg	04/12/23 10:43	04/12/23 17:16	B3D0135	ATS	3550B
Anthracene	ND		1	0.0112	0.0249	mg/kg	04/12/23 10:43	04/12/23 17:16	B3D0135	ATS	3550B
Benzo(a)anthracene	ND		1	0.00891	0.0249	mg/kg	04/12/23 10:43	04/12/23 17:16	B3D0135	ATS	3550B
Benzo(a)pyrene	ND		1	0.0121	0.0249	mg/kg	04/12/23 10:43	04/12/23 17:16	B3D0135	ATS	3550B
Benzo(b)fluoranthene	ND		1	0.00760	0.0249	mg/kg	04/12/23 10:43	04/12/23 17:16	B3D0135	ATS	3550B
Benzo(g,h,i)perylene	ND		1	0.0131	0.0249	mg/kg	04/12/23 10:43	04/12/23 17:16	B3D0135	ATS	3550B
Benzo(k)fluoranthene	ND		1	0.0118	0.0249	mg/kg	04/12/23 10:43	04/12/23 17:16	B3D0135	ATS	3550B
Chrysene	ND		1	0.00846	0.0249	mg/kg	04/12/23 10:43	04/12/23 17:16	B3D0135	ATS	3550B
Dibenzo(a,h)anthracene	ND		1	0.0167	0.0249	mg/kg	04/12/23 10:43	04/12/23 17:16	B3D0135	ATS	3550B
Fluoranthene	ND		1	0.0121	0.0249	mg/kg	04/12/23 10:43	04/12/23 17:16	B3D0135	ATS	3550B
Fluorene	ND		1	0.0115	0.0249	mg/kg	04/12/23 10:43	04/12/23 17:16	B3D0135	ATS	3550B
Indeno(1,2,3-cd)pyrene	ND		1	0.0170	0.0249	mg/kg	04/12/23 10:43	04/12/23 17:16	B3D0135	ATS	3550B
Naphthalene	ND		1	0.00931	0.0249	mg/kg	04/12/23 10:43	04/12/23 17:16	B3D0135	ATS	3550B
Phenanthrene	ND		1	0.0103	0.0249	mg/kg	04/12/23 10:43	04/12/23 17:16	B3D0135	ATS	3550B
Pyrene	ND		1	0.00976	0.0249	mg/kg	04/12/23 10:43	04/12/23 17:16	B3D0135	ATS	3550B
	Recovery				Acceptance Criteria						
Surrogate: p-Terphenyl-D14	*57.0%*				*40-130*		04/12/23 10:43	*04/12/23 17:16*	B3D0135	*ATS*	3550B
Organochlorine Pesticides											

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A KYZER LABS COMPANY

Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51	

Analytical Results

Client ID: SB-42-D0.5

Lab ID: BED0016-34 (Soil) **Sampled: 04/05/23 13:00**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Organochlorine Pesticides (Continued)											
Method: EPA 8081A											
Aldrin	ND		1	0.0900	1.00	ug/kg	04/12/23 12:54	04/12/23 20:30	B3D0149	BC	3550B
alpha-Chlordane	ND		1	0.121	1.00	ug/kg	04/12/23 12:54	04/12/23 20:30	B3D0149	BC	3550B
gamma-Chlordane	ND		1	0.114	1.00	ug/kg	04/12/23 12:54	04/12/23 20:30	B3D0149	BC	3550B
Chlordane (Total)	ND		1	1.00	2.00	ug/kg	04/12/23 12:54	04/12/23 20:30	B3D0149	BC	3550B
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	ND		1	0.0620	1.00	ug/kg	04/12/23 12:54	04/12/23 20:30	B3D0149	BC	3550B
alpha-Hexachlorocyclohexane (Alpha-BHC)	ND		1	0.0710	1.00	ug/kg	04/12/23 12:54	04/12/23 20:30	B3D0149	BC	3550B
beta-Hexachlorocyclohexane (Betta-BHC)	ND		1	0.217	1.00	ug/kg	04/12/23 12:54	04/12/23 20:30	B3D0149	BC	3550B
delta-Hexachlorocyclohexane (Delta-BHC)	ND		1	0.0880	1.00	ug/kg	04/12/23 12:54	04/12/23 20:30	B3D0149	BC	3550B
4,4'-DDD (DDD)	**0.322**	J	1	0.0980	1.00	ug/kg	04/12/23 12:54	04/12/23 20:30	B3D0149	BC	3550B
4,4'-DDE (DDE)	**2.57**		1	0.0930	1.00	ug/kg	04/12/23 12:54	04/12/23 20:30	B3D0149	BC	3550B
4,4'-DDT (DDT)	**1.10**		1	0.235	1.00	ug/kg	04/12/23 12:54	04/12/23 20:30	B3D0149	BC	3550B
Dieldrin	ND		1	0.0950	1.00	ug/kg	04/12/23 12:54	04/12/23 20:30	B3D0149	BC	3550B
Endrin	**0.356**	J	1	0.106	1.00	ug/kg	04/12/23 12:54	04/12/23 20:30	B3D0149	BC	3550B
Endrin aldehyde	ND		1	0.117	1.00	ug/kg	04/12/23 12:54	04/12/23 20:30	B3D0149	BC	3550B
Endrin ketone	ND		1	0.122	1.00	ug/kg	04/12/23 12:54	04/12/23 20:30	B3D0149	BC	3550B
Endosulfan 1	ND		1	0.115	1.00	ug/kg	04/12/23 12:54	04/12/23 20:30	B3D0149	BC	3550B
Endosulfan 11	ND		1	0.177	1.00	ug/kg	04/12/23 12:54	04/12/23 20:30	B3D0149	BC	3550B
Endosulfan sulfate	ND		1	0.0470	1.00	ug/kg	04/12/23 12:54	04/12/23 20:30	B3D0149	BC	3550B
Heptachlor	ND		1	0.206	1.00	ug/kg	04/12/23 12:54	04/12/23 20:30	B3D0149	BC	3550B
Heptachlor epoxide	ND		1	0.101	1.00	ug/kg	04/12/23 12:54	04/12/23 20:30	B3D0149	BC	3550B
Methoxychlor	ND		1	0.310	1.00	ug/kg	04/12/23 12:54	04/12/23 20:30	B3D0149	BC	3550B
Toxaphene	ND		1	4.10	50.0	ug/kg	04/12/23 12:54	04/12/23 20:30	B3D0149	BC	3550B
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*93.0%*				*30-150*		04/12/23 12:54	*04/12/23 20:30*	B3D0149	*BC*	3550B
Surrogate: Tetrachloro-m-xylene	*72.9%*				*30-150*		04/12/23 12:54	*04/12/23 20:30*	B3D0149	*BC*	3550B
PCBs											
Method: EPA 8082											
Aroclor-1016 (PCB-1016)	ND		1	11.6	25.0	ug/kg	04/12/23 11:05	04/12/23 18:47	B3D0140	BC	3550B
Aroclor-1221 (PCB-1221)	ND		1	8.11	25.0	ug/kg	04/12/23 11:05	04/12/23 18:47	B3D0140	BC	3550B

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51	

Analytical Results

Client ID: SB-42-D0.5
Lab ID: BED0016-34 (Soil) **Sampled:** 04/05/23 13:00

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
PCBs (Continued)											
Aroclor-1232 (PCB-1232)	ND		1	15.2	25.0	ug/kg	04/12/23 11:05	04/12/23 18:47	B3D0140	BC	3550B
Aroclor-1242 (PCB-1242)	ND		1	5.25	25.0	ug/kg	04/12/23 11:05	04/12/23 18:47	B3D0140	BC	3550B
Aroclor-1248 (PCB-1248)	ND		1	11.0	25.0	ug/kg	04/12/23 11:05	04/12/23 18:47	B3D0140	BC	3550B
Aroclor-1254 (PCB-1254)	ND		1	11.9	25.0	ug/kg	04/12/23 11:05	04/12/23 18:47	B3D0140	BC	3550B
Aroclor-1260 (PCB-1260)	ND		1	6.02	25.0	ug/kg	04/12/23 11:05	04/12/23 18:47	B3D0140	BC	3550B
Aroclor-1262 (PCB-1262)	ND		1	20.0	50.0	ug/kg	04/12/23 11:05	04/12/23 18:47	B3D0140	BC	3550B
Aroclor-1268 (PCB-1268)	ND		1	20.0	50.0	ug/kg	04/12/23 11:05	04/12/23 18:47	B3D0140	BC	3550B
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*91.0%*				*50-150*		04/12/23 11:05	*04/12/23 18:47*	B3D0140	*BC*	3550B
Surrogate: Tetrachloro-m-xylene	*71.2%*				*50-150*		04/12/23 11:05	*04/12/23 18:47*	B3D0140	*BC*	3550B

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51	

Analytical Results

Client ID: SB-45-D0.5
Lab ID: BED0016-37 (Soil) **Sampled: 04/05/23 13:54**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Cadmium	ND		1	1.27	2.45	mg/kg	04/10/23 07:54	04/13/23 14:29	B3D0081	DT	3050B
Lead	**10.4**		1	0.550	5.00	mg/kg	04/10/23 07:54	04/13/23 14:29	B3D0081	DT	3050B
Nickel	**14.1**		1	2.45	4.90	mg/kg	04/10/23 07:54	04/13/23 14:29	B3D0081	DT	3050B
Method: EPA 7471A											
Mercury	**0.0415**	J	1	0.0180	0.170	mg/kg	04/07/23 12:01	04/10/23 15:52	B3D0083	LE	7471A
Polynuclear Aromatic Hydrocarbons											
Method: EPA 8270C-SIM											
2-Methylnaphthalene	ND		1	0.00199	0.0125	mg/kg	04/12/23 10:43	04/12/23 17:51	B3D0135	ATS	3550B
Acenaphthene	ND		1	0.0108	0.0249	mg/kg	04/12/23 10:43	04/12/23 17:51	B3D0135	ATS	3550B
Acenaphthylene	ND		1	0.00933	0.0249	mg/kg	04/12/23 10:43	04/12/23 17:51	B3D0135	ATS	3550B
Anthracene	ND		1	0.0112	0.0249	mg/kg	04/12/23 10:43	04/12/23 17:51	B3D0135	ATS	3550B
Benzo(a)anthracene	ND		1	0.00892	0.0249	mg/kg	04/12/23 10:43	04/12/23 17:51	B3D0135	ATS	3550B
Benzo(a)pyrene	ND		1	0.0121	0.0249	mg/kg	04/12/23 10:43	04/12/23 17:51	B3D0135	ATS	3550B
Benzo(b)fluoranthene	ND		1	0.00761	0.0249	mg/kg	04/12/23 10:43	04/12/23 17:51	B3D0135	ATS	3550B
Benzo(g,h,i)perylene	ND		1	0.0132	0.0249	mg/kg	04/12/23 10:43	04/12/23 17:51	B3D0135	ATS	3550B
Benzo(k)fluoranthene	ND		1	0.0119	0.0249	mg/kg	04/12/23 10:43	04/12/23 17:51	B3D0135	ATS	3550B
Chrysene	ND		1	0.00848	0.0249	mg/kg	04/12/23 10:43	04/12/23 17:51	B3D0135	ATS	3550B
Dibenzo(a,h)anthracene	ND		1	0.0167	0.0249	mg/kg	04/12/23 10:43	04/12/23 17:51	B3D0135	ATS	3550B
Fluoranthene	ND		1	0.0121	0.0249	mg/kg	04/12/23 10:43	04/12/23 17:51	B3D0135	ATS	3550B
Fluorene	ND		1	0.0115	0.0249	mg/kg	04/12/23 10:43	04/12/23 17:51	B3D0135	ATS	3550B
Indeno(1,2,3-cd)pyrene	ND		1	0.0170	0.0249	mg/kg	04/12/23 10:43	04/12/23 17:51	B3D0135	ATS	3550B
Naphthalene	ND		1	0.00932	0.0249	mg/kg	04/12/23 10:43	04/12/23 17:51	B3D0135	ATS	3550B
Phenanthrene	ND		1	0.0103	0.0249	mg/kg	04/12/23 10:43	04/12/23 17:51	B3D0135	ATS	3550B
Pyrene	ND		1	0.00977	0.0249	mg/kg	04/12/23 10:43	04/12/23 17:51	B3D0135	ATS	3550B
	Recovery				Acceptance Criteria						
Surrogate: p-Terphenyl-D14	*43.5%*				*40-130*		04/12/23 10:43	*04/12/23 17:51*	B3D0135	*ATS*	3550B
Organochlorine Pesticides											

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51	

Analytical Results

Client ID: SB-45-D0.5

Lab ID: BED0016-37 (Soil) **Sampled: 04/05/23 13:54**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Organochlorine Pesticides (Continued)											
Method: EPA 8081A											
Aldrin	ND		1	0.0900	1.00	ug/kg	04/12/23 12:54	04/12/23 20:47	B3D0149	BC	3550B
alpha-Chlordane	**0.230**	J	1	0.121	1.00	ug/kg	04/12/23 12:54	04/12/23 20:47	B3D0149	BC	3550B
gamma-Chlordane	**0.213**	J	1	0.114	1.00	ug/kg	04/12/23 12:54	04/12/23 20:47	B3D0149	BC	3550B
Chlordane (Total)	ND		1	1.00	2.00	ug/kg	04/12/23 12:54	04/12/23 20:47	B3D0149	BC	3550B
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	ND		1	0.0620	1.00	ug/kg	04/12/23 12:54	04/12/23 20:47	B3D0149	BC	3550B
alpha-Hexachlorocyclohexane (Alpha-BHC)	ND		1	0.0710	1.00	ug/kg	04/12/23 12:54	04/12/23 20:47	B3D0149	BC	3550B
beta-Hexachlorocyclohexane (Betta-BHC)	ND		1	0.217	1.00	ug/kg	04/12/23 12:54	04/12/23 20:47	B3D0149	BC	3550B
delta-Hexachlorocyclohexane (Delta-BHC)	ND		1	0.0880	1.00	ug/kg	04/12/23 12:54	04/12/23 20:47	B3D0149	BC	3550B
4,4'-DDD (DDD)	ND		1	0.0980	1.00	ug/kg	04/12/23 12:54	04/12/23 20:47	B3D0149	BC	3550B
4,4'-DDE (DDE)	**1.14**		1	0.0930	1.00	ug/kg	04/12/23 12:54	04/12/23 20:47	B3D0149	BC	3550B
4,4'-DDT (DDT)	**0.721**	J	1	0.235	1.00	ug/kg	04/12/23 12:54	04/12/23 20:47	B3D0149	BC	3550B
Dieldrin	**0.116**	J	1	0.0950	1.00	ug/kg	04/12/23 12:54	04/12/23 20:47	B3D0149	BC	3550B
Endrin	**0.189**	J	1	0.106	1.00	ug/kg	04/12/23 12:54	04/12/23 20:47	B3D0149	BC	3550B
Endrin aldehyde	ND		1	0.117	1.00	ug/kg	04/12/23 12:54	04/12/23 20:47	B3D0149	BC	3550B
Endrin ketone	ND		1	0.122	1.00	ug/kg	04/12/23 12:54	04/12/23 20:47	B3D0149	BC	3550B
Endosulfan 1	ND		1	0.115	1.00	ug/kg	04/12/23 12:54	04/12/23 20:47	B3D0149	BC	3550B
Endosulfan 11	ND		1	0.177	1.00	ug/kg	04/12/23 12:54	04/12/23 20:47	B3D0149	BC	3550B
Endosulfan sulfate	ND		1	0.0470	1.00	ug/kg	04/12/23 12:54	04/12/23 20:47	B3D0149	BC	3550B
Heptachlor	ND		1	0.206	1.00	ug/kg	04/12/23 12:54	04/12/23 20:47	B3D0149	BC	3550B
Heptachlor epoxide	ND		1	0.101	1.00	ug/kg	04/12/23 12:54	04/12/23 20:47	B3D0149	BC	3550B
Methoxychlor	ND		1	0.310	1.00	ug/kg	04/12/23 12:54	04/12/23 20:47	B3D0149	BC	3550B
Toxaphene	ND		1	4.10	50.0	ug/kg	04/12/23 12:54	04/12/23 20:47	B3D0149	BC	3550B
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*95.5%*				*30-150*		04/12/23 12:54	*04/12/23 20:47*	B3D0149	*BC*	3550B
Surrogate: Tetrachloro-m-xylene	*76.0%*				*30-150*		04/12/23 12:54	*04/12/23 20:47*	B3D0149	*BC*	3550B
PCBs											
Method: EPA 8082											
Aroclor-1016 (PCB-1016)	ND		1	11.6	25.0	ug/kg	04/12/23 11:05	04/12/23 19:06	B3D0140	BC	3550B
Aroclor-1221 (PCB-1221)	ND		1	8.11	25.0	ug/kg	04/12/23 11:05	04/12/23 19:06	B3D0140	BC	3550B

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51	

Analytical Results

Client ID: **SB-45-D0.5**
Lab ID: **BED0016-37 (Soil)** **Sampled:** **04/05/23 13:54**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
PCBs (Continued)											
Aroclor-1232 (PCB-1232)	ND		1	15.2	25.0	ug/kg	04/12/23 11:05	04/12/23 19:06	B3D0140	BC	3550B
Aroclor-1242 (PCB-1242)	ND		1	5.25	25.0	ug/kg	04/12/23 11:05	04/12/23 19:06	B3D0140	BC	3550B
Aroclor-1248 (PCB-1248)	ND		1	11.0	25.0	ug/kg	04/12/23 11:05	04/12/23 19:06	B3D0140	BC	3550B
Aroclor-1254 (PCB-1254)	ND		1	11.9	25.0	ug/kg	04/12/23 11:05	04/12/23 19:06	B3D0140	BC	3550B
Aroclor-1260 (PCB-1260)	ND		1	6.02	25.0	ug/kg	04/12/23 11:05	04/12/23 19:06	B3D0140	BC	3550B
Aroclor-1262 (PCB-1262)	ND		1	20.0	50.0	ug/kg	04/12/23 11:05	04/12/23 19:06	B3D0140	BC	3550B
Aroclor-1268 (PCB-1268)	ND		1	20.0	50.0	ug/kg	04/12/23 11:05	04/12/23 19:06	B3D0140	BC	3550B
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*112%*				*50-150*		04/12/23 11:05	*04/12/23 19:06*	B3D0140	*BC*	3550B
Surrogate: Tetrachloro-m-xylene	*77.6%*				*50-150*		04/12/23 11:05	*04/12/23 19:06*	B3D0140	*BC*	3550B

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51	

Analytical Results

Client ID: SB-47-D0.5
Lab ID: BED0016-40 (Soil) **Sampled:** 04/05/23 14:37

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Cadmium	ND		1	1.30	2.50	mg/kg	04/10/23 07:54	04/13/23 14:32	B3D0081	DT	3050B
Lead	**13.0**		1	0.550	5.00	mg/kg	04/10/23 07:54	04/13/23 14:32	B3D0081	DT	3050B
Nickel	**25.0**		1	2.50	5.00	mg/kg	04/10/23 07:54	04/13/23 14:32	B3D0081	DT	3050B
Method: EPA 7471A											
Mercury	**0.0286**	J	1	0.0180	0.170	mg/kg	04/07/23 12:01	04/10/23 15:54	B3D0083	LE	7471A
Polynuclear Aromatic Hydrocarbons											
Method: EPA 8270C-SIM											
2-Methylnaphthalene	ND		1	0.00200	0.0125	mg/kg	04/12/23 10:43	04/12/23 18:26	B3D0135	ATS	3550B
Acenaphthene	ND		1	0.0108	0.0250	mg/kg	04/12/23 10:43	04/12/23 18:26	B3D0135	ATS	3550B
Acenaphthylene	ND		1	0.00936	0.0250	mg/kg	04/12/23 10:43	04/12/23 18:26	B3D0135	ATS	3550B
Anthracene	ND		1	0.0112	0.0250	mg/kg	04/12/23 10:43	04/12/23 18:26	B3D0135	ATS	3550B
Benzo(a)anthracene	ND		1	0.00895	0.0250	mg/kg	04/12/23 10:43	04/12/23 18:26	B3D0135	ATS	3550B
Benzo(a)pyrene	ND		1	0.0121	0.0250	mg/kg	04/12/23 10:43	04/12/23 18:26	B3D0135	ATS	3550B
Benzo(b)fluoranthene	ND		1	0.00763	0.0250	mg/kg	04/12/23 10:43	04/12/23 18:26	B3D0135	ATS	3550B
Benzo(g,h,i)perylene	ND		1	0.0132	0.0250	mg/kg	04/12/23 10:43	04/12/23 18:26	B3D0135	ATS	3550B
Benzo(k)fluoranthene	ND		1	0.0119	0.0250	mg/kg	04/12/23 10:43	04/12/23 18:26	B3D0135	ATS	3550B
Chrysene	ND		1	0.00850	0.0250	mg/kg	04/12/23 10:43	04/12/23 18:26	B3D0135	ATS	3550B
Dibenzo(a,h)anthracene	ND		1	0.0168	0.0250	mg/kg	04/12/23 10:43	04/12/23 18:26	B3D0135	ATS	3550B
Fluoranthene	ND		1	0.0121	0.0250	mg/kg	04/12/23 10:43	04/12/23 18:26	B3D0135	ATS	3550B
Fluorene	ND		1	0.0115	0.0250	mg/kg	04/12/23 10:43	04/12/23 18:26	B3D0135	ATS	3550B
Indeno(1,2,3-cd)pyrene	ND		1	0.0170	0.0250	mg/kg	04/12/23 10:43	04/12/23 18:26	B3D0135	ATS	3550B
Naphthalene	ND		1	0.00935	0.0250	mg/kg	04/12/23 10:43	04/12/23 18:26	B3D0135	ATS	3550B
Phenanthrene	ND		1	0.0103	0.0250	mg/kg	04/12/23 10:43	04/12/23 18:26	B3D0135	ATS	3550B
Pyrene	ND		1	0.00980	0.0250	mg/kg	04/12/23 10:43	04/12/23 18:26	B3D0135	ATS	3550B
	Recovery				Acceptance Criteria						
Surrogate: p-Terphenyl-D14	*61.0%*				*40-130*		04/12/23 10:43	*04/12/23 18:26*	B3D0135	*ATS*	3550B
Organochlorine Pesticides											

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51	

Analytical Results

Client ID: SB-47-D0.5

Lab ID: BED0016-40 (Soil) **Sampled: 04/05/23 14:37**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Organochlorine Pesticides (Continued)											
Method: EPA 8081A											
Aldrin	ND	D	2	0.180	2.00	ug/kg	04/12/23 12:54	04/12/23 21:04	B3D0149	BC	3550B
alpha-Chlordane	**1.21**	DIL, J	2	0.242	2.00	ug/kg	04/12/23 12:54	04/12/23 21:04	B3D0149	BC	3550B
gamma-Chlordane	**1.43**	DIL, J	2	0.228	2.00	ug/kg	04/12/23 12:54	04/12/23 21:04	B3D0149	BC	3550B
Chlordane (Total)	**2.64**	DIL, J	2	2.00	4.00	ug/kg	04/12/23 12:54	04/12/23 21:04	B3D0149	BC	3550B
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	ND	D	2	0.124	2.00	ug/kg	04/12/23 12:54	04/12/23 21:04	B3D0149	BC	3550B
alpha-Hexachlorocyclohexane (Alpha-BHC)	ND	D	2	0.142	2.00	ug/kg	04/12/23 12:54	04/12/23 21:04	B3D0149	BC	3550B
beta-Hexachlorocyclohexane (Betta-BHC)	ND	D	2	0.434	2.00	ug/kg	04/12/23 12:54	04/12/23 21:04	B3D0149	BC	3550B
delta-Hexachlorocyclohexane (Delta-BHC)	ND	D	2	0.176	2.00	ug/kg	04/12/23 12:54	04/12/23 21:04	B3D0149	BC	3550B
4,4'-DDD (DDD)	**2.71**	DIL	2	0.196	2.00	ug/kg	04/12/23 12:54	04/12/23 21:04	B3D0149	BC	3550B
4,4'-DDE (DDE)	**33.0**	DIL	2	0.186	2.00	ug/kg	04/12/23 12:54	04/12/23 21:04	B3D0149	BC	3550B
4,4'-DDT (DDT)	**27.8**	DIL	2	0.470	2.00	ug/kg	04/12/23 12:54	04/12/23 21:04	B3D0149	BC	3550B
Dieldrin	**3.60**	DIL	2	0.190	2.00	ug/kg	04/12/23 12:54	04/12/23 21:04	B3D0149	BC	3550B
Endrin	**1.21**	DIL, J	2	0.212	2.00	ug/kg	04/12/23 12:54	04/12/23 21:04	B3D0149	BC	3550B
Endrin aldehyde	ND	D	2	0.234	2.00	ug/kg	04/12/23 12:54	04/12/23 21:04	B3D0149	BC	3550B
Endrin ketone	ND	D	2	0.244	2.00	ug/kg	04/12/23 12:54	04/12/23 21:04	B3D0149	BC	3550B
Endosulfan 1	ND	D	2	0.230	2.00	ug/kg	04/12/23 12:54	04/12/23 21:04	B3D0149	BC	3550B
Endosulfan 11	ND	D	2	0.354	2.00	ug/kg	04/12/23 12:54	04/12/23 21:04	B3D0149	BC	3550B
Endosulfan sulfate	ND	D	2	0.0940	2.00	ug/kg	04/12/23 12:54	04/12/23 21:04	B3D0149	BC	3550B
Heptachlor	ND	D	2	0.412	2.00	ug/kg	04/12/23 12:54	04/12/23 21:04	B3D0149	BC	3550B
Heptachlor epoxide	**0.268**	DIL, J	2	0.202	2.00	ug/kg	04/12/23 12:54	04/12/23 21:04	B3D0149	BC	3550B
Methoxychlor	ND	D	2	0.620	2.00	ug/kg	04/12/23 12:54	04/12/23 21:04	B3D0149	BC	3550B
Toxaphene	ND	D	2	8.20	100	ug/kg	04/12/23 12:54	04/12/23 21:04	B3D0149	BC	3550B
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*68.8%*				*30-150*		04/12/23 12:54	*04/12/23 21:04*	B3D0149	*BC*	3550B
Surrogate: Tetrachloro-m-xylene	*63.7%*				*30-150*		04/12/23 12:54	*04/12/23 21:04*	B3D0149	*BC*	3550B
PCBs											
Method: EPA 8082											
Aroclor-1016 (PCB-1016)	ND	D	2	23.2	50.0	ug/kg	04/12/23 11:05	04/12/23 19:26	B3D0140	BC	3550B
Aroclor-1221 (PCB-1221)	ND	D	2	16.2	50.0	ug/kg	04/12/23 11:05	04/12/23 19:26	B3D0140	BC	3550B

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51	

Analytical Results

Client ID: SB-47-D0.5

Lab ID: BED0016-40 (Soil) **Sampled: 04/05/23 14:37**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
PCBs (Continued)											
Aroclor-1232 (PCB-1232)	ND	D	2	30.4	50.0	ug/kg	04/12/23 11:05	04/12/23 19:26	B3D0140	BC	3550B
Aroclor-1242 (PCB-1242)	ND	D	2	10.5	50.0	ug/kg	04/12/23 11:05	04/12/23 19:26	B3D0140	BC	3550B
Aroclor-1248 (PCB-1248)	ND	D	2	22.0	50.0	ug/kg	04/12/23 11:05	04/12/23 19:26	B3D0140	BC	3550B
Aroclor-1254 (PCB-1254)	ND	D	2	23.8	50.0	ug/kg	04/12/23 11:05	04/12/23 19:26	B3D0140	BC	3550B
Aroclor-1260 (PCB-1260)	ND	D	2	12.0	50.0	ug/kg	04/12/23 11:05	04/12/23 19:26	B3D0140	BC	3550B
Aroclor-1262 (PCB-1262)	ND	D	2	40.0	100	ug/kg	04/12/23 11:05	04/12/23 19:26	B3D0140	BC	3550B
Aroclor-1268 (PCB-1268)	ND	D	2	40.0	100	ug/kg	04/12/23 11:05	04/12/23 19:26	B3D0140	BC	3550B
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*94.0%*				*50-150*		04/12/23 11:05	*04/12/23 19:26*	B3D0140	*BC*	3550B
Surrogate: Tetrachloro-m-xylene	*91.2%*				*50-150*		04/12/23 11:05	*04/12/23 19:26*	B3D0140	*BC*	3550B

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51	

Analytical Results

Client ID: SB-44-D0.5
Lab ID: BED0016-43 (Soil) **Sampled: 04/05/23 14:12**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Lead	**16.9**		1	0.550	5.00	mg/kg	04/10/23 07:54	04/13/23 14:35	B3D0081	DT	3050B
Organochlorine Pesticides											
Method: EPA 8081A											
Aldrin	ND		1	0.0900	1.00	ug/kg	04/12/23 12:54	04/12/23 21:21	B3D0149	BC	3550B
alpha-Chlordane	**0.400**	J	1	0.121	1.00	ug/kg	04/12/23 12:54	04/12/23 21:21	B3D0149	BC	3550B
gamma-Chlordane	**0.416**	J	1	0.114	1.00	ug/kg	04/12/23 12:54	04/12/23 21:21	B3D0149	BC	3550B
Chlordane (Total)	ND		1	1.00	2.00	ug/kg	04/12/23 12:54	04/12/23 21:21	B3D0149	BC	3550B
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	ND		1	0.0620	1.00	ug/kg	04/12/23 12:54	04/12/23 21:21	B3D0149	BC	3550B
alpha-Hexachlorocyclohexane (Alpha-BHC)	ND		1	0.0710	1.00	ug/kg	04/12/23 12:54	04/12/23 21:21	B3D0149	BC	3550B
beta-Hexachlorocyclohexane (Betta-BHC)	ND		1	0.217	1.00	ug/kg	04/12/23 12:54	04/12/23 21:21	B3D0149	BC	3550B
delta-Hexachlorocyclohexane (Delta-BHC)	ND		1	0.0880	1.00	ug/kg	04/12/23 12:54	04/12/23 21:21	B3D0149	BC	3550B
4,4'-DDD (DDD)	**0.261**	J	1	0.0980	1.00	ug/kg	04/12/23 12:54	04/12/23 21:21	B3D0149	BC	3550B
4,4'-DDE (DDE)	**6.21**		1	0.0930	1.00	ug/kg	04/12/23 12:54	04/12/23 21:21	B3D0149	BC	3550B
4,4'-DDT (DDT)	**3.85**		1	0.235	1.00	ug/kg	04/12/23 12:54	04/12/23 21:21	B3D0149	BC	3550B
Dieldrin	**1.13**		1	0.0950	1.00	ug/kg	04/12/23 12:54	04/12/23 21:21	B3D0149	BC	3550B
Endrin	**0.362**	J	1	0.106	1.00	ug/kg	04/12/23 12:54	04/12/23 21:21	B3D0149	BC	3550B
Endrin aldehyde	ND		1	0.117	1.00	ug/kg	04/12/23 12:54	04/12/23 21:21	B3D0149	BC	3550B
Endrin ketone	ND		1	0.122	1.00	ug/kg	04/12/23 12:54	04/12/23 21:21	B3D0149	BC	3550B
Endosulfan 1	ND		1	0.115	1.00	ug/kg	04/12/23 12:54	04/12/23 21:21	B3D0149	BC	3550B
Endosulfan 11	ND		1	0.177	1.00	ug/kg	04/12/23 12:54	04/12/23 21:21	B3D0149	BC	3550B
Endosulfan sulfate	ND		1	0.0470	1.00	ug/kg	04/12/23 12:54	04/12/23 21:21	B3D0149	BC	3550B
Heptachlor	ND		1	0.206	1.00	ug/kg	04/12/23 12:54	04/12/23 21:21	B3D0149	BC	3550B
Heptachlor epoxide	ND		1	0.101	1.00	ug/kg	04/12/23 12:54	04/12/23 21:21	B3D0149	BC	3550B
Methoxychlor	ND		1	0.310	1.00	ug/kg	04/12/23 12:54	04/12/23 21:21	B3D0149	BC	3550B
Toxaphene	ND		1	4.10	50.0	ug/kg	04/12/23 12:54	04/12/23 21:21	B3D0149	BC	3550B
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*79.2%*				*30-150*		04/12/23 12:54	*04/12/23 21:21*	B3D0149	*BC*	3550B
Surrogate: Tetrachloro-m-xylene	*68.7%*				*30-150*		04/12/23 12:54	*04/12/23 21:21*	B3D0149	*BC*	3550B

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51	

Analytical Results

Client ID: **SB-44-D0.5**
Lab ID: **BED0016-43 (Soil)** **Sampled:** **04/05/23 14:12**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method

Organochlorine Pesticides (Continued)

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51	

Analytical Results

Client ID: SB-14-D0.5
Lab ID: BED0016-48 (Soil) **Sampled: 04/05/23 11:33**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Lead	**16.4**		1	0.550	5.00	mg/kg	04/10/23 07:54	04/13/23 14:38	B3D0081	DT	3050B
Organochlorine Pesticides											
Method: EPA 8081A											
Aldrin	ND		1	0.0900	1.00	ug/kg	04/12/23 12:54	04/12/23 21:38	B3D0149	BC	3550B
alpha-Chlordane	ND		1	0.121	1.00	ug/kg	04/12/23 12:54	04/12/23 21:38	B3D0149	BC	3550B
gamma-Chlordane	ND		1	0.114	1.00	ug/kg	04/12/23 12:54	04/12/23 21:38	B3D0149	BC	3550B
Chlordane (Total)	ND		1	1.00	2.00	ug/kg	04/12/23 12:54	04/12/23 21:38	B3D0149	BC	3550B
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	ND		1	0.0620	1.00	ug/kg	04/12/23 12:54	04/12/23 21:38	B3D0149	BC	3550B
alpha-Hexachlorocyclohexane (Alpha-BHC)	ND		1	0.0710	1.00	ug/kg	04/12/23 12:54	04/12/23 21:38	B3D0149	BC	3550B
beta-Hexachlorocyclohexane (Betta-BHC)	ND		1	0.217	1.00	ug/kg	04/12/23 12:54	04/12/23 21:38	B3D0149	BC	3550B
delta-Hexachlorocyclohexane (Delta-BHC)	ND		1	0.0880	1.00	ug/kg	04/12/23 12:54	04/12/23 21:38	B3D0149	BC	3550B
4,4'-DDD (DDD)	ND		1	0.0980	1.00	ug/kg	04/12/23 12:54	04/12/23 21:38	B3D0149	BC	3550B
4,4'-DDE (DDE)	ND		1	0.0930	1.00	ug/kg	04/12/23 12:54	04/12/23 21:38	B3D0149	BC	3550B
4,4'-DDT (DDT)	ND		1	0.235	1.00	ug/kg	04/12/23 12:54	04/12/23 21:38	B3D0149	BC	3550B
Dieldrin	ND		1	0.0950	1.00	ug/kg	04/12/23 12:54	04/12/23 21:38	B3D0149	BC	3550B
Endrin	ND		1	0.106	1.00	ug/kg	04/12/23 12:54	04/12/23 21:38	B3D0149	BC	3550B
Endrin aldehyde	ND		1	0.117	1.00	ug/kg	04/12/23 12:54	04/12/23 21:38	B3D0149	BC	3550B
Endrin ketone	ND		1	0.122	1.00	ug/kg	04/12/23 12:54	04/12/23 21:38	B3D0149	BC	3550B
Endosulfan 1	ND		1	0.115	1.00	ug/kg	04/12/23 12:54	04/12/23 21:38	B3D0149	BC	3550B
Endosulfan 11	ND		1	0.177	1.00	ug/kg	04/12/23 12:54	04/12/23 21:38	B3D0149	BC	3550B
Endosulfan sulfate	ND		1	0.0470	1.00	ug/kg	04/12/23 12:54	04/12/23 21:38	B3D0149	BC	3550B
Heptachlor	ND		1	0.206	1.00	ug/kg	04/12/23 12:54	04/12/23 21:38	B3D0149	BC	3550B
Heptachlor epoxide	ND		1	0.101	1.00	ug/kg	04/12/23 12:54	04/12/23 21:38	B3D0149	BC	3550B
Methoxychlor	ND		1	0.310	1.00	ug/kg	04/12/23 12:54	04/12/23 21:38	B3D0149	BC	3550B
Toxaphene	ND		1	4.10	50.0	ug/kg	04/12/23 12:54	04/12/23 21:38	B3D0149	BC	3550B
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*70.6%*				*30-150*		04/12/23 12:54	*04/12/23 21:38*	B3D0149	*BC*	3550B
Surrogate: Tetrachloro-m-xylene	*64.7%*				*30-150*		04/12/23 12:54	*04/12/23 21:38*	B3D0149	*BC*	3550B

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51	

Analytical Results

Client ID: **SB-14-D0.5**
Lab ID: **BED0016-48 (Soil)** **Sampled:** **04/05/23 11:33**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method

Organochlorine Pesticides (Continued)

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51	

Analytical Results

Client ID: SB-41-D0.5
Lab ID: BED0016-51 (Soil) **Sampled: 04/05/23 12:37**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Lead	**15.4**		1	0.550	5.00	mg/kg	04/10/23 07:54	04/13/23 14:41	B3D0081	DT	3050B
Organochlorine Pesticides											
Method: EPA 8081A											
Aldrin	ND		1	0.0900	1.00	ug/kg	04/12/23 12:54	04/12/23 22:12	B3D0149	BC	3550B
alpha-Chlordane	ND		1	0.121	1.00	ug/kg	04/12/23 12:54	04/12/23 22:12	B3D0149	BC	3550B
gamma-Chlordane	ND		1	0.114	1.00	ug/kg	04/12/23 12:54	04/12/23 22:12	B3D0149	BC	3550B
Chlordane (Total)	ND		1	1.00	2.00	ug/kg	04/12/23 12:54	04/12/23 22:12	B3D0149	BC	3550B
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	ND		1	0.0620	1.00	ug/kg	04/12/23 12:54	04/12/23 22:12	B3D0149	BC	3550B
alpha-Hexachlorocyclohexane (Alpha-BHC)	ND		1	0.0710	1.00	ug/kg	04/12/23 12:54	04/12/23 22:12	B3D0149	BC	3550B
beta-Hexachlorocyclohexane (Betta-BHC)	ND		1	0.217	1.00	ug/kg	04/12/23 12:54	04/12/23 22:12	B3D0149	BC	3550B
delta-Hexachlorocyclohexane (Delta-BHC)	ND		1	0.0880	1.00	ug/kg	04/12/23 12:54	04/12/23 22:12	B3D0149	BC	3550B
4,4'-DDD (DDD)	ND		1	0.0980	1.00	ug/kg	04/12/23 12:54	04/12/23 22:12	B3D0149	BC	3550B
4,4'-DDE (DDE)	**0.240**	J	1	0.0930	1.00	ug/kg	04/12/23 12:54	04/12/23 22:12	B3D0149	BC	3550B
4,4'-DDT (DDT)	**2.04**		1	0.235	1.00	ug/kg	04/12/23 12:54	04/12/23 22:12	B3D0149	BC	3550B
Dieldrin	ND		1	0.0950	1.00	ug/kg	04/12/23 12:54	04/12/23 22:12	B3D0149	BC	3550B
Endrin	ND		1	0.106	1.00	ug/kg	04/12/23 12:54	04/12/23 22:12	B3D0149	BC	3550B
Endrin aldehyde	ND		1	0.117	1.00	ug/kg	04/12/23 12:54	04/12/23 22:12	B3D0149	BC	3550B
Endrin ketone	ND		1	0.122	1.00	ug/kg	04/12/23 12:54	04/12/23 22:12	B3D0149	BC	3550B
Endosulfan 1	ND		1	0.115	1.00	ug/kg	04/12/23 12:54	04/12/23 22:12	B3D0149	BC	3550B
Endosulfan 11	ND		1	0.177	1.00	ug/kg	04/12/23 12:54	04/12/23 22:12	B3D0149	BC	3550B
Endosulfan sulfate	ND		1	0.0470	1.00	ug/kg	04/12/23 12:54	04/12/23 22:12	B3D0149	BC	3550B
Heptachlor	ND		1	0.206	1.00	ug/kg	04/12/23 12:54	04/12/23 22:12	B3D0149	BC	3550B
Heptachlor epoxide	ND		1	0.101	1.00	ug/kg	04/12/23 12:54	04/12/23 22:12	B3D0149	BC	3550B
Methoxychlor	ND		1	0.310	1.00	ug/kg	04/12/23 12:54	04/12/23 22:12	B3D0149	BC	3550B
Toxaphene	ND		1	4.10	50.0	ug/kg	04/12/23 12:54	04/12/23 22:12	B3D0149	BC	3550B
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*85.3%*				*30-150*		04/12/23 12:54	*04/12/23 22:12*	B3D0149	*BC*	3550B
Surrogate: Tetrachloro-m-xylene	*73.2%*				*30-150*		04/12/23 12:54	*04/12/23 22:12*	B3D0149	*BC*	3550B

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51	

Analytical Results

Client ID: **SB-41-D0.5**
Lab ID: **BED0016-51 (Soil)** **Sampled:** **04/05/23 12:37**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method

Organochlorine Pesticides (Continued)

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51	

Analytical Results

Client ID: SB-43-D0.5
Lab ID: BED0016-54 (Soil) **Sampled: 04/05/23 13:21**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Lead	**20.7**		1	0.550	5.00	mg/kg	04/10/23 07:54	04/13/23 14:44	B3D0081	DT	3050B
Organochlorine Pesticides											
Method: EPA 8081A											
Aldrin	ND		1	0.0900	1.00	ug/kg	04/12/23 12:54	04/12/23 22:29	B3D0149	BC	3550B
alpha-Chlordane	**0.683**	J	1	0.121	1.00	ug/kg	04/12/23 12:54	04/12/23 22:29	B3D0149	BC	3550B
gamma-Chlordane	**0.618**	J	1	0.114	1.00	ug/kg	04/12/23 12:54	04/12/23 22:29	B3D0149	BC	3550B
Chlordane (Total)	**1.30**	J	1	1.00	2.00	ug/kg	04/12/23 12:54	04/12/23 22:29	B3D0149	BC	3550B
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	ND		1	0.0620	1.00	ug/kg	04/12/23 12:54	04/12/23 22:29	B3D0149	BC	3550B
alpha-Hexachlorocyclohexane (Alpha-BHC)	ND		1	0.0710	1.00	ug/kg	04/12/23 12:54	04/12/23 22:29	B3D0149	BC	3550B
beta-Hexachlorocyclohexane (Betta-BHC)	ND		1	0.217	1.00	ug/kg	04/12/23 12:54	04/12/23 22:29	B3D0149	BC	3550B
delta-Hexachlorocyclohexane (Delta-BHC)	ND		1	0.0880	1.00	ug/kg	04/12/23 12:54	04/12/23 22:29	B3D0149	BC	3550B
4,4'-DDD (DDD)	**0.296**	J	1	0.0980	1.00	ug/kg	04/12/23 12:54	04/12/23 22:29	B3D0149	BC	3550B
4,4'-DDE (DDE)	**5.61**		1	0.0930	1.00	ug/kg	04/12/23 12:54	04/12/23 22:29	B3D0149	BC	3550B
4,4'-DDT (DDT)	**4.91**		1	0.235	1.00	ug/kg	04/12/23 12:54	04/12/23 22:29	B3D0149	BC	3550B
Dieldrin	**0.949**	J	1	0.0950	1.00	ug/kg	04/12/23 12:54	04/12/23 22:29	B3D0149	BC	3550B
Endrin	**0.201**	J	1	0.106	1.00	ug/kg	04/12/23 12:54	04/12/23 22:29	B3D0149	BC	3550B
Endrin aldehyde	ND		1	0.117	1.00	ug/kg	04/12/23 12:54	04/12/23 22:29	B3D0149	BC	3550B
Endrin ketone	ND		1	0.122	1.00	ug/kg	04/12/23 12:54	04/12/23 22:29	B3D0149	BC	3550B
Endosulfan 1	ND		1	0.115	1.00	ug/kg	04/12/23 12:54	04/12/23 22:29	B3D0149	BC	3550B
Endosulfan 11	ND		1	0.177	1.00	ug/kg	04/12/23 12:54	04/12/23 22:29	B3D0149	BC	3550B
Endosulfan sulfate	ND		1	0.0470	1.00	ug/kg	04/12/23 12:54	04/12/23 22:29	B3D0149	BC	3550B
Heptachlor	ND		1	0.206	1.00	ug/kg	04/12/23 12:54	04/12/23 22:29	B3D0149	BC	3550B
Heptachlor epoxide	ND		1	0.101	1.00	ug/kg	04/12/23 12:54	04/12/23 22:29	B3D0149	BC	3550B
Methoxychlor	ND		1	0.310	1.00	ug/kg	04/12/23 12:54	04/12/23 22:29	B3D0149	BC	3550B
Toxaphene	ND		1	4.10	50.0	ug/kg	04/12/23 12:54	04/12/23 22:29	B3D0149	BC	3550B
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*73.7%*				*30-150*		04/12/23 12:54	*04/12/23 22:29*	B3D0149	*BC*	3550B
Surrogate: Tetrachloro-m-xylene	*64.9%*				*30-150*		04/12/23 12:54	*04/12/23 22:29*	B3D0149	*BC*	3550B

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51	

Analytical Results

Client ID: **SB-43-D0.5**
Lab ID: **BED0016-54 (Soil)** **Sampled:** **04/05/23 13:21**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method

Organochlorine Pesticides (Continued)

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51	

Analytical Results

Client ID: SB-46-D0.5
Lab ID: BED0016-57 (Soil) **Sampled: 04/05/23 13:37**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Lead	**0.625**	J	1	0.550	5.00	mg/kg	04/10/23 07:57	04/13/23 16:37	B3D0082	LE	3050B
Organochlorine Pesticides											
Method: EPA 8081A											
Aldrin	ND		1	0.0900	1.00	ug/kg	04/13/23 08:07	04/13/23 10:47	B3D0155	BC	3550B
alpha-Chlordane	ND		1	0.121	1.00	ug/kg	04/13/23 08:07	04/13/23 10:47	B3D0155	BC	3550B
gamma-Chlordane	ND		1	0.114	1.00	ug/kg	04/13/23 08:07	04/13/23 10:47	B3D0155	BC	3550B
Chlordane (Total)	ND		1	1.00	2.00	ug/kg	04/13/23 08:07	04/13/23 10:47	B3D0155	BC	3550B
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	ND		1	0.0620	1.00	ug/kg	04/13/23 08:07	04/13/23 10:47	B3D0155	BC	3550B
alpha-Hexachlorocyclohexane (Alpha-BHC)	ND		1	0.0710	1.00	ug/kg	04/13/23 08:07	04/13/23 10:47	B3D0155	BC	3550B
beta-Hexachlorocyclohexane (Betta-BHC)	ND		1	0.217	1.00	ug/kg	04/13/23 08:07	04/13/23 10:47	B3D0155	BC	3550B
delta-Hexachlorocyclohexane (Delta-BHC)	ND		1	0.0880	1.00	ug/kg	04/13/23 08:07	04/13/23 10:47	B3D0155	BC	3550B
4,4'-DDD (DDD)	ND		1	0.0980	1.00	ug/kg	04/13/23 08:07	04/13/23 10:47	B3D0155	BC	3550B
4,4'-DDE (DDE)	ND		1	0.0930	1.00	ug/kg	04/13/23 08:07	04/13/23 10:47	B3D0155	BC	3550B
4,4'-DDT (DDT)	ND		1	0.235	1.00	ug/kg	04/13/23 08:07	04/13/23 10:47	B3D0155	BC	3550B
Dieldrin	ND		1	0.0950	1.00	ug/kg	04/13/23 08:07	04/13/23 10:47	B3D0155	BC	3550B
Endrin	ND		1	0.106	1.00	ug/kg	04/13/23 08:07	04/13/23 10:47	B3D0155	BC	3550B
Endrin aldehyde	ND		1	0.117	1.00	ug/kg	04/13/23 08:07	04/13/23 10:47	B3D0155	BC	3550B
Endrin ketone	ND		1	0.122	1.00	ug/kg	04/13/23 08:07	04/13/23 10:47	B3D0155	BC	3550B
Endosulfan 1	ND		1	0.115	1.00	ug/kg	04/13/23 08:07	04/13/23 10:47	B3D0155	BC	3550B
Endosulfan 11	ND		1	0.177	1.00	ug/kg	04/13/23 08:07	04/13/23 10:47	B3D0155	BC	3550B
Endosulfan sulfate	ND		1	0.0470	1.00	ug/kg	04/13/23 08:07	04/13/23 10:47	B3D0155	BC	3550B
Heptachlor	ND		1	0.206	1.00	ug/kg	04/13/23 08:07	04/13/23 10:47	B3D0155	BC	3550B
Heptachlor epoxide	ND		1	0.101	1.00	ug/kg	04/13/23 08:07	04/13/23 10:47	B3D0155	BC	3550B
Methoxychlor	ND		1	0.310	1.00	ug/kg	04/13/23 08:07	04/13/23 10:47	B3D0155	BC	3550B
Toxaphene	ND		1	4.10	50.0	ug/kg	04/13/23 08:07	04/13/23 10:47	B3D0155	BC	3550B
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*78.9%*				*30-150*		04/13/23 08:07	*04/13/23 10:47*	B3D0155	*BC*	3550B
Surrogate: Tetrachloro-m-xylene	*59.4%*				*30-150*		04/13/23 08:07	*04/13/23 10:47*	B3D0155	*BC*	3550B

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51	

Analytical Results

Client ID: **SB-46-D0.5**
Lab ID: **BED0016-57 (Soil)** **Sampled:** **04/05/23 13:37**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method

Organochlorine Pesticides (Continued)

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100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51

Quality Control Results

Metals Total (EPA 6010B)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0081 - 3050B					**Prepared: 04/10/2023 07:54**						
Method Blank (B3D0081-BLK1)					**Analyzed: 04/13/2023 13:20**						
Cadmium	ND	1.25	2.40	mg/kg							
Lead	ND	0.550	5.00	mg/kg							
Nickel	ND	2.40	4.81	mg/kg							

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100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51	

Quality Control Results

Metals Total (EPA 6010B)

Analyte	Result		RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0081 - 3050B (Continued)					**Prepared: 04/10/2023 07:54**						
LCS (B3D0081-BS1)					**Analyzed: 04/13/2023 13:23**						
Cadmium	103		2.50	mg/kg	100		103	75-125			
Lead	103		5.00	mg/kg	100		103	75-125			
Nickel	104		5.00	mg/kg	100		104	75-125			
LCSD (B3D0081-BSD1)					**Analyzed: 04/13/2023 13:26**						
Cadmium	100		2.45	mg/kg	98.0		102	75-125	2.58	15	
Lead	99.1		5.00	mg/kg	98.0		101	75-125	4.15	15	
Nickel	101		4.90	mg/kg	98.0		103	75-125	3.31	15	
Duplicate (B3D0081-DUP1)		**Source: BED0016-01**			**Analyzed: 04/13/2023 13:31**						
Cadmium	ND	1.30	2.50	mg/kg		ND			NA	20	
Lead	5.99	0.550	5.00	mg/kg		5.86			2.18	20	
Nickel	22.0	2.50	5.00	mg/kg		23.8			8.20	20	
Matrix Spike (B3D0081-MS1)		**Source: BED0016-01**			**Analyzed: 04/13/2023 13:34**						
Cadmium	88.7	1.26	2.43	mg/kg	97.1	ND	91.4	75-125			
Lead	90.7	0.550	5.00	mg/kg	97.1	5.86	87.4	75-125			
Nickel	114	2.43	4.85	mg/kg	97.1	23.8	92.7	75-125			
Matrix Spike Dup (B3D0081-MSD1)		**Source: BED0016-01**			**Analyzed: 04/13/2023 13:37**						
Cadmium	89.4	1.30	2.50	mg/kg	100	ND	89.4	75-125	NA	15	
Lead	89.8	0.550	5.00	mg/kg	100	5.86	84.0	75-125	1.02	15	
Nickel	112	2.50	5.00	mg/kg	100	23.8	87.9	75-125	1.83	15	
Batch: B3D0082 - 3050B					**Prepared: 04/10/2023 07:57**						
Method Blank (B3D0082-BLK1)					**Analyzed: 04/13/2023 18:01**						
Lead	ND		0.550	5.00	mg/kg						

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51	

Quality Control Results

Metals Total (EPA 6010B)

Analyte	Result		RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0082 - 3050B (Continued)					**Prepared: 04/10/2023 07:57**						
LCS (B3D0082-BS1)					**Analyzed: 04/13/2023 16:30**						
Lead	88.8		5.00	mg/kg	97.1		91.4	75-125			
LCSD (B3D0082-BSD1)					**Analyzed: 04/13/2023 16:34**						
Lead	90.7		5.00	mg/kg	100		90.7	75-125	2.19	15	
Duplicate (B3D0082-DUP1)		**Source: BED0016-57**			**Analyzed: 04/13/2023 16:44**						
Lead	1.71	0.550	5.00	mg/kg		0.625			93.0	20	R, J
Matrix Spike (B3D0082-MS1)		**Source: BED0016-57**			**Analyzed: 04/13/2023 16:47**						
Lead	79.0	0.550	5.00	mg/kg	98.0	0.625	79.9	75-125			
Matrix Spike Dup (B3D0082-MSD1)		**Source: BED0016-57**			**Analyzed: 04/13/2023 16:50**						
Lead	76.7	0.550	5.00	mg/kg	96.2	0.625	79.2	75-125	2.86	15	

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51

Quality Control Results

Metals Total (EPA 7471A)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0083 - 7471A					**Prepared: 04/07/2023 12:01**						
Method Blank (B3D0083-BLK1)					**Analyzed: 04/10/2023 15:24**						
Mercury	ND	0.0180	0.170	mg/kg							

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100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51	

Quality Control Results

Metals Total (EPA 7471A)

Analyte	Result		RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0083 - 7471A (Continued)						**Prepared: 04/07/2023 12:01**					
LCS (B3D0083-BS1)						**Analyzed: 04/11/2023 11:36**					
Mercury	0.761		0.170	mg/kg	0.820		92.8	80-120			
LCSD (B3D0083-BSD1)						**Analyzed: 04/11/2023 11:38**					
Mercury	0.789		0.170	mg/kg	0.820		96.2	80-120	3.57	15	
Duplicate (B3D0083-DUP1)		**Source: BED0016-01**				**Analyzed: 04/10/2023 15:32**					
Mercury	0.0210	0.0180	0.170	mg/kg		0.0233			10.6	15	J
Matrix Spike (B3D0083-MS1)		**Source: BED0016-01**				**Analyzed: 04/10/2023 15:34**					
Mercury	0.800	0.0180	0.170	mg/kg	0.820	0.0233	94.7	75-125			
Matrix Spike Dup (B3D0083-MSD1)		**Source: BED0016-01**				**Analyzed: 04/10/2023 15:36**					
Mercury	0.755	0.0180	0.170	mg/kg	0.769	0.0233	95.1	75-125	5.73	15	

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100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51

Quality Control Results

Polynuclear Aromatic Hydrocarbons (EPA 8270C-SIM)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0135 - 3550B					**Prepared: 04/12/2023 10:43**						
Method Blank (B3D0135-BLK1)					**Analyzed: 04/12/2023 14:22**						
2-Methylnaphthalene	ND	0.00200	0.0125	mg/kg							
Acenaphthene	ND	0.0108	0.0250	mg/kg							
Acenaphthylene	ND	0.00937	0.0250	mg/kg							
Anthracene	ND	0.0112	0.0250	mg/kg							
Benzo(a)anthracene	ND	0.00896	0.0250	mg/kg							
Benzo(a)pyrene	ND	0.0121	0.0250	mg/kg							
Benzo(b)fluoranthene	ND	0.00764	0.0250	mg/kg							
Benzo(g,h,i)perylene	ND	0.0132	0.0250	mg/kg							
Benzo(k)fluoranthene	ND	0.0119	0.0250	mg/kg							
Chrysene	ND	0.00851	0.0250	mg/kg							
Dibenzo(a,h)anthracene	ND	0.0168	0.0250	mg/kg							
Fluoranthene	ND	0.0122	0.0250	mg/kg							
Fluorene	ND	0.0116	0.0250	mg/kg							
Indeno(1,2,3-cd)pyrene	ND	0.0171	0.0250	mg/kg							
Naphthalene	ND	0.00936	0.0250	mg/kg							
Phenanthrene	ND	0.0103	0.0250	mg/kg							
Pyrene	ND	0.00981	0.0250	mg/kg							
Surrogate: p-Terphenyl-D14	*0.0565*			*mg/kg*	*0.100*		*56.5*	*40-130*			

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51	

Quality Control Results

Polynuclear Aromatic Hydrocarbons (EPA 8270C-SIM)

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0135 - 3550B (Continued)				**Prepared: 04/12/2023 10:43**						
LCS (B3D0135-BS1)				**Analyzed: 04/12/2023 13:11**						
2-Methylnaphthalene	0.189	0.0125	mg/kg	0.250		75.6	40-150			
Acenaphthene	0.394	0.0250	mg/kg	0.500		78.7	40-150			
Acenaphthylene	0.714	0.0250	mg/kg	1.00		71.4	40-150			
Anthracene	0.0270	0.0250	mg/kg	0.0500		54.0	40-150			
Benzo(a)anthracene	0.0330	0.0250	mg/kg	0.0500		66.0	40-150			
Benzo(a)pyrene	0.0250	0.0250	mg/kg	0.0500		50.0	40-150			
Benzo(b)fluoranthene	0.0355	0.0250	mg/kg	0.100		35.5	40-150			BS
Benzo(g,h,i)perylene	0.0500	0.0250	mg/kg	0.100		50.0	40-150			
Benzo(k)fluoranthene	0.0270	0.0250	mg/kg	0.0500		54.0	40-150			
Chrysene	0.0430	0.0250	mg/kg	0.0500		86.0	40-150			
Dibenzo(a,h)anthracene	0.0515	0.0250	mg/kg	0.100		51.5	40-150			
Fluoranthene	0.0720	0.0250	mg/kg	0.100		72.0	40-150			
Fluorene	0.0760	0.0250	mg/kg	0.100		76.0	40-150			
Indeno(1,2,3-cd)pyrene	0.0205	0.0250	mg/kg	0.0500		41.0	40-150			
Naphthalene	0.361	0.0250	mg/kg	0.500		72.2	40-150			
Phenanthrene	0.0330	0.0250	mg/kg	0.0500		66.0	40-150			
Pyrene	0.0465	0.0250	mg/kg	0.0500		93.0	40-150			
Surrogate: p-Terphenyl-D14	*0.0480*		*mg/kg*	*0.100*		*48.0*	*40-150*			
LCSD (B3D0135-BSD1)				**Analyzed: 04/12/2023 13:46**						
2-Methylnaphthalene	0.190	0.0125	mg/kg	0.250		76.0	40-150	0.528	30	
Acenaphthene	0.403	0.0250	mg/kg	0.500		80.6	40-150	2.39	30	
Acenaphthylene	0.749	0.0250	mg/kg	1.00		74.9	40-150	4.78	30	
Anthracene	0.0335	0.0250	mg/kg	0.0500		67.0	40-150	21.5	30	
Benzo(a)anthracene	0.0315	0.0250	mg/kg	0.0500		63.0	40-150	4.65	30	
Benzo(a)pyrene	0.0250	0.0250	mg/kg	0.0500		50.0	40-150	0.00	30	
Benzo(b)fluoranthene	0.0395	0.0250	mg/kg	0.100		39.5	40-150	10.7	30	BS
Benzo(g,h,i)perylene	0.0490	0.0250	mg/kg	0.100		49.0	40-150	2.02	30	
Benzo(k)fluoranthene	0.0365	0.0250	mg/kg	0.0500		73.0	40-150	29.9	30	
Chrysene	0.0470	0.0250	mg/kg	0.0500		94.0	40-150	8.89	30	
Dibenzo(a,h)anthracene	0.0470	0.0250	mg/kg	0.100		47.0	40-150	9.14	30	
Fluoranthene	0.0720	0.0250	mg/kg	0.100		72.0	40-150	0.00	30	
Fluorene	0.0780	0.0250	mg/kg	0.100		78.0	40-150	2.60	30	
Indeno(1,2,3-cd)pyrene	0.0260	0.0250	mg/kg	0.0500		52.0	40-150	23.7	30	
Naphthalene	0.376	0.0250	mg/kg	0.500		75.3	40-150	4.20	30	
Phenanthrene	0.0330	0.0250	mg/kg	0.0500		66.0	40-150	0.00	30	
Pyrene	0.0470	0.0250	mg/kg	0.0500		94.0	40-150	1.07	30	
Surrogate: p-Terphenyl-D14	*0.0505*		*mg/kg*	*0.100*		*50.5*	*40-150*			

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51

Quality Control Results

Polynuclear Aromatic Hydrocarbons (EPA 8270C-SIM)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0135 - 3550B (Continued)					**Prepared: 04/12/2023 10:43**						
Matrix Spike (B3D0135-MS1)		**Source: BED0016-01**			**Analyzed: 04/12/2023 19:01**						
2-Methylnaphthalene	0.276	0.00200	0.0125	mg/kg	0.250	ND	110	40-150			
Acenaphthene	0.567	0.0108	0.0250	mg/kg	0.500	ND	113	40-150			
Acenaphthylene	1.06	0.00937	0.0250	mg/kg	1.00	ND	106	40-150			
Anthracene	0.0410	0.0112	0.0250	mg/kg	0.0500	ND	82.0	40-150			
Benzo(a)anthracene	0.0470	0.00896	0.0250	mg/kg	0.0500	ND	94.0	40-150			
Benzo(a)pyrene	0.0325	0.0121	0.0250	mg/kg	0.0500	ND	65.0	40-150			
Benzo(b)fluoranthene	0.0700	0.00764	0.0250	mg/kg	0.100	ND	70.0	40-150			
Benzo(g,h,i)perylene	0.0775	0.0132	0.0250	mg/kg	0.100	ND	77.5	40-150			
Benzo(k)fluoranthene	0.0480	0.0119	0.0250	mg/kg	0.0500	ND	96.0	40-150			
Chrysene	0.0620	0.00851	0.0250	mg/kg	0.0500	ND	124	40-150			
Dibenzo(a,h)anthracene	0.0590	0.0168	0.0250	mg/kg	0.100	ND	59.0	40-150			
Fluoranthene	0.106	0.0121	0.0250	mg/kg	0.100	ND	106	40-150			
Fluorene	0.111	0.0115	0.0250	mg/kg	0.100	ND	112	40-150			
Indeno(1,2,3-cd)pyrene	0.0385	0.0171	0.0250	mg/kg	0.0500	ND	77.0	40-150			
Naphthalene	0.513	0.00936	0.0250	mg/kg	0.500	ND	103	40-150			
Phenanthrene	0.0460	0.0103	0.0250	mg/kg	0.0500	ND	92.0	40-150			
Pyrene	0.0625	0.00981	0.0250	mg/kg	0.0500	ND	125	40-150			
Surrogate: p-Terphenyl-D14	*0.0490*			*mg/kg*	*0.100*		*49.0*	*40-150*			
Matrix Spike Dup (B3D0135-MSD1)		**Source: BED0016-01**			**Analyzed: 04/12/2023 19:36**						
2-Methylnaphthalene	0.260	0.00200	0.0125	mg/kg	0.250	ND	104	40-150	NA	30	
Acenaphthene	0.534	0.0108	0.0250	mg/kg	0.499	ND	107	40-150	NA	30	
Acenaphthylene	0.987	0.00936	0.0250	mg/kg	0.999	ND	98.9	40-150	NA	30	
Anthracene	0.0374	0.0112	0.0250	mg/kg	0.0499	ND	75.0	40-150	NA	30	
Benzo(a)anthracene	0.0479	0.00895	0.0250	mg/kg	0.0499	ND	96.0	40-150	NA	30	
Benzo(a)pyrene	0.0339	0.0121	0.0250	mg/kg	0.0499	ND	68.0	40-150	NA	30	
Benzo(b)fluoranthene	0.0729	0.00763	0.0250	mg/kg	0.0999	ND	73.0	40-150	NA	30	
Benzo(g,h,i)perylene	0.0759	0.0132	0.0250	mg/kg	0.0999	ND	76.0	40-150	NA	30	
Benzo(k)fluoranthene	0.0434	0.0119	0.0250	mg/kg	0.0499	ND	87.0	40-150	NA	30	
Chrysene	0.0589	0.00850	0.0250	mg/kg	0.0499	ND	118	40-150	NA	30	
Dibenzo(a,h)anthracene	0.0549	0.0168	0.0250	mg/kg	0.0999	ND	55.0	40-150	NA	30	
Fluoranthene	0.101	0.0121	0.0250	mg/kg	0.0999	ND	102	40-150	NA	30	
Fluorene	0.105	0.0115	0.0250	mg/kg	0.0999	ND	105	40-150	NA	30	
Indeno(1,2,3-cd)pyrene	0.0359	0.0170	0.0250	mg/kg	0.0499	ND	72.0	40-150	NA	30	
Naphthalene	0.480	0.00935	0.0250	mg/kg	0.499	ND	96.1	40-150	NA	30	
Phenanthrene	0.0454	0.0103	0.0250	mg/kg	0.0499	ND	91.0	40-150	NA	30	
Pyrene	0.0604	0.00980	0.0250	mg/kg	0.0499	ND	121	40-150	NA	30	
Surrogate: p-Terphenyl-D14	*0.0469*			*mg/kg*	*0.0999*		*47.0*	*40-150*			

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AMERICAN ENVIRONMENTAL TESTING LABORATORY, LLC
2840 North Naomi Street, Burbank, CA 91504 • ELAP# 1541 • LACSD# 10181
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A KYZER LABS COMPANY

Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51

Quality Control Results

Organochlorine Pesticides (EPA 8081A)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0149 - 3550B					**Prepared: 04/12/2023 12:54**						
Method Blank (B3D0149-BLK1)					**Analyzed: 04/12/2023 15:58**						
Aldrin	ND	0.0900	1.00	ug/kg							
alpha-Chlordane	ND	0.121	1.00	ug/kg							
gamma-Chlordane	ND	0.114	1.00	ug/kg							
Chlordane (Total)	ND	1.00	2.00	ug/kg							
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	ND	0.0620	1.00	ug/kg							
alpha-Hexachlorocyclohexane (Alpha-BHC)	ND	0.0710	1.00	ug/kg							
beta-Hexachlorocyclohexane (Betta-BHC)	ND	0.217	1.00	ug/kg							
delta-Hexachlorocyclohexane (Delta-BHC)	ND	0.0880	1.00	ug/kg							
4,4'-DDD (DDD)	ND	0.0980	1.00	ug/kg							
4,4'-DDE (DDE)	ND	0.0930	1.00	ug/kg							
4,4'-DDT (DDT)	ND	0.235	1.00	ug/kg							
Dieldrin	ND	0.0950	1.00	ug/kg							
Endrin	ND	0.106	1.00	ug/kg							
Endrin aldehyde	ND	0.117	1.00	ug/kg							
Endrin ketone	ND	0.122	1.00	ug/kg							
Endosulfan 1	ND	0.115	1.00	ug/kg							
Endosulfan 11	ND	0.177	1.00	ug/kg							
Endosulfan sulfate	ND	0.0470	1.00	ug/kg							
Heptachlor	ND	0.206	1.00	ug/kg							
Heptachlor epoxide	ND	0.101	1.00	ug/kg							
Methoxychlor	ND	0.310	1.00	ug/kg							
Toxaphene	ND	4.10	50.0	ug/kg							
Surrogate: Decachlorobiphenyl	*24.6*			*ug/kg*	*25.0*		*98.3*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*18.4*			*ug/kg*	*25.0*		*73.7*	*30-150*			

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51

Quality Control Results

Organochlorine Pesticides (EPA 8081A)

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0149 - 3550B (Continued)				**Prepared: 04/12/2023 12:54**						
LCS (B3D0149-BS1)				**Analyzed: 04/12/2023 13:42**						
Aldrin	21.3	1.00	ug/kg	25.0		85.4	50-150			
alpha-Chlordane	26.6	1.00	ug/kg	25.0		106	50-150			
gamma-Chlordane	29.2	1.00	ug/kg	25.0		117	50-150			
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	24.9	1.00	ug/kg	25.0		99.7	50-150			
alpha-Hexachlorocyclohexane (Alpha-BHC)	23.3	1.00	ug/kg	25.0		93.2	50-150			
beta-Hexachlorocyclohexane (Betta-BHC)	28.2	1.00	ug/kg	25.0		113	50-150			
delta-Hexachlorocyclohexane (Delta-BHC)	29.1	1.00	ug/kg	25.0		116	50-150			
4,4'-DDD (DDD)	32.6	1.00	ug/kg	25.0		130	50-150			
4,4'-DDE (DDE)	30.0	1.00	ug/kg	25.0		120	50-150			
4,4'-DDT (DDT)	35.6	1.00	ug/kg	25.0		142	50-150			
Dieldrin	27.7	1.00	ug/kg	25.0		111	50-150			
Endrin	25.7	1.00	ug/kg	25.0		103	50-150			
Endrin aldehyde	22.7	1.00	ug/kg	25.0		90.8	50-150			
Endrin ketone	28.6	1.00	ug/kg	25.0		115	50-150			
Endosulfan 1	24.9	1.00	ug/kg	25.0		99.8	50-150			
Endosulfan 11	25.5	1.00	ug/kg	25.0		102	50-150			
Endosulfan sulfate	27.5	1.00	ug/kg	25.0		110	50-150			
Heptachlor	28.1	1.00	ug/kg	25.0		112	50-150			
Heptachlor epoxide	26.0	1.00	ug/kg	25.0		104	50-150			
Methoxychlor	34.4	1.00	ug/kg	25.0		138	50-150			
Surrogate: Decachlorobiphenyl	*25.4*		*ug/kg*	*25.0*		*101*	*50-150*			
Surrogate: Tetrachloro-m-xylene	*13.4*		*ug/kg*	*25.0*		*53.6*	*50-150*			
LCS (B3D0149-BS2)				**Analyzed: 04/12/2023 14:50**						
Toxaphene	537	50.0	ug/kg	500		107	50-150			
Surrogate: Decachlorobiphenyl	*35.6*		*ug/kg*	*25.0*		*142*	*50-150*			
Surrogate: Tetrachloro-m-xylene	*35.4*		*ug/kg*	*25.0*		*142*	*50-150*			

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51	

Quality Control Results

Organochlorine Pesticides (EPA 8081A)

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0149 - 3550B (Continued)				**Prepared: 04/12/2023 12:54**						
LCSD (B3D0149-BSD1)				**Analyzed: 04/12/2023 13:59**						
Aldrin	17.3	1.00	ug/kg	25.0		69.1	50-150	21.0	40	
alpha-Chlordane	23.7	1.00	ug/kg	25.0		95.0	50-150	11.4	40	
gamma-Chlordane	26.3	1.00	ug/kg	25.0		105	50-150	10.5	40	
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	20.4	1.00	ug/kg	25.0		81.7	50-150	19.8	40	
alpha-Hexachlorocyclohexane (Alpha-BHC)	17.9	1.00	ug/kg	25.0		71.7	50-150	26.0	40	
beta-Hexachlorocyclohexane (Betta-BHC)	23.5	1.00	ug/kg	25.0		94.1	50-150	17.9	40	
delta-Hexachlorocyclohexane (Delta-BHC)	25.6	1.00	ug/kg	25.0		102	50-150	12.7	40	
4,4'-DDD (DDD)	29.5	1.00	ug/kg	25.0		118	50-150	9.96	40	
4,4'-DDE (DDE)	26.9	1.00	ug/kg	25.0		107	50-150	11.2	40	
4,4'-DDT (DDT)	32.2	1.00	ug/kg	25.0		129	50-150	9.92	40	
Dieldrin	25.0	1.00	ug/kg	25.0		99.9	50-150	10.4	40	
Endrin	20.8	1.00	ug/kg	25.0		83.1	50-150	21.4	40	
Endrin aldehyde	20.7	1.00	ug/kg	25.0		82.6	50-150	9.46	40	
Endrin ketone	27.0	1.00	ug/kg	25.0		108	50-150	5.88	40	
Endosulfan 1	22.6	1.00	ug/kg	25.0		90.3	50-150	10.0	40	
Endosulfan 11	23.2	1.00	ug/kg	25.0		92.7	50-150	9.40	40	
Endosulfan sulfate	25.5	1.00	ug/kg	25.0		102	50-150	7.86	40	
Heptachlor	23.7	1.00	ug/kg	25.0		94.9	50-150	16.8	40	
Heptachlor epoxide	23.0	1.00	ug/kg	25.0		91.9	50-150	12.3	40	
Methoxychlor	30.8	1.00	ug/kg	25.0		123	50-150	10.9	40	
Surrogate: Decachlorobiphenyl	*23.1*		*ug/kg*	*25.0*		*92.5*	*50-150*			
Surrogate: Tetrachloro-m-xylene	*12.6*		*ug/kg*	*25.0*		*50.2*	*50-150*			
LCSD (B3D0149-BSD2)				**Analyzed: 04/12/2023 15:07**						
Toxaphene	532	50.0	ug/kg	500		106	50-150	0.935	40	
Surrogate: Decachlorobiphenyl	*36.9*		*ug/kg*	*25.0*		*147*	*50-150*			
Surrogate: Tetrachloro-m-xylene	*36.0*		*ug/kg*	*25.0*		*144*	*50-150*			

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51

Quality Control Results

Organochlorine Pesticides (EPA 8081A)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0149 - 3550B (Continued)					**Prepared: 04/12/2023 12:54**						
Matrix Spike (B3D0149-MS1)		**Source: BED0016-01**			**Analyzed: 04/12/2023 14:16**						
Aldrin	18.8	0.0900	1.00	ug/kg	25.0	ND	75.4	40-150			
alpha-Chlordane	21.2	0.121	1.00	ug/kg	25.0	0.477	83.1	40-150			
gamma-Chlordane	24.3	0.114	1.00	ug/kg	25.0	0.348	96.0	40-150			
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	19.0	0.0620	1.00	ug/kg	25.0	ND	76.0	40-150			
alpha-Hexachlorocyclohexane (Alpha-BHC)	20.6	0.0710	1.00	ug/kg	25.0	ND	82.6	40-150			
beta-Hexachlorocyclohexane (Betta-BHC)	21.7	0.217	1.00	ug/kg	25.0	ND	87.0	40-150			
delta-Hexachlorocyclohexane (Delta-BHC)	22.7	0.0880	1.00	ug/kg	25.0	ND	90.9	40-150			
4,4'-DDD (DDD)	25.5	0.0980	1.00	ug/kg	25.0	ND	102	40-150			
4,4'-DDE (DDE)	23.6	0.0930	1.00	ug/kg	25.0	ND	94.5	40-150			
4,4'-DDT (DDT)	30.6	0.235	1.00	ug/kg	25.0	ND	122	40-150			
Dieldrin	21.3	0.0950	1.00	ug/kg	25.0	ND	85.2	40-150			
Endrin	19.6	0.106	1.00	ug/kg	25.0	ND	78.6	40-150			
Endrin aldehyde	18.0	0.117	1.00	ug/kg	25.0	ND	72.2	40-150			
Endrin ketone	23.6	0.122	1.00	ug/kg	25.0	ND	94.4	40-150			
Endosulfan 1	19.5	0.115	1.00	ug/kg	25.0	ND	78.1	40-150			
Endosulfan 11	20.6	0.177	1.00	ug/kg	25.0	ND	82.5	40-150			
Endosulfan sulfate	22.7	0.0470	1.00	ug/kg	25.0	ND	90.8	40-150			
Heptachlor	22.6	0.206	1.00	ug/kg	25.0	ND	90.4	40-150			
Heptachlor epoxide	20.2	0.101	1.00	ug/kg	25.0	0.122	80.3	40-150			
Methoxychlor	30.9	0.310	1.00	ug/kg	25.0	ND	124	40-150			
Surrogate: Decachlorobiphenyl	*24.3*			*ug/kg*	*25.0*		*97.3*	*40-150*			
Surrogate: Tetrachloro-m-xylene	*13.9*			*ug/kg*	*25.0*		*55.6*	*40-150*			
Matrix Spike (B3D0149-MS2)		**Source: BED0016-01**			**Analyzed: 04/12/2023 15:24**						
Toxaphene	451	4.10	50.0	ug/kg	500	ND	90.2	40-150			
Surrogate: Decachlorobiphenyl	*34.1*			*ug/kg*	*25.0*		*136*	*40-150*			
Surrogate: Tetrachloro-m-xylene	*25.0*			*ug/kg*	*25.0*		*100*	*40-150*			

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51

Quality Control Results

Organochlorine Pesticides (EPA 8081A)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0149 - 3550B (Continued)					**Prepared: 04/12/2023 12:54**						
Matrix Spike Dup (B3D0149-MSD1)		**Source: BED0016-01**			**Analyzed: 04/12/2023 14:33**						
Aldrin	18.0	0.0900	1.00	ug/kg	25.0	ND	72.1	40-150	NA	40	
alpha-Chlordane	20.2	0.121	1.00	ug/kg	25.0	0.477	78.9	40-150	5.06	40	
gamma-Chlordane	23.2	0.114	1.00	ug/kg	25.0	0.348	91.4	40-150	4.86	40	
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	18.3	0.0620	1.00	ug/kg	25.0	ND	73.1	40-150	NA	40	
alpha-Hexachlorocyclohexane (Alpha-BHC)	19.8	0.0710	1.00	ug/kg	25.0	ND	79.4	40-150	NA	40	
beta-Hexachlorocyclohexane (Betta-BHC)	20.6	0.217	1.00	ug/kg	25.0	ND	82.5	40-150	NA	40	
delta-Hexachlorocyclohexane (Delta-BHC)	21.6	0.0880	1.00	ug/kg	25.0	ND	86.5	40-150	NA	40	
4,4'-DDD (DDD)	24.3	0.0980	1.00	ug/kg	25.0	ND	97.1	40-150	NA	40	
4,4'-DDE (DDE)	22.7	0.0930	1.00	ug/kg	25.0	ND	90.7	40-150	NA	40	
4,4'-DDT (DDT)	29.2	0.235	1.00	ug/kg	25.0	ND	117	40-150	NA	40	
Dieldrin	20.6	0.0950	1.00	ug/kg	25.0	ND	82.3	40-150	NA	40	
Endrin	19.0	0.106	1.00	ug/kg	25.0	ND	75.9	40-150	NA	40	
Endrin aldehyde	17.3	0.117	1.00	ug/kg	25.0	ND	69.1	40-150	NA	40	
Endrin ketone	22.1	0.122	1.00	ug/kg	25.0	ND	88.6	40-150	NA	40	
Endosulfan 1	18.9	0.115	1.00	ug/kg	25.0	ND	75.5	40-150	NA	40	
Endosulfan 11	19.8	0.177	1.00	ug/kg	25.0	ND	79.1	40-150	NA	40	
Endosulfan sulfate	21.5	0.0470	1.00	ug/kg	25.0	ND	86.1	40-150	NA	40	
Heptachlor	21.8	0.206	1.00	ug/kg	25.0	ND	87.0	40-150	NA	40	
Heptachlor epoxide	19.4	0.101	1.00	ug/kg	25.0	0.122	77.1	40-150	4.00	40	
Methoxychlor	29.1	0.310	1.00	ug/kg	25.0	ND	116	40-150	NA	40	
Surrogate: Decachlorobiphenyl	*22.7*			*ug/kg*	*25.0*		*91.0*	*40-150*			
Surrogate: Tetrachloro-m-xylene	*13.0*			*ug/kg*	*25.0*		*52.1*	*40-150*			
Matrix Spike Dup (B3D0149-MSD2)		**Source: BED0016-01**			**Analyzed: 04/13/2023 08:47**						
Toxaphene	475	4.10	50.0	ug/kg	500	ND	95.0	40-150	NA	40	
Surrogate: Decachlorobiphenyl	*34.5*			*ug/kg*	*25.0*		*138*	*40-150*			
Surrogate: Tetrachloro-m-xylene	*27.8*			*ug/kg*	*25.0*		*111*	*40-150*			

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Telephone (888) 288-AETL • (818) 845-8200 • www.aetlab.com
A KYZER LABS COMPANY

Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51

Quality Control Results

Organochlorine Pesticides (EPA 8081A)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0155 - 3550B					**Prepared: 04/13/2023 08:07**						
Method Blank (B3D0155-BLK1)					**Analyzed: 04/13/2023 10:29**						
Aldrin	ND	0.0900	1.00	ug/kg							
alpha-Chlordane	ND	0.121	1.00	ug/kg							
gamma-Chlordane	ND	0.114	1.00	ug/kg							
Chlordane (Total)	ND	1.00	2.00	ug/kg							
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	ND	0.0620	1.00	ug/kg							
alpha-Hexachlorocyclohexane (Alpha-BHC)	ND	0.0710	1.00	ug/kg							
beta-Hexachlorocyclohexane (Betta-BHC)	ND	0.217	1.00	ug/kg							
delta-Hexachlorocyclohexane (Delta-BHC)	ND	0.0880	1.00	ug/kg							
4,4'-DDD (DDD)	ND	0.0980	1.00	ug/kg							
4,4'-DDE (DDE)	ND	0.0930	1.00	ug/kg							
4,4'-DDT (DDT)	ND	0.235	1.00	ug/kg							
Dieldrin	ND	0.0950	1.00	ug/kg							
Endrin	ND	0.106	1.00	ug/kg							
Endrin aldehyde	ND	0.117	1.00	ug/kg							
Endrin ketone	ND	0.122	1.00	ug/kg							
Endosulfan 1	ND	0.115	1.00	ug/kg							
Endosulfan 11	ND	0.177	1.00	ug/kg							
Endosulfan sulfate	ND	0.0470	1.00	ug/kg							
Heptachlor	ND	0.206	1.00	ug/kg							
Heptachlor epoxide	ND	0.101	1.00	ug/kg							
Methoxychlor	ND	0.310	1.00	ug/kg							
Toxaphene	ND	4.10	50.0	ug/kg							
Surrogate: Decachlorobiphenyl	*27.5*			*ug/kg*	*25.0*		*110*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*19.1*			*ug/kg*	*25.0*		*76.5*	*30-150*			

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A KYZER LABS COMPANY

Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51	

Quality Control Results

Organochlorine Pesticides (EPA 8081A)

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0155 - 3550B (Continued)				**Prepared: 04/13/2023 08:07**						
LCS (B3D0155-BS1)				**Analyzed: 04/13/2023 09:21**						
Aldrin	22.5	1.00	ug/kg	25.0		89.9	50-150			
alpha-Chlordane	28.9	1.00	ug/kg	25.0		116	50-150			
gamma-Chlordane	31.3	1.00	ug/kg	25.0		125	50-150			
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	25.8	1.00	ug/kg	25.0		103	50-150			
alpha-Hexachlorocyclohexane (Alpha-BHC)	24.4	1.00	ug/kg	25.0		97.8	50-150			
beta-Hexachlorocyclohexane (Betta-BHC)	30.4	1.00	ug/kg	25.0		122	50-150			
delta-Hexachlorocyclohexane (Delta-BHC)	31.8	1.00	ug/kg	25.0		127	50-150			
4,4'-DDD (DDD)	35.2	1.00	ug/kg	25.0		141	50-150			
4,4'-DDE (DDE)	32.4	1.00	ug/kg	25.0		130	50-150			
4,4'-DDT (DDT)	37.1	1.00	ug/kg	25.0		149	50-150			
Dieldrin	27.5	1.00	ug/kg	25.0		110	50-150			
Endrin	27.0	1.00	ug/kg	25.0		108	50-150			
Endrin aldehyde	27.1	1.00	ug/kg	25.0		109	50-150			
Endrin ketone	35.3	1.00	ug/kg	25.0		141	50-150			
Endosulfan 1	26.8	1.00	ug/kg	25.0		107	50-150			
Endosulfan 11	29.1	1.00	ug/kg	25.0		116	50-150			
Endosulfan sulfate	33.2	1.00	ug/kg	25.0		133	50-150			
Heptachlor	30.2	1.00	ug/kg	25.0		121	50-150			
Heptachlor epoxide	27.9	1.00	ug/kg	25.0		112	50-150			
Methoxychlor	34.8	1.00	ug/kg	25.0		139	50-150			
Surrogate: Decachlorobiphenyl	*32.5*		*ug/kg*	*25.0*		*130*	*50-150*			
Surrogate: Tetrachloro-m-xylene	*13.2*		*ug/kg*	*25.0*		*52.7*	*50-150*			
LCS (B3D0155-BS2)				**Analyzed: 04/13/2023 11:38**						
Toxaphene	582	50.0	ug/kg	500		116	50-150			
Surrogate: Decachlorobiphenyl	*28.6*		*ug/kg*	*25.0*		*114*	*50-150*			
Surrogate: Tetrachloro-m-xylene	*36.8*		*ug/kg*	*25.0*		*147*	*50-150*			

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51	

Quality Control Results

Organochlorine Pesticides (EPA 8081A)

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0155 - 3550B (Continued)				**Prepared: 04/13/2023 08:07**						
LCSD (B3D0155-BSD1)				**Analyzed: 04/13/2023 09:38**						
Aldrin	16.7	1.00	ug/kg	25.0		66.9	50-150	29.4	40	
alpha-Chlordane	23.1	1.00	ug/kg	25.0		92.4	50-150	22.4	40	
gamma-Chlordane	25.7	1.00	ug/kg	25.0		103	50-150	19.7	40	
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	19.3	1.00	ug/kg	25.0		77.0	50-150	29.1	40	
alpha-Hexachlorocyclohexane (Alpha-BHC)	16.7	1.00	ug/kg	25.0		66.7	50-150	37.8	40	
beta-Hexachlorocyclohexane (Betta-BHC)	22.2	1.00	ug/kg	25.0		88.9	50-150	31.1	40	
delta-Hexachlorocyclohexane (Delta-BHC)	24.5	1.00	ug/kg	25.0		98.0	50-150	25.9	40	
4,4'-DDD (DDD)	27.6	1.00	ug/kg	25.0		111	50-150	24.0	40	
4,4'-DDE (DDE)	27.0	1.00	ug/kg	25.0		108	50-150	18.2	40	
4,4'-DDT (DDT)	28.5	1.00	ug/kg	25.0		114	50-150	26.4	40	
Dieldrin	24.7	1.00	ug/kg	25.0		98.7	50-150	10.9	40	
Endrin	20.0	1.00	ug/kg	25.0		80.1	50-150	29.6	40	
Endrin aldehyde	21.6	1.00	ug/kg	25.0		86.3	50-150	22.9	40	
Endrin ketone	28.7	1.00	ug/kg	25.0		115	50-150	20.8	40	
Endosulfan 1	22.0	1.00	ug/kg	25.0		88.1	50-150	19.6	40	
Endosulfan 11	23.3	1.00	ug/kg	25.0		93.4	50-150	22.0	40	
Endosulfan sulfate	26.4	1.00	ug/kg	25.0		106	50-150	22.8	40	
Heptachlor	23.0	1.00	ug/kg	25.0		92.1	50-150	27.1	40	
Heptachlor epoxide	22.7	1.00	ug/kg	25.0		90.7	50-150	20.9	40	
Methoxychlor	27.9	1.00	ug/kg	25.0		111	50-150	22.3	40	
Surrogate: Decachlorobiphenyl	*24.5*		*ug/kg*	*25.0*		*97.8*	*50-150*			
Surrogate: Tetrachloro-m-xylene	*11.9*		*ug/kg*	*25.0*		*47.6*	*50-150*			*S6*
LCSD (B3D0155-BSD2)				**Analyzed: 04/13/2023 10:12**						
Toxaphene	514	50.0	ug/kg	500		103	50-150	12.5	40	
Surrogate: Decachlorobiphenyl	*29.8*		*ug/kg*	*25.0*		*119*	*50-150*			
Surrogate: Tetrachloro-m-xylene	*36.8*		*ug/kg*	*25.0*		*147*	*50-150*			

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A KYZER LABS COMPANY

Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51

Quality Control Results

PCBs (EPA 8082)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0140 - 3550B					**Prepared: 04/12/2023 11:05**						
Method Blank (B3D0140-BLK1)					**Analyzed: 04/12/2023 14:57**						
Aroclor-1016 (PCB-1016)	ND	11.6	25.0	ug/kg							
Aroclor-1221 (PCB-1221)	ND	8.11	25.0	ug/kg							
Aroclor-1232 (PCB-1232)	ND	15.2	25.0	ug/kg							
Aroclor-1242 (PCB-1242)	ND	5.25	25.0	ug/kg							
Aroclor-1248 (PCB-1248)	ND	11.0	25.0	ug/kg							
Aroclor-1254 (PCB-1254)	ND	11.9	25.0	ug/kg							
Aroclor-1260 (PCB-1260)	ND	6.02	25.0	ug/kg							
Aroclor-1262 (PCB-1262)	ND	20.0	50.0	ug/kg							
Aroclor-1268 (PCB-1268)	ND	20.0	50.0	ug/kg							
Surrogate: Decachlorobiphenyl	*31.0*			*ug/kg*	*25.0*		*124*	*50-150*			
Surrogate: Tetrachloro-m-xylene	*9.83*			*ug/kg*	*25.0*		*39.3*	*50-150*			*S6*

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51	

Quality Control Results

PCBs (EPA 8082)

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0140 - 3550B (Continued)				**Prepared: 04/12/2023 11:05**						
LCS (B3D0140-BS1)				**Analyzed: 04/12/2023 14:18**						
Aroclor-1016 (PCB-1016)	280	25.0	ug/kg	250		112	40.3-151			
Aroclor-1260 (PCB-1260)	303	25.0	ug/kg	250		121	39.4-151			
Surrogate: Decachlorobiphenyl	*32.6*		*ug/kg*	*25.0*		*131*	*50-150*			
Surrogate: Tetrachloro-m-xylene	*25.8*		*ug/kg*	*25.0*		*103*	*50-150*			
LCSD (B3D0140-BSD1)				**Analyzed: 04/12/2023 14:38**						
Aroclor-1016 (PCB-1016)	251	25.0	ug/kg	250		100	40.3-151	10.7	30	
Aroclor-1260 (PCB-1260)	295	25.0	ug/kg	250		118	39.4-151	2.76	30	
Surrogate: Decachlorobiphenyl	*31.5*		*ug/kg*	*25.0*		*126*	*50-150*			
Surrogate: Tetrachloro-m-xylene	*26.3*		*ug/kg*	*25.0*		*105*	*50-150*			
Matrix Spike (B3D0140-MS1)	**Source: BED0016-01**			**Analyzed: 04/12/2023 21:21**						
Aroclor-1016 (PCB-1016)	153	11.6	25.0 ug/kg	250	ND	61.3	40.3-151			
Aroclor-1260 (PCB-1260)	207	6.02	25.0 ug/kg	250	ND	82.7	39.4-151			
Surrogate: Decachlorobiphenyl	*24.2*		*ug/kg*	*25.0*		*96.8*	*50-150*			
Surrogate: Tetrachloro-m-xylene	*21.6*		*ug/kg*	*25.0*		*86.3*	*50-150*			
Matrix Spike Dup (B3D0140-MSD1)	**Source: BED0016-01**			**Analyzed: 04/12/2023 21:40**						
Aroclor-1016 (PCB-1016)	146	11.6	25.0 ug/kg	250	ND	58.5	40.3-151	NA	30	
Aroclor-1260 (PCB-1260)	244	6.02	25.0 ug/kg	250	ND	97.7	39.4-151	NA	30	
Surrogate: Decachlorobiphenyl	*21.7*		*ug/kg*	*25.0*		*86.6*	*50-150*			
Surrogate: Tetrachloro-m-xylene	*0.286*		*ug/kg*	*25.0*		*1.14*	*50-150*			*S6*

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51

Qualifiers and Definitions

Item	Qualifiers
BS	The recovery of this analyte in LCS and/or LCSD was outside control limit. Sample was accepted based on the remaining LCSand/or LCSD.
D	Sample was analyzed under dilution due to matrix interference.
DIL	Result for the compound reported from diluted analysis.
J	Analyte was detected. However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Reporting Limit (RL).
R	The RPD was outside of QC acceptance limits due to possible matrix interference.
S6	Surrogate recovery is outside control limits due to matrix interference.

Item	Definitions
% wt	Percent Weight
%REC	Percent Recovery
°F	Degrees Fahrenheit
AETL	American Environmental Testing Laboratory, LLC
C	Carbon
CARB	California Air Resources Board
COC	Chain of Custody
Cresols	3-methylphenol/4-methylphenol coelute and cannot be chromatographically separated. Due to this coeluting isomer pair phenomenon, the laboratory uses a single cresol (4-methylphenol) as calibration standard for 3-methylphenol/4-methylphenol.
CRM	Certified Reference Material
DPD	Department of Planning and Development
DRO	Diesel Range Organics
Dup	Duplicate
ELAP	Environmental Laboratory Accreditation Program
EPA	Environmental Protection Agency
GC/FID	Gas Chromatography Flame Ionization Detection
GRO	Gasoline Range Organics
HC	Hydrocarbon
HEM	Hexane Extractable Material
HMU	Hazardous Material Unit
ICP/MS	Inductively Coupled Plasma Mass Spectrometry
LACSD	Los Angeles County Sanitation Districts
LCS	Laboratory Control Sample - A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes.
LCSD	Laboratory Control Sample Duplicate - A replicate of Laboratory Control Sample.
LOQ	Limit of Quantitation
MDL	Method Detection Limit - The minimum measured concentration of a substance that can be reported with 99% confidence. MDL is statistically derived number which is specific for each instrument, each method and each compound.

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100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/14/2023 10:51

mg/kg	Miligrams per Kilogram
mg/L	Miligrams per Liter
ml/L/hr	Milliliter per Liter per Hour
MRO	Motor oil Range Organics
MS	Matrix Spike - A sample prepared, taken through all sample preparation and analytical steps of the procedure and analyzed as an independent test results.
MSD	Matrix Spike Duplicate - A replicate of Matrix Spike Sample.
N	No
ND	Analyte is not detected below Method Detection Limit.
ng/m3	Nanograms per cubic meter
NIOSH	National Institute for Occupational Safety and Health
nL/L	Nanoliters per Liter
NTU	Nephelometric Turbidity Units
Ohm-cm	Ohms per centimeter
ORO	Oil Range Organics
OSHA	Occupational Safety and Health Administration
PCB	Polychlorinated Biphenyl
PSU	Practical Salinity Unit
RL	Reporting Limit - The lowest concentration at which an analyte can be detected in a sample and its concentration can be reported with a specified degree of confidence, accuracy and precision. For usage at AETL, RL is equivalant to LOQ.
RPD	Relative Percent Difference
SIM	Selective Ion Monitoring
SM	Standard Method
SPLP	Synthetic Precipitation Leaching Procedure
STLC	Soluble Threshold Limit Concentration
TCLP	Toxicity Characteristic Leaching Procedure
TPH	Total Petroleum Hydrocarbons
TTLC	Total Threshold Limit Concentrations
ug/kg	Micrograms per Kilogram
ug/L	Micrograms per Liter
ug/m3	Micrograms per cubic meter
WET	Waste Extraction Test
Y	Yes
ZHE	Zero Headspace Extraction

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AIH LABORATORY
2556 W Woodland Dr Anaheim, CA 92801

BULK ASBESTOS FIBER ANALYSIS
BY POLARIZED LIGHT MICROSCOPY

NVLAP TESTING
NVLAP LAB CODE 500079-0
Phone:(562) 860-2201
www.aihlab.com

Client Name: American Environmental Testing Laboratory
Project Manager: Joe Sevrean
Client Address: 2840 North Naomi Street Burbank, CA 91504
Project Number: BED0016/ SMPL-352623
Project Location: No Information Provided

Lab Batch Number: 2307666
Samples Submitted: 7
Samples Analyzed: 7
Analysis Method: EPA 600/R-93-116 & EPA 600/M4-82-020

Lab ID: 230766601 **Client ID:** BED0016-01

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Brown soil sandy material	**None Detected**	Cellulose <1%	Binder/Filler, Mineral Grains

Lab ID: 230766602 **Client ID:** BED0016-10

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Brown soil sandy material	**None Detected**	Cellulose <1%	Binder/Filler, Mineral Grains

Lab ID: 230766603 **Client ID:** BED0016-13

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Brown soil sandy material	**None Detected**	Cellulose <1%	Binder/Filler, Mineral Grains

Lab ID: 230766604 **Client ID:** BED0016-31

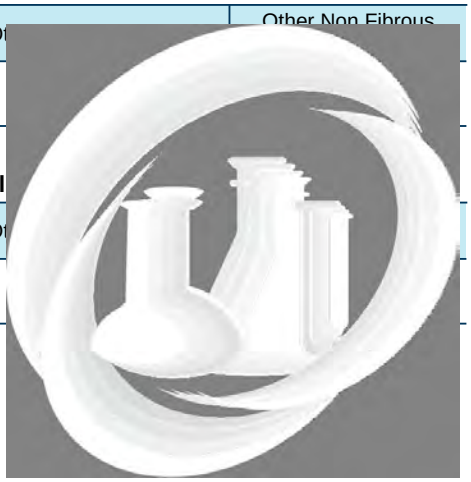
Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Brown soil sandy material	**None Detected**	Cellulose <1%	Binder/Filler, Mineral Grains

Lab ID: 230766605 **Client ID:** BED0016-34

Layer	Layer Description	Asbestos Type %	Ot	Other Non Fibrous
1.	Brown soil sandy material	**None Detected**		

Lab ID: 230766606 **Cl**

Layer	Layer Description	Asbestos Type %	Ot
1.	Brown soil sandy material	**None Detected**	



AIH LABORATORY
2556 W Woodland Dr Anaheim, CA 92801

BULK ASBESTOS FIBER ANALYSIS
BY POLARIZED LIGHT MICROSCOPY

NVLAP TESTING
NVLAP LAB CODE 500079-0
Phone:(562) 860-2201
www.aihlab.com

Client Name: American Environmental Testing Laboratory
Project Manager: Joe Sevrean
Client Address: 2840 North Naomi Street Burbank, CA 91504
Project Number: BED0016/ SMPL-352623
Project Location: No Information Provided

Lab Batch Number: 2307666
Samples Submitted: 7
Samples Analyzed: 7
Analysis Method: EPA 600/R-93-116 & EPA 600/M4-82-020

Lab ID: 230766607 **Client ID:** BED0016-40

Layer	Layer Description	**Asbestos Type %**	Other Fibrous Material %	Other Non Fibrous Material
1.	Brown soil sandy material	**None Detected**	Cellulose <1%	Binder/Filler, Mineral Grains

Analyzed by: Hanaa Armanious **Signature:** Hanaa **Date:** 04-10-2023

Reviewed by: Zubair Ahmed **Signature:**  **Date:** 04-10-2023

Reporting limit is 1%. If the sample was not collected by AIH Laboratory then the accuracy of the results is limited by the methodology and experience of the sample collector. Clients can verify specific reporting limit requirement from local regulatory agencies. Liability limited to cost of samples analysis. This report shall not be reproduced except in full, without written approval of AIH Laboratory. It shall not be used to claim product endorsement by NVLAP or any other agency of the government. Reported results relate only to the samples tested and may not be the representative of the sample area. AIH Laboratory shall dispose of the Customer's samples 14 days after receiving the samples unless instructed to store them for an alternate period of time in writing.



Orange Coast Analytical, Inc.
3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (480) 736-0960 Fax (480) 736-0970

LABORATORY REPORT FORM

ORANGE COAST ANALYTICAL, INC.

3002 Dow Suite 532 Tustin, CA 92780

(714) 832-0064

Laboratory Certification (ELAP) No.:2576
Expiration Date: 2023
Los Angeles County Sanitation District Lab ID# 10206

Laboratory Director's Name:
Mark Noorani

Client:	American Environmental Testing Laboratory
Laboratory Reference:	AETL 27831
Project Name:	BED0016
Project Number:	BED0016
Date Received:	4/6/2023
Date Reported:	4/12/2023
Chain of Custody Received:	☑
Analytical Method:	6020,

Mark Noorani, Laboratory Director

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Rev1.0

Ms. Hailley Coleman
American Environmental Testing Laboratory
2840 Naomi St
Burbank, CA, 91504

Lab Reference #: AETL 27831
Project Name: BED0016
Project #: BED0016

Case Narrative

Sample Receipt:

All samples on the Chain of Custody were received by OCA at 3ºC, on ice.

Holding Times:

All samples were analyzed within required holding times unless otherwise noted in the data qualifier section of the report.

Analytical Methods:

Sample analysis was performed following the analytical methods listed on the cover page.

Data Qualifiers:

Within this report, data qualifiers may have been assigned to clarify deviations in common laboratory procedures or any divergence from laboratory QA/QC criteria. If a data qualifier has been used, it will appear in the back of the report along with its description. All method QA/QC criteria have been met unless otherwise noted in the data qualifier section.

Definition of Terms:

The definitions of common terms and acronyms used in the report have been placed at the back of the report to assist data users.

Comments:

None

Ms. Hailley Coleman
American Environmental Testing Laboratory
2840 Naomi St
Burbank, CA, 91504

Lab Reference #: AETL 27831
Project Name: BED0016
Project #: BED0016

Client Sample Summary

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0016-01	27831-001	4/6/2023	4/5/2023	Soil
BED0016-04	27831-002	4/6/2023	4/5/2023	Soil
BED0016-07	27831-003	4/6/2023	4/5/2023	Soil
BED0016-10	27831-004	4/6/2023	4/5/2023	Soil
BED0016-13	27831-005	4/6/2023	4/5/2023	Soil
BED0016-16	27831-006	4/6/2023	4/5/2023	Soil
BED0016-19	27831-007	4/6/2023	4/5/2023	Soil
BED0016-20	27831-008	4/6/2023	4/5/2023	Soil
BED0016-23	27831-009	4/6/2023	4/5/2023	Soil
BED0016-26	27831-010	4/6/2023	4/5/2023	Soil
BED0016-27	27831-011	4/6/2023	4/5/2023	Soil
BED0016-30	27831-012	4/6/2023	4/5/2023	Soil
BED0016-31	27831-013	4/6/2023	4/5/2023	Soil
BED0016-34	27831-014	4/6/2023	4/5/2023	Soil
BED0016-37	27831-015	4/6/2023	4/5/2023	Soil
BED0016-40	27831-016	4/6/2023	4/5/2023	Soil
BED0016-43	27831-017	4/6/2023	4/5/2023	Soil
BED0016-48	27831-018	4/6/2023	4/5/2023	Soil
BED0016-51	27831-019	4/6/2023	4/5/2023	Soil
BED0016-54	27831-020	4/6/2023	4/5/2023	Soil
BED0016-57	27831-021	4/6/2023	4/5/2023	Soil

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American Environmental Testing Laboratory
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Burbank, CA, 91504

Lab Reference #: AETL 27831
Project Name: BED0016
Project #: BED0016

Metals

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0016-01	27831-001	4/6/2023 12:25	4/5/2023 6:56	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	8.7	mg/kg	04/11/23 09:00	04/12/23 07:45	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0016-04	27831-002	4/6/2023 12:25	4/5/2023 7:33	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	200	mg/kg	04/11/23 09:00	04/12/23 08:06	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0016-07	27831-003	4/6/2023 12:25	4/5/2023 7:53	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	17	mg/kg	04/11/23 09:00	04/12/23 08:09	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0016-10	27831-004	4/6/2023 12:25	4/5/2023 8:52	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	16	mg/kg	04/11/23 09:00	04/12/23 08:12	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0016-13	27831-005	4/6/2023 12:25	4/5/2023 9:25	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	8.8	mg/kg	04/11/23 09:00	04/12/23 08:15	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0016-16	27831-006	4/6/2023 12:25	4/5/2023 7:17	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	7.0	mg/kg	04/11/23 09:00	04/12/23 08:19	--	1

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American Environmental Testing Laboratory
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Burbank, CA, 91504

Lab Reference #: AETL 27831
Project Name: BED0016
Project #: BED0016

Metals

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0016-19	27831-007	4/6/2023 12:25	4/5/2023 8:27	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	83	mg/kg	04/11/23 09:00	04/12/23 08:22	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0016-20	27831-008	4/6/2023 12:25	4/5/2023 8:32	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	120	mg/kg	04/11/23 09:00	04/12/23 08:25	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0016-23	27831-009	4/6/2023 12:25	4/5/2023 9:48	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	21	mg/kg	04/11/23 09:00	04/12/23 08:28	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0016-26	27831-010	4/6/2023 12:25	4/5/2023 10:02	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	37	mg/kg	04/11/23 09:00	04/12/23 08:31	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0016-27	27831-011	4/6/2023 12:25	4/5/2023 10:07	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	42	mg/kg	04/11/23 09:00	04/12/23 08:40	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0016-30	27831-012	4/6/2023 12:25	4/5/2023 10:41	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	4.6	mg/kg	04/11/23 09:00	04/12/23 08:43	--	1

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American Environmental Testing Laboratory
2840 Naomi St
Burbank, CA, 91504

Lab Reference #: AETL 27831
Project Name: BED0016
Project #: BED0016

Metals

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0016-31	27831-013	4/6/2023 12:25	4/5/2023 11:00	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	5.0	mg/kg	04/11/23 09:00	04/12/23 08:46	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0016-34	27831-014	4/6/2023 12:25	4/5/2023 13:00	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	4.4	mg/kg	04/11/23 09:00	04/12/23 08:49	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0016-37	27831-015	4/6/2023 12:25	4/5/2023 13:54	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	4.2	mg/kg	04/11/23 09:00	04/12/23 08:52	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0016-40	27831-016	4/6/2023 12:25	4/5/2023 14:37	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	26	mg/kg	04/11/23 09:00	04/12/23 08:55	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0016-43	27831-017	4/6/2023 12:25	4/5/2023 14:12	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	58	mg/kg	04/11/23 09:00	04/12/23 08:59	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0016-48	27831-018	4/6/2023 12:25	4/5/2023 11:33	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	4.7	mg/kg	04/11/23 09:00	04/12/23 09:02	--	1

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American Environmental Testing Laboratory
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Burbank, CA, 91504

Lab Reference #: AETL 27831
Project Name: BED0016
Project #: BED0016

Metals

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0016-51	27831-019	4/6/2023 12:25	4/5/2023 12:37	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	10	mg/kg	04/11/23 09:00	04/12/23 09:05	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0016-54	27831-020	4/6/2023 12:25	4/5/2023 13:21	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	24	mg/kg	04/11/23 09:00	04/12/23 09:08	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0016-57	27831-021	4/6/2023 12:25	4/5/2023 13:37	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	1.8	mg/kg	04/11/23 09:00	04/12/23 09:27	--	1

Method Blank						Soil	
MB ID	ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
MBKL0411232	Arsenic	6020	<1.0	mg/kg	04/11/23 09:00	04/12/23 09:17	--	1

Method Blank						Soil	
MB ID	ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
MBKL0411231	Arsenic	6020	<1.0	mg/kg	04/11/23 09:00	04/12/23 07:35	--	1

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QA/QC Report
for
Metals

Reference #: AETL 27831 Reporting units: ppm

Matrix Spike (MS) / Matrix Spike Duplicate (MSD) **6020**

Laboratory Sample #: 27831-001 **Date of Extraction:** 04/11/23 09:00

Analyte	MS Date of Analysis	MSD Date of Analysis	R1	SPC CONC	MS	MSD	% MS	% MSD	RPD	ACP %MS	ACP RPD	Qualifiers
Arsenic	04/12/23 07:48	04/12/23 07:51	8.70	20.0	29.9	29.8	106	105	0	75-125	20	--

Laboratory Control Spike (LCS) / Laboratory Control Spike Duplicate (LCSD) **6020**

Laboratory Sample #: KL0411231 **Date of Extraction:** 04/11/23 09:00

Analyte	LCS Date of Analysis	LCSD Date of Analysis		SPC CONC	LCS	LCSD	% LCS	% LCSD	RPD	ACP %LCS	ACP RPD	Qualifiers
Arsenic	04/12/23 07:38	04/12/23 07:42	--	20.0	21.4	20.9	107	104	2	80-120	20	--

Matrix Spike (MS) / Matrix Spike Duplicate (MSD) **6020**

Laboratory Sample #: 27831-021 **Date of Extraction:** 04/11/23 09:00

Analyte	MS Date of Analysis	MSD Date of Analysis	R1	SPC CONC	MS	MSD	% MS	% MSD	RPD	ACP %MS	ACP RPD	Qualifiers
Arsenic	04/12/23 09:30	04/12/23 09:33	1.80	20.0	22.7	22.1	105	102	3	75-125	20	--

Laboratory Control Spike (LCS) / Laboratory Control Spike Duplicate (LCSD) **6020**

Laboratory Sample #: KL0411232 **Date of Extraction:** 04/11/23 09:00

Analyte	LCS Date of Analysis	LCSD Date of Analysis		SPC CONC	LCS	LCSD	% LCS	% LCSD	RPD	ACP %LCS	ACP RPD	Qualifiers
Arsenic	04/12/23 09:20	04/12/23 09:24	--	20.0	21.7	21.9	109	109	1	80-120	20	--

Definition of terms:

R	Result of unspiked laboratory sample used for matrix spike determination.
SP CONC (or Spike Conc.)	Spike concentration added to sample or blank
MS	Matrix Spike sample result
MSD	Matrix Spike Duplicate sample result
%MS	Percent recovery of MS: {(MS-R1) / SP CONC} x100
%MSD	Percent recovery of MSD: {(MSD-R1) / SP CONC} x 100
RPD (for MS/MSD)	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2
LCS	Laboratory Control Sample result
LCSD	Laboratory Control Sample Duplicate result
%LCS	Percent recovery of LCS: {(LCS) / SP CONC} x100
%LCSD	Percent recovery of LCSD: {(LCSD) / SP CONC} x 100
RPD (for LCS/LCSD)	Relative Percent Difference: {(LCS-LCSD) / (LCS+LCSD)} x 100 x 2
ACP %LCS	Acceptable percent recovery range for Laboratory Control Samples.
ACP %MS	Acceptable percent recovery range for Matrix Spike samples
ACP RPD	Acceptable Relative Percent Difference
D	Detectable, result must be greater than zero
Qual	A checked box indicates a data qualifier was utilized and/or required for this analyte see attached explanation.
ND	Analyte Not Detected

27831

AMERICAN ENVIRONMENTAL TESTING LABORATORY, LLC
2840 North Naomi Street, Burbank, CA 91504 • ELAP# 1541 • LACSD# 10181
Telephone (888) 288-AETL • (818) 845-8200 • www.aetlab.com

SUBCONTRACT CHAIN of CUSTODY

Sending Laboratory:

AETL
AETL, LLC. 2840 N. Naomi Street
Burbank, CA 91504
Phone: 818-845-8200

Project Manager: Hailley Coleman
Email: hcoleman@aetlab.com

Subcontracted Laboratory:

Orange Coast Analytical. Inc.
3002 Dow Ave., Ste. 532
Tustin, CA 92780
Phone: (714) 832-0064
Fax:

Work Order: BED0016 PO #SUB-35262

Analysis	Due	Expires	Comments
Sample ID: BED0016-01 ***Soil*** ***Sampled: 04/05/2023 06:56***			
6020-As (Arsenic, total by ICP/MS)	04/12/2023	10/02/2023 06:56	
Containers Supplied:			
Sample ID: BED0016-04 ***Soil*** ***Sampled: 04/05/2023 07:33***			
6020-As (Arsenic, total by ICP/MS)	04/12/2023	10/02/2023 07:33	
Containers Supplied:			
Sample ID: BED0016-07 ***Soil*** ***Sampled: 04/05/2023 07:53***			
6020-As (Arsenic, total by ICP/MS)	04/12/2023	10/02/2023 07:53	
Containers Supplied:			
Sample ID: BED0016-10 ***Soil*** ***Sampled: 04/05/2023 08:52***			
6020-As (Arsenic, total by ICP/MS)	04/12/2023	10/02/2023 08:52	
Containers Supplied:			
Sample ID: BED0016-13 ***Soil*** ***Sampled: 04/05/2023 09:25***			
6020-As (Arsenic, total by ICP/MS)	04/12/2023	10/02/2023 09:25	

Approved by: HAILEY COLEMAN 4/6/23
AETL Project Manager — Date

Released By AETL Sample Control	Date	Received By Courier	Date
Released By Courier	Date 4/6/23 12:25	Received By Subcontract Laboratory	Date 4-6-23 1225

On ice C 3.0+0=3.0°C
LR #3

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SUBCONTRACT CHAIN of CUSTODY
(Continued)

Work Order: BED0016 (Continued)

Analysis	Due	Expires	Comments
Containers Supplied:			
Sample ID: BED0016-16 ***Soil*** ***Sampled: 04/05/2023 07:17***			
6020-As (Arsenic, total by ICP/MS)	04/12/2023	10/02/2023 07:17	
Containers Supplied:			
Sample ID: BED0016-19 ***Soil*** ***Sampled: 04/05/2023 08:27***			
6020-As (Arsenic, total by ICP/MS)	04/12/2023	10/02/2023 08:27	
Containers Supplied:			
Sample ID: BED0016-20 ***Soil*** ***Sampled: 04/05/2023 08:32***			
6020-As (Arsenic, total by ICP/MS)	04/12/2023	10/02/2023 08:32	
Containers Supplied:			
Sample ID: BED0016-23 ***Soil*** ***Sampled: 04/05/2023 09:48***			
6020-As (Arsenic, total by ICP/MS)	04/12/2023	10/02/2023 09:48	
Containers Supplied:			
Sample ID: BED0016-26 ***Soil*** ***Sampled: 04/05/2023 10:02***			
6020-As (Arsenic, total by ICP/MS)	04/12/2023	10/02/2023 10:02	
Containers Supplied:			
Sample ID: BED0016-27 ***Soil*** ***Sampled: 04/05/2023 10:07***			
6020-As (Arsenic, total by ICP/MS)	04/12/2023	10/02/2023 10:07	

Approved by: _____ _____
AETL Project Manager — Date

Released By AETL Sample Control	Date	Received By Courier	Date
Released By Courier	Date	Received By Subcontract Laboratory	Date
	4/6/23 12:25	OCAJGA	4-6-23 12:

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SUBCONTRACT CHAIN of CUSTODY
(Continued)

Work Order: BED0016 (Continued)

Analysis	Due	Expires	Comments
Containers Supplied:			
2 Sample ID: BED0016-30 ***Soil*** ***Sampled: 04/05/2023 10:41***			
6020-As (Arsenic, total by ICP/MS)	04/12/2023	10/02/2023 10:41	
Containers Supplied:			
3 Sample ID: BED0016-31 ***Soil*** ***Sampled: 04/05/2023 11:00***			
6020-As (Arsenic, total by ICP/MS)	04/12/2023	10/02/2023 11:00	
Containers Supplied:			
4 Sample ID: BED0016-34 ***Soil*** ***Sampled: 04/05/2023 13:00***			
6020-As (Arsenic, total by ICP/MS)	04/12/2023	10/02/2023 13:00	
Containers Supplied:			
5 Sample ID: BED0016-37 ***Soil*** ***Sampled: 04/05/2023 13:54***			
6020-As (Arsenic, total by ICP/MS)	04/12/2023	10/02/2023 13:54	
Containers Supplied:			
6 Sample ID: BED0016-40 ***Soil*** ***Sampled: 04/05/2023 14:37***			
6020-As (Arsenic, total by ICP/MS)	04/12/2023	10/02/2023 14:37	
Containers Supplied:			
7 Sample ID: BED0016-43 ***Soil*** ***Sampled: 04/05/2023 14:12***			
6020-As (Arsenic, total by ICP/MS)	04/12/2023	10/02/2023 14:12	

Approved by: _____ _____
AETL Project Manager — Date

Released By AETL Sample Control	Date	Received By Courier	Date
Released By Courier	Date 4/6/23 12:25	Received By Subcontract Laboratory	Date 4-6-23 122

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SUBCONTRACT CHAIN of CUSTODY
(Continued)

Work Order: BED0016 (Continued)

Analysis	Due	Expires	Comments
Containers Supplied:			
Sample ID: BED0016-48 ***Soil*** ***Sampled: 04/05/2023 11:33***			
6020-As (Arsenic, total by ICP/MS)	04/12/2023	10/02/2023 11:33	
Containers Supplied:			
Sample ID: BED0016-51 ***Soil*** ***Sampled: 04/05/2023 12:37***			
6020-As (Arsenic, total by ICP/MS)	04/12/2023	10/02/2023 12:37	
Containers Supplied:			
Sample ID: BED0016-54 ***Soil*** ***Sampled: 04/05/2023 13:21***			
6020-As (Arsenic, total by ICP/MS)	04/12/2023	10/02/2023 13:21	
Containers Supplied:			
Sample ID: BED0016-57 ***Soil*** ***Sampled: 04/05/2023 13:37***			
6020-As (Arsenic, total by ICP/MS)	04/12/2023	10/02/2023 13:37	
Containers Supplied:			

Approved by: _____ _____
AETL Project Manager — Date

Released By AETL Sample Control	Date	Received By Courier	Date
	4/6/23		
Released By Courier	Date	Received By Subcontract Laboratory	Date
	4/6/23		4-6-23 12:
	12:25		

Sample Receipt Report

Laboratory Reference: AETL 27831 Logged in by: MM

Received:	04/06/23 12:25	Company Name:	American Environmental Testing Labo
Method of Shipment:	Hand Delivered	Project Manager:	Ms. Hailley Coleman
Shipping Container:	Cooler	Project Name:	BED0016
# Shipping Containers:	1	Project #:	BED0016

Sample Quantity
21 Soil

Chain of Custody	Complete ☑	Incomplete ☐	None ☐
Samples On Ice	Yes, Wet ☑	Yes, Blue ☐	No ☐
Observed Temp. (°C): 3	Thermometer ID: IR#3	Adjusted Temp.:	3+(-0)=3
Shipping Intact	Yes ☐	N/A ☑	No ☐
Shipping Custody Seals Intact	Yes ☐	N/A ☑	No ☐
Samples Intact	Yes ☑		No ☐
Sample Custody Seals Intact	Yes ☐	N/A ☑	No ☐
Custody Seals Signed & Dated	Yes ☐	N/A ☑	No ☐
Proper Test Containers	Yes ☑		No ☐
Proper Test Preservations	Yes ☑		No ☐
Samples Within Hold Times	Yes ☑		No ☐
VOAs Have Zero Headspace	Yes ☐	N/A ☑	No ☐
Sample Labels	Complete ☑	Incomplete ☐	None ☐
Sample Information Matches COC	Yes ☑	N/A ☐	No ☐

Notes

Client Notified _____ By _____ On _____

April 12, 2023

Hailley Coleman
American Environmental Testing Laboratory, Inc.
2834 N. Naomi Street
Burbank, CA 91504

TEL: (818) 845-8200
FAX:

Workorder No.: N055842

RE: BED0016

Attention: Hailley Coleman

Enclosed are the results for sample(s) received on April 06, 2023 by ASSET Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562) 219-7435 if I can be of further assistance to your company.

Sincerely,



Ferdinand Paul Lugtu
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and ASSET Laboratories - California.

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

All sample containers were received intact with proper chain of custody documentation.

Information on sample receipt conditions including discrepancies can be found in attached Sample Receipt Checklist Form.

Cooler temperature and sample preservation were verified upon receipt of samples if applicable.

Samples were analyzed within method holding time.

CLIENT: American Environmental Testing Laborator
Project: BED0016
Lab Order: N055842
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N055842-001A	BED0016-01	Soil	4/5/2023 6:56:00 AM	4/6/2023	4/12/2023
N055842-002A	BED0016-10	Soil	4/5/2023 8:52:00 AM	4/6/2023	4/12/2023
N055842-003A	BED0016-13	Soil	4/5/2023 9:25:00 AM	4/6/2023	4/12/2023
N055842-004A	BED0016-31	Soil	4/5/2023 11:00:00 AM	4/6/2023	4/12/2023
N055842-005A	BED0016-34	Soil	4/5/2023 1:00:00 PM	4/6/2023	4/12/2023
N055842-006A	BED0016-37	Soil	4/5/2023 1:54:00 PM	4/6/2023	4/12/2023
N055842-007A	BED0016-40	Soil	4/5/2023 2:37:00 PM	4/6/2023	4/12/2023

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BED0016-01
Lab Order:	N055842		
Project:	BED0016	**Collection Date:**	4/5/2023 6:56:00 AM
Lab ID:	N055842-001	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC						
EPA 3060A				**EPA 7199**		
RunID: CA01638-IC01_230411A	QC Batch: 99076			PrepDate:	4/10/2023	Analyst: **CR**
Hexavalent Chromium	ND	0.20		mg/Kg	1	4/11/2023 01:27 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BED0016-10
Lab Order:	N055842		
Project:	BED0016	**Collection Date:**	4/5/2023 8:52:00 AM
Lab ID:	N055842-002	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC						
EPA 3060A				**EPA 7199**		
RunID: CA01638-IC01_230411A	QC Batch: 99076			PrepDate:	4/10/2023	Analyst: **CR**
Hexavalent Chromium	ND	0.20		mg/Kg	1	4/11/2023 03:30 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BED0016-13
Lab Order:	N055842		
Project:	BED0016	**Collection Date:**	4/5/2023 9:25:00 AM
Lab ID:	N055842-003	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC						
EPA 3060A				**EPA 7199**		
RunID: CA01638-IC01_230411A	QC Batch: 99076			PrepDate:	4/10/2023	Analyst: **CR**
Hexavalent Chromium	ND	0.20		mg/Kg	1	4/11/2023 03:52 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BED0016-31
Lab Order:	N055842		
Project:	BED0016	**Collection Date:**	4/5/2023 11:00:00 AM
Lab ID:	N055842-004	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC						
EPA 3060A				**EPA 7199**		
RunID: CA01638-IC01_230411A	QC Batch: 99076			PrepDate:	4/10/2023	Analyst: **CR**
Hexavalent Chromium	ND	0.20		mg/Kg	1	4/11/2023 04:15 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BED0016-34
Lab Order:	N055842		
Project:	BED0016	**Collection Date:**	4/5/2023 1:00:00 PM
Lab ID:	N055842-005	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC						
EPA 3060A			**EPA 7199**			
RunID: CA01638-IC01_230411A	QC Batch: 99076			PrepDate:	4/10/2023	Analyst: **CR**
Hexavalent Chromium	ND	0.20		mg/Kg	1	4/11/2023 04:38 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BED0016-37
Lab Order:	N055842		
Project:	BED0016	**Collection Date:**	4/5/2023 1:54:00 PM
Lab ID:	N055842-006	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC						
EPA 3060A				**EPA 7199**		
RunID: CA01638-IC01_230411A	QC Batch: 99076			PrepDate:	4/10/2023	Analyst: **CR**
Hexavalent Chromium	ND	0.20		mg/Kg	1	4/11/2023 05:01 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BED0016-40
Lab Order:	N055842		
Project:	BED0016	**Collection Date:**	4/5/2023 2:37:00 PM
Lab ID:	N055842-007	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC						
EPA 3060A				**EPA 7199**		
RunID: CA01638-IC01_230411A	QC Batch: 99076			PrepDate:	4/10/2023	Analyst: **CR**
Hexavalent Chromium	ND	0.20		mg/Kg	1	4/11/2023 05:46 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: American Environmental Testing Laboratory, Inc.
Work Order: N055842
Project: BED0016

ANALYTICAL QC SUMMARY REPORT

TestCode: CA_7199_S

Sample ID: **LCS-99076**	SampType: **LCS**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/10/2023**	RunNo: **171275**
Client ID: **LCSS**	Batch ID: **99076**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/11/2023**	SeqNo: **5147060**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	3.978	0.20	4.000	0	99.4	80	120				

Sample ID: **MB-99076**	SampType: **MBLK**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/10/2023**	RunNo: **171275**
Client ID: **PBS**	Batch ID: **99076**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/11/2023**	SeqNo: **5147061**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20									

Sample ID: **N055842-001A-REP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/10/2023**	RunNo: **171275**
Client ID: **ZZZZZZ**	Batch ID: **99076**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/11/2023**	SeqNo: **5147063**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20						0	0	20	

Sample ID: **N055842-001A-DUP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/10/2023**	RunNo: **171275**
Client ID: **ZZZZZZ**	Batch ID: **99076**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/11/2023**	SeqNo: **5147064**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20						0	0	20	

Sample ID: **N055842-001A-PS**	SampType: **MS**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date:	RunNo: **171275**
Client ID: **ZZZZZZ**	Batch ID: **99076**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/11/2023**	SeqNo: **5147065**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.007	0.20	3.993	0	100	75	125				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

ANALYTICAL QC SUMMARY REPORT

TestCode: CA_7199_S

Sample ID: **N055842-001A-MS**	SampType: **MS**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/10/2023**	RunNo: **171275**
Client ID: **ZZZZZZ**	Batch ID: **99076**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/11/2023**	SeqNo: **5147066**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	3.983	0.20	3.998	0	99.6	75	125				

Sample ID: **N055842-001A-MSD**	SampType: **MSD**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/10/2023**	RunNo: **171275**
Client ID: **ZZZZZZ**	Batch ID: **99076**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/11/2023**	SeqNo: **5147067**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.063	0.20	3.993	0	102	75	125	3.983	2.00	20	

Sample ID: **N055842-001A-MS-I**	SampType: **MS**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/10/2023**	RunNo: **171275**
Client ID: **ZZZZZZ**	Batch ID: **99076**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/11/2023**	SeqNo: **5147069**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	511.624	10	649.1	0	78.8	75	125				

Sample ID: **N055842-002A-REP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/10/2023**	RunNo: **171275**
Client ID: **ZZZZZZ**	Batch ID: **99076**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/11/2023**	SeqNo: **5147073**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20						0	0	20	

Sample ID: **N055842-003A-REP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/10/2023**	RunNo: **171275**
Client ID: **ZZZZZZ**	Batch ID: **99076**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/11/2023**	SeqNo: **5147075**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20						0	0	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

ANALYTICAL QC SUMMARY REPORT

TestCode: CA_7199_S

Sample ID: **N055842-004A-REP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/10/2023**	RunNo: **171275**
Client ID: **ZZZZZZ**	Batch ID: **99076**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/11/2023**	SeqNo: **5147077**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.065	0.20						0.06965	0	20	

Sample ID: **N055842-005A-REP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/10/2023**	RunNo: **171275**
Client ID: **ZZZZZZ**	Batch ID: **99076**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/11/2023**	SeqNo: **5147079**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20						0	0	20	

Sample ID: **N055842-006A-REP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/10/2023**	RunNo: **171275**
Client ID: **ZZZZZZ**	Batch ID: **99076**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/11/2023**	SeqNo: **5147081**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20						0	0	20	

Sample ID: **N055842-007A-REP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/10/2023**	RunNo: **171275**
Client ID: **ZZZZZZ**	Batch ID: **99076**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/11/2023**	SeqNo: **5147085**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20						0	0	20	

Sample ID: **N055871-005B-REP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/10/2023**	RunNo: **171275**
Client ID: **ZZZZZZ**	Batch ID: **99076**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/11/2023**	SeqNo: **5147087**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20						0	0	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

ANALYTICAL QC SUMMARY REPORT

TestCode: CA_7199_S

Sample ID: **N055871-010B-REP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/10/2023**	RunNo: **171275**
Client ID: **ZZZZZZ**	Batch ID: **99076**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/11/2023**	SeqNo: **5147089**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.075	0.20						0.07652	0	20	

Sample ID: **N055871-015B-REP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/10/2023**	RunNo: **171275**
Client ID: **ZZZZZZ**	Batch ID: **99076**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/11/2023**	SeqNo: **5147091**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.102	0.20						0.1055	0	20	

Sample ID: **N055871-020B-REP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/10/2023**	RunNo: **171275**
Client ID: **ZZZZZZ**	Batch ID: **99076**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/11/2023**	SeqNo: **5147093**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.082	0.20						0.07957	0	20	

Sample ID: **N055871-025B-REP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/10/2023**	RunNo: **171275**
Client ID: **ZZZZZZ**	Batch ID: **99076**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/11/2023**	SeqNo: **5147097**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.152	0.20						0.1449	0	20	

Sample ID: **N055871-030B-REP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/10/2023**	RunNo: **171275**
Client ID: **ZZZZZZ**	Batch ID: **99076**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/11/2023**	SeqNo: **5147099**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20						0	0	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

ANALYTICAL QC SUMMARY REPORT

TestCode: CA_7199_S

Sample ID: **N055881-001A-REP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/10/2023**	RunNo: **171275**
Client ID: **ZZZZZZ**	Batch ID: **99076**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/11/2023**	SeqNo: **5147101**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20						0	0	20	

Sample ID: **N055881-002A-REP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/10/2023**	RunNo: **171275**
Client ID: **ZZZZZZ**	Batch ID: **99076**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/11/2023**	SeqNo: **5147103**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.093	0.20						0	0	20	

Sample ID: **N055887-001A-REP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/10/2023**	RunNo: **171275**
Client ID: **ZZZZZZ**	Batch ID: **99076**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/11/2023**	SeqNo: **5147105**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20						0	0	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

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SUBCONTRACT CHAIN of CUSTODY

Sending Laboratory:

AETL
AETL, LLC. 2840 N. Naomi Street
Burbank, CA 91504
Phone: 818-845-8200
Project Manager: Hailley Coleman
Email: hcoleman@aetlab.com

Subcontracted Laboratory:

ASSET Laboratories
11110 Artesia Blvd.
Cerritos, CA 90703
Phone: (702)307-2659
Fax: (562)219-7435

Work Order: BED0016 PO # SUB-35267

Analysis	Due	Expires	Comments
Sample ID: BED0016-01 *Soil* *Sampled: 04/05/2023 06:56*			
7199 (Chromium Hexavalent by Ion Chromatography)	04/12/2023	05/03/2023 06:56	N055842-001
Containers Supplied:			
Sample ID: BED0016-10 *Soil* *Sampled: 04/05/2023 08:52*			
7199 (Chromium Hexavalent by Ion Chromatography)	04/12/2023	05/03/2023 08:52	-002
Containers Supplied:			
Sample ID: BED0016-13 *Soil* *Sampled: 04/05/2023 09:25*			
7199 (Chromium Hexavalent by Ion Chromatography)	04/12/2023	05/03/2023 09:25	-003
Containers Supplied:			
Sample ID: BED0016-31 *Soil* *Sampled: 04/05/2023 11:00*			
7199 (Chromium Hexavalent by Ion Chromatography)	04/12/2023	05/03/2023 11:00	-004
Containers Supplied:			

CA: 4.6°C IR#1

Approved by: HAILLEY COLEMAN 4/6/23
AETL Project Manager — Date

Released By AETL Sample Control — Date

Received By Courier — Date

Released By Courier — 4/6/23 — Date

Received By Subcontract Laboratory — 4/6/23 1125 — Date

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SUBCONTRACT CHAIN of CUSTODY
(Continued)

Work Order: BED0016 (Continued)

Analysis	Due	Expires	Comments
Sample ID: BED0016-34 ***Soil*** ***Sampled: 04/05/2023 13:00***			
7199 (Chromium Hexavalent by Ion Chromatography)	04/12/2023	05/03/2023 13:00	N055842-005
Containers Supplied:			
Sample ID: BED0016-37 ***Soil*** ***Sampled: 04/05/2023 13:54***			
7199 (Chromium Hexavalent by Ion Chromatography)	04/12/2023	05/03/2023 13:54	-006
Containers Supplied:			
Sample ID: BED0016-40 ***Soil*** ***Sampled: 04/05/2023 14:37***			
7199 (Chromium Hexavalent by Ion Chromatography)	04/12/2023	05/03/2023 14:37	-007
Containers Supplied:			

IA: 4.6° CF12# 1

Approved by: _____ Date _____
AETL Project Manager

Released By AETL Sample Control	Date	Received By Courier	Date
Released By Courier	Date 4/6/23	Received By Subcontract Laboratory	Date 4/6/23 1125

ASSET Laboratories

Please review the checklist below. Any NO signifies non-compliance. Any non-compliance will be noted and must be understood as having an impact on the quality of the data. All tests will be performed as requested regardless of any compliance issues.

If you have any questions or further instruction, please contact our Project Coordinator at (702) 307-2659.

Cooler Received/Opened On:	4/6/2023	Workorder:	N055842
Rep sample Temp (Deg C):	4.6	IR Gun ID:	1
Temp Blank:	☐ Yes ☑ No		
Carrier name:	Walk-In		
Last 4 digits of Tracking No.:	NA	Packing Material Used:	None
Cooling process:	☑ Ice ☐ Ice Pack ☐ Dry Ice ☐ Other ☐ None		

Sample Receipt Checklist

1. Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
2. Custody seals intact, signed, dated on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
3. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
4. Chain of custody present?	Yes ☑	No ☐	
5. Sampler's name present in COC?	Yes ☐	No ☑	
6. Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
7. Chain of custody agrees with sample labels?	Yes ☑	No ☐	
8. Samples in proper container/bottle?	Yes ☑	No ☐	
9. Sample containers intact?	Yes ☑	No ☐	
10. Sufficient sample volume for indicated test?	Yes ☑	No ☐	
11. All samples received within holding time?	Yes ☑	No ☐	
12. Temperature of rep sample or Temp Blank within acceptable limit?	Yes ☑	No ☐	NA ☐
13. Water - VOA vials have zero headspace?	Yes ☐	No ☐	NA ☑
14. Water - pH acceptable upon receipt? Example: pH > 12 for (CN,S); pH<2 for Metals	Yes ☐	No ☐	NA ☑
15. Did the bottle labels indicate correct preservatives used?	Yes ☐	No ☐	NA ☑
16. Were there Non-Conformance issues at login?	Yes ☑	No ☐	NA ☐
Was Client notified?	Yes ☐	No ☐	NA ☑

Comments:

Checklist Completed By: MR 4/6/2023

Reviewed By:

ASSET Laboratories

WORK ORDER Summary

06-Apr-23

WorkOrder: N055842

Client ID: AETL01

Project: BED0016 **QC Level:** RTNE **Date Received:** 4/6/2023 11:25 AM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N055842-001A	BED0016-01	4/5/2023 6:56:00 AM	4/12/2023	Soil	EPA 3060A	Prep for Hexavalent Chromium	☐	☐	☐	WS-CA
			4/12/2023		EPA 7199	Hexavalent Chromium by IC	☐	☐	☐	WS-CA
N055842-002A	BED0016-10	4/5/2023 8:52:00 AM	4/12/2023		EPA 3060A	Prep for Hexavalent Chromium	☐	☐	☐	WS-CA
			4/12/2023		EPA 7199	Hexavalent Chromium by IC	☐	☐	☐	WS-CA
N055842-003A	BED0016-13	4/5/2023 9:25:00 AM	4/12/2023		EPA 3060A	Prep for Hexavalent Chromium	☐	☐	☐	WS-CA
			4/12/2023		EPA 7199	Hexavalent Chromium by IC	☐	☐	☐	WS-CA
N055842-004A	BED0016-31	4/5/2023 11:00:00 AM	4/12/2023		EPA 3060A	Prep for Hexavalent Chromium	☐	☐	☐	WS-CA
			4/12/2023		EPA 7199	Hexavalent Chromium by IC	☐	☐	☐	WS-CA
N055842-005A	BED0016-34	4/5/2023 1:00:00 PM	4/12/2023		EPA 3060A	Prep for Hexavalent Chromium	☐	☐	☐	WS-CA
			4/12/2023		EPA 7199	Hexavalent Chromium by IC	☐	☐	☐	WS-CA
N055842-006A	BED0016-37	4/5/2023 1:54:00 PM	4/12/2023		EPA 3060A	Prep for Hexavalent Chromium	☐	☐	☐	WS-CA
			4/12/2023		EPA 7199	Hexavalent Chromium by IC	☐	☐	☐	WS-CA
N055842-007A	BED0016-40	4/5/2023 2:37:00 PM	4/12/2023		EPA 3060A	Prep for Hexavalent Chromium	☐	☐	☐	WS-CA
			4/12/2023		EPA 7199	Hexavalent Chromium by IC	☐	☐	☐	WS-CA
N055842-008A	FOLDER	4/12/2023	4/12/2023		Folder	Folder	☐	☐	☐	LAB
			4/12/2023		Folder	Folder	☐	☐	☐	LAB

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April 25, 2023

AETL Job No: BED0016.01
Received Date: 04/05/2023
Project Number: [none]

Parsons
100 West Walnut Street
Pasadena, CA 91124
Telephone: (626) 440-6200

Attention: Justin King

Project Name: Canoga Park High School
Site: 6850 CA-27
Canoga Park, CA 91303

Enclosed please find the results of analyses for samples which were analyzed as specified on the attached chain of custody. If you have any questions concerning this report, please do not hesitate to call.

Checked By: Hailley Coleman
Project Manager

Approved By: Joe Sevrean
Laboratory Director

Table of Contents

Client Project Name: General Soil Testing Project Number: [none]
Work Order Number: BED0016

1 Cover Letter 1
2 Sample Condition on Receipt 3
3 Chain of Custody 4
4 Cooler Receipt Forms 8
5 Case Narrative 9
6 Samples Received 10
7 Positive Hits Summary 13
8 Analytical Results 15
9 Quality Control Results 23
10 Qualifiers and Definitions 29
11 Sub Contracted Analysis 31

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/25/2023 15:23

Sample Condition on Receipt

Cooler ID: Default Cooler **Temperature: 5.5 °C**

Are the COCs Correct	Y		
Labels Legible	Y	Containers In Good Condition	Y
COC/Labels Agree	Y	Samples Preserved Properly	Y
Sufficient Sample Volume	Y	Sufficient Holding Time for all Tests	Y
Sample Labels intact	Y	Received on Ice	Y

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

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CHAIN OF CUSTODY RECORD

108494

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut Street Pasadena, CA 91124
PHONE / FAX: (310) 809-5793
PROJECT NAME: Canoga Park High School
PROJECT #:
SITE NAME AND ADDRESS: 6850 CA-27, Canoga Park, CA 91303
PO #:
AETL JOB No. BED0016
Page 1 of 4

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	OCPs (8081A)	PCBs (8082A)	Asbestos (PLM)	PAHs (8270C)	Cr (VI) (7199)	Cd+Ni (6010B)	Mercury (7470A)	PCBs (8082)	TEST INSTRUCTIONS & COMMENTS
																		STLC-As TCLP-As STLC-Pb TCLP-Pb
1	SB-33-D0.5	BED0016-01	4/5/2023	0656	Soil	1x4oz+2x2oz	NONE	X	X	X		X	X	X	X	X	X	
2	SB-33-D2.0	02		0659		1x4oz												Hold
3	SB-33-D3.0	03		0705														Hold
4	SB-34-D0.5	04		0733				X	X	X							X	X X
5	SB-34-D2.0	05		0737					X									Hold
6	SB-34-D3.0	06		0743														Hold
7	SB-35-D0.5	07		0753				X	X	X							X	X X
8	SB-35-D2.0	08		0758				X	X									Hold
9	SB-35-D3.0	09		0811														Hold
10	SB-39-D0.5	10		0852		1x4oz+2x2oz		X	X	X		X	X	X	X	X	X	X X
11	SB-39-D2.0	11		0856		1x4oz		X	X									Hold
12	SB-39-D3.0	12		0900		1x4oz												Hold
13	SB-6-D0.5	13		0925		1x4oz+2x2oz		X	X	X		X	X	X	X	X	X	
14	SB-6-D2.0	14		0929		1x4oz												Hold
15	SB-6-D3.0	15		0933		1x4oz					EB							Hold

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y / N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

TURN AROUND TIME

☐ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY ☑ PDF ☐ GEOTRACKER (GLOBAL ID) _____ ☐ OTHER (PLEASE SPECIFY) _____

	RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:	G. Yalom		
Printed Name:	Edward Debiss		
Date / Time:	4/5/2023 1630		
	RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: 3.**
Signature:			
Printed Name:			LILY N.
Date / Time:			04-05-23 16:30

Page 4 of 65

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CHAIN OF CUSTODY RECORD

108479

AETL JOB No. BED0016

COMPANY: Parsons
PROJECT MANAGER: Justin Long
COMPANY ADDRESS: 100 W. Walnut Street Pasadena, CA 91124
PHONE: (310) 809-5793
FAX:
PROJECT NAME: Canoga Park High School
PROJECT #:
SITE NAME AND ADDRESS: 6850 CA-27, Canoga Park, CA 91303
PO #:

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	OCPs (8081A)	STLC - As	TLCP - As	STLC - Pb	TLCP - Pb	TEST INSTRUCTIONS & COMMENTS
1	SB-40-D0.5	BED0016-16	4/5/23	0717	Soil	1x 9oz	NONE	X	X	X					
2	SB-40-D2.0	17		0720											Hold
3	SB-40-D3.0	18		0723											Hold
4	SB-38-D0.5	19		0827				X	X	X	X				
5	SB-38-D0.5-DUP	20		0832				X	X	X	X	X			Duplicate
6	SB-38-D2.0	21		0834					X						Hold
7	SB-38-D3.0	22		0837											Hold
8	SB-55-D0.5	23		0948				X	X	X					
9	SB-55-D2.0	24		0952					X						Hold
10	SB-55-D3.0	25		0955											Hold
11	SB-7-D0.5	26		1002				X	X	X					
12	SB-7-D0.5-DUP	27		1007				X	X	X					Duplicate
13	SB-7-D2.0	28		1009					X						Hold
14	SB-7-D3.0	29		1012											Hold
15	SB-13-D0.5	30		1041				X	X	X					

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y/ N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

TURN AROUND TIME

☑ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

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	1.	2.	3.
RELINQUISHED BY SAMPLER:		RELINQUISHED BY:	RELINQUISHED BY:
Signature:	E. Dibsy		
Printed Name:	Edward Dibsy		
Date:	4/5/2023		
Time:	1630		
RECEIVED BY:		RECEIVED BY:	RECEIVED BY LABORATORY:
Signature:			Rily Nakaya
Printed Name:			Rily N.
Date:			04-05-2023
Time:			16:30

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CHAIN OF CUSTODY RECORD

108484

AETL JOB No. BED0016

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut Street, Pasadena, CA 91124
PHONE FAX: (310) 809-5793
PROJECT NAME: Canoga Park High School
PROJECT #:
SITE NAME AND ADDRESS: 6850 CA-27, Canoga Park, CA 91303
PO #:

ANALYSIS REQUESTED

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	OCPs (8081A)	PCBs (8082)	Asbestos (PCM)	PAHs (8270C)	Cr(VI) (7199)	Cd+Ni (6010B)	Mercury (7470A)	STLC-As	TEST INSTRUCTIONS & COMMENTS
1	SB-11-D0.5	BED0016 31	4/5/2023	1100	Soil	1x9oz+2x2oz	NONE	X	X	X	X	X	X	X	X	X		
2	SB-11-D2.0	32		1106		1x9oz												Hold
3	SB-11-D3.0	33		1109		1x9oz												Hold
4	SB-42-D0.5	34		1300		1x9oz+2x2oz		X	X	X	X	X	X	X	X	X		
5	SB-42-D2.0	35		1305		1x9oz												Hold
6	SB-42-D3.0	36		1310		1x9oz												Hold
7	SB-45-D0.5	37		1354		1x9oz+2x2oz		X	X	X	X	X	X	X	X	X		
8	SB-45-D2.0	38		1358		1x9oz												Hold
9	SB-45-D3.0	39		1402		1x9oz												Hold
10	SB-47-D0.5	40		1437		1x9oz+2x2oz		X	X	X	X	X	X	X	X	X		
11	SB-47-D2.0	41		1439		1x9oz			X									Hold
12	SB-47-D3.0	42		1443		1x9oz												Hold
13	SB-44-D0.5	43		1412		1x9oz		X	X	X							X	
14	SB-44-D2.0	44		1416		1x9oz		~~X~~	~~X~~	~~X~~	ED.							Hold
15	SB-44-D3.0	45		1420		1x9oz		~~X~~	~~X~~	~~X~~	ED.							Hold

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y/ N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: [signature]	Signature:	Signature:
Printed Name: Edward Dobrys	Printed Name:	Printed Name:
Date: 4/5/2023 Time: 1630	Date: Time:	Date: Time:

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: 3.
Signature:	Signature:	Signature: [signature]
Printed Name:	Printed Name:	Printed Name: LILY N.
Date: Time:	Date: Time:	Date: 04-05-2023 Time: 16:30

TURN AROUND TIME

☑ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

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CHAIN OF CUSTODY RECORD

108481

AETL JOB No. BE-D00116

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut Street Pasadena, CA 91124
PHONE / FAX: (310) 809-5793
PROJECT NAME: Canoga Park Highschool
PROJECT #:
SITE NAME AND ADDRESS: 6850 CA-27, Canoga Park, CA 91303
PO #:

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	OCPs (8081A)	TEST INSTRUCTIONS & COMMENTS
1	SB-13-D2.0	BE-D00116-1	04/5/2023	1044	So.1	1x9oz.	NONE				Hold
2	SB-13-D3.0	47		1047							Hold
3	SB-14-D0.5	48		1133				X	X	X	
4	SB-14-D2.0	49		1137							Hold
5	SB-14-D3.0	50		1141							Hold
6	SB-41-D0.5	51		1237				X	X	X	
7	SB-41-D2.0	52		1243							Hold
8	SB-41-D3.0	53		1248							Hold
9	SB-43-D0.5	54		1321				X	X	X	
10	SB-43-D2.0	55		1324					X		Hold
11	SB-43-D3.0	56		1327							Hold
12	SB-46-D0.5	57		1337				X	X	X	
13	SB-46-D2.0	58		1340							Hold
14	SB-46-D3.0	59		1344							Hold
15											

ED. ED.

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y / N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

TURN AROUND TIME

☑ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

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RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: E. Davis	Signature:	Signature:
Printed Name: Edward Davis	Printed Name:	Printed Name:
Date: 4/5/2023 Time: 1630	Date: Time:	Date: Time:
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: 3.**
Signature:	Signature:	Signature:
Printed Name:	Printed Name:	Printed Name: LILY N.
Date: Time:	Date: Time:	Date: 04-05-2023 Time: 16:30

Page 7 of 65

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COOLER RECEIPT FORM

Client Name: Parsons

Project Name: Canoga Park High School Project No.:

AETL Job Number: BED0016

Date Received: 04-05-23 Received by: Lily N.

Carrier: ☑ AETL Courier ☐ Client ☐ GSL ☐ FedEx ☐ UPS
☐Others:

Samples were received in: ☑ Cooler (__2_____) ☐ Other (Specify):

Sample Container Temperature: __5.5__ °C IR Gun S/N: 51941911MV

Type of sample containers: ☐ VOA, ☐ Glass bottles, ☑Wide mouth jars, ☐HDPE bottles, ☐ Metal sleeves, ☐ Acetate sleeves, ☐ 5035 Kit: ☐ AETL or ☐ Client, ☐ Tedlar Bags, Summa Canister: ☐ 6L, ☐ 3L, ☐ 1L, Others (Specify): _____

How are samples preserved: ☐ None, ☑ Ice, ☐ Blue Ice, ☐ Dry Ice
☑ None, ☐ HNO_3, ☐ NaOH, ☐ ZnOAc, ☐ HCl, ☐ $Na_2S_2O_3$, ☐ MeOH, ☐ $NaHSO_4$
☐ Other (Specify):

	Yes	No	N/A	Note or Comment
1. Are the COCs Correct?	✔			
2. Are Sample labels legible & indelible ink?	✔			
3. Do samples match the COC?	✔			
4. Are the required analyses clear?	✔			
5. Is there enough samples for required analysis?	✔			
6. Does cooler or samples have custody seal(s)?			✔	
7. Are sample containers in good condition?	✔			
8. Are samples preserved?	✔			
9. Are samples preserved properly for the intended analysis?	✔			
10. Are the VOAs free of headspace? See footnote.			✔	
11. Are the jars free of headspace?			✔	

* = see note below. N/A = Not Applicable

PLEASE NOTE ALL SAMPLES WILL BE DISPOSED OF 30 DAYS AFTER RECEIVING DATE. IF AETL IS INFORMED OTHERWISE, THERE WILL BE A STORAGE CHARGE PER SAMPLE PER MONTH FOR ANY SAMPLE HELD BEYOND 30 DAYS.

◯ Example maximum headspace bubble size; acceptance criteria not to exceed 5-6 mm in diameter.

For headspace bubbles exceeding 6 mm in diameter, sample receiving will tag the VOA and notify the Project Manager. The Project Manager will contact client for Analyze or Resample instructions.

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/25/2023 15:23

Case Narrative

The following "Sample Received" Section summarizes the samples received and associated analyses requested as specified on the enclosed chain of custody.

Results as reported by the laboratory apply only to 1) the items tested, 2) as the samples are received, and 3) the accuracy of information provided. Information supplied by the customer that may affect validity of results and may be contained in this report include Project Name/Number, Site Location, Sample Locations, Sampling Dates/Times, Sample ID, Sample Preservation, Sample Matrix, Sample Properties, Field Blanks, Field Duplicates, Field Spikes, and Site Historical Data.

Accreditation applies only to the test methods listed on each scope of accreditation held by the laboratory; certifications held by the laboratory may not apply to results supplied in this report.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

Qualifiers are noted in the report.

The samples were subcontracted to AIH Laboratory for EPA-600R-93/116. Please see attached report for results.

The samples were subcontracted to Orange Coast Analytical, Inc. for EPA 6020-As. Please see attached report for results.

The samples were subcontracted to Asset Laboratories for EPA 7199. Please see attached report for results.

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/25/2023 15:23	

Samples Received

AETL received the following samples on 04/05/2023 with the following specifications

Client ID SB-34-D0.5 — **Sample Date** 04/5/2023 7:33

Lab ID BED0016-04 — **Matrix** Soil — **Quantity of Containers** 2

Method	Analyte	Units	TAT
EPA 6010B-1311 TCLP	TCLP Arsenic by ICP	mg/L	5
EPA 6010B-STLC	STLC Arsenic by ICP	mg/L	5

Client ID SB-35-D0.5 — **Sample Date** 04/5/2023 7:53

Lab ID BED0016-07 — **Matrix** Soil — **Quantity of Containers** 2

Method	Analyte	Units	TAT
EPA 6010B-STLC	STLC Lead by ICP	mg/L	5

Client ID SB-35-D2.0 — **Sample Date** 04/5/2023 7:58

Lab ID BED0016-08 — **Matrix** Soil — **Quantity of Containers** 1

Method	Analyte	Units	TAT
EPA 6010B	Lead, total by ICP	mg/kg	5

Client ID SB-39-D0.5 — **Sample Date** 04/5/2023 8:52

Lab ID BED0016-10 — **Matrix** Soil — **Quantity of Containers** 4

Method	Analyte	Units	TAT
EPA 6010B-1311 TCLP	TCLP Lead by ICP	mg/L	5

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/25/2023 15:23

Samples Received
(Continued)

AETL received the following samples on 04/05/2023 with the following specifications

EPA 6010B-STLC	STLC Lead by ICP	mg/L	5

Client ID: SB-39-D2.0 **Sample Date:** 04/5/2023 8:56
Lab ID: BED0016-11 **Matrix:** Soil **Quantity of Containers:** 1

Method	Analyte	Units	TAT
EPA 6010B	Lead, total by ICP	mg/kg	5

Client ID: SB-38-D0.5 **Sample Date:** 04/5/2023 8:27
Lab ID: BED0016-19 **Matrix:** Soil **Quantity of Containers:** 2

Method	Analyte	Units	TAT
EPA 6010B-STLC	STLC Arsenic by ICP	mg/L	5

Client ID: SB-38-D0.5-Dup **Sample Date:** 04/5/2023 8:32
Lab ID: BED0016-20 **Matrix:** Soil **Quantity of Containers:** 2

Method	Analyte	Units	TAT
EPA 6010B-1311 TCLP	TCLP Arsenic by ICP	mg/L	5
EPA 6010B-STLC	STLC Arsenic by ICP	mg/L	5

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/25/2023 15:23	

Samples Received

(Continued)

AETL received the following samples on 04/05/2023 with the following specifications

Client ID	Sample Date
SB-44-D0.5	04/5/2023 14:12

Lab ID	Matrix	Quantity of Containers
BED0016-43	Soil	2

Method	Analyte	Units	TAT
EPA 6010B-STLC	STLC Arsenic by ICP	mg/L	5

Total Number of Samples received: 8

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/25/2023 15:23	

Positive Hits Summary

Lab ID	Client ID				Sampled
BED0016-04	SB-34-D0.5				04/05/2023 07:33
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B-STLC	Arsenic	9.25		mg/L	04/21/2023 15:20
EPA 6010B-1311 TCLP	Arsenic	2.28		mg/L	04/21/2023 14:44

Lab ID	Client ID				Sampled
BED0016-07	SB-35-D0.5				04/05/2023 07:53
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B-STLC	Lead	2.52		mg/L	04/21/2023 15:26

Lab ID	Client ID				Sampled
BED0016-08	SB-35-D2.0				04/05/2023 07:58
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	6.85		mg/kg	04/19/2023 13:46

Lab ID	Client ID				Sampled
BED0016-10	SB-39-D0.5				04/05/2023 08:52
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B-STLC	Lead	6.82		mg/L	04/21/2023 15:30
EPA 6010B-1311 TCLP	Lead	0.129		mg/L	04/21/2023 14:51

Lab ID	Client ID				Sampled
BED0016-11	SB-39-D2.0				04/05/2023 08:56
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	5.45		mg/kg	04/19/2023 13:49

Lab ID	Client ID				Sampled
BED0016-19	SB-38-D0.5				04/05/2023 08:27
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B-STLC	Arsenic	4.12		mg/L	04/21/2023 15:33

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/25/2023 15:23

Positive Hits Summary
(Continued)

Lab ID	Client ID				Sampled
BED0016-20	SB-38-D0.5-Dup				04/05/2023 08:32
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B-STLC	**Arsenic**	**4.05**		**mg/L**	**04/21/2023 15:42**
EPA 6010B-1311 TCLP	**Arsenic**	**1.16**		**mg/L**	**04/21/2023 14:54**

Lab ID	Client ID				Sampled
BED0016-43	SB-44-D0.5				04/05/2023 14:12
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B-STLC	**Arsenic**	**2.37**		**mg/L**	**04/21/2023 15:45**

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/25/2023 15:23	

Analytical Results

Client ID: SB-34-D0.5
Lab ID: BED0016-04 (Soil) **Sampled:** 04/05/23 7:33

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
STLC Analysis											
Method: EPA 6010B-STLC											
Arsenic	**9.25**		1	0.0100	0.0500	mg/L	04/20/23 12:00	04/21/23 15:20	B3D0259	LE	3050B
TCLP Analysis											
Method: EPA 6010B-1311 TCLP											
Arsenic	**2.28**		1	0.250	0.500	mg/L	04/19/23 12:52	04/21/23 14:44	B3D0247	LE	3050B

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/25/2023 15:23	

Analytical Results

Client ID: SB-35-D0.5
Lab ID: BED0016-07 (Soil) **Sampled:** 04/05/23 7:53

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
STLC Analysis											
Method: EPA 6010B-STLC											
Lead	**2.52**		1	0.0100	0.0500	mg/L	04/20/23 12:00	04/21/23 15:26	B3D0259	LE	3050B

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/25/2023 15:23	

Analytical Results

Client ID: SB-35-D2.0

Lab ID: BED0016-08 (Soil) **Sampled: 04/05/23 7:58**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Lead	**6.85**		1	0.550	5.00	mg/kg	04/18/23 14:30	04/19/23 13:46	B3D0232	LE	3050B

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/25/2023 15:23	

Analytical Results

Client ID: SB-39-D0.5
Lab ID: BED0016-10 (Soil) **Sampled:** 04/05/23 8:52

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
STLC Analysis											
Method: EPA 6010B-STLC											
Lead	**6.82**		1	0.0100	0.0500	mg/L	04/20/23 12:00	04/21/23 15:30	B3D0259	LE	3050B
TCLP Analysis											
Method: EPA 6010B-1311 TCLP											
Lead	**0.129**		1	0.00500	0.0250	mg/L	04/19/23 12:52	04/21/23 14:51	B3D0247	LE	3050B

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/25/2023 15:23	

Analytical Results

Client ID: SB-39-D2.0

Lab ID: BED0016-11 (Soil) **Sampled: 04/05/23 8:56**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Lead	**5.45**		1	0.550	5.00	mg/kg	04/18/23 14:30	04/19/23 13:49	B3D0232	LE	3050B

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Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/25/2023 15:23	

Analytical Results

Client ID: SB-38-D0.5
Lab ID: BED0016-19 (Soil) **Sampled:** 04/05/23 8:27

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
STLC Analysis											
Method: EPA 6010B-STLC											
Arsenic	**4.12**		1	0.0100	0.0500	mg/L	04/20/23 12:00	04/21/23 15:33	B3D0259	LE	3050B

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100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/25/2023 15:23	

Analytical Results

Client ID: SB-38-D0.5-Dup
Lab ID: BED0016-20 (Soil) **Sampled:** 04/05/23 8:32

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
STLC Analysis											
Method: EPA 6010B-STLC											
Arsenic	**4.05**		1	0.0100	0.0500	mg/L	04/20/23 12:00	04/21/23 15:42	B3D0259	LE	3050B
TCLP Analysis											
Method: EPA 6010B-1311 TCLP											
Arsenic	**1.16**		1	0.250	0.500	mg/L	04/19/23 12:52	04/21/23 14:54	B3D0247	LE	3050B

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/25/2023 15:23	

Analytical Results

Client ID: SB-44-D0.5
Lab ID: BED0016-43 (Soil) **Sampled:** 04/05/23 14:12

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
STLC Analysis											
Method: EPA 6010B-STLC											
Arsenic	**2.37**		1	0.0100	0.0500	mg/L	04/20/23 12:00	04/21/23 15:45	B3D0259	LE	3050B

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/25/2023 15:23

Quality Control Results

STLC Analysis (EPA 6010B-STLC)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0259 - 3050B					**Prepared: 04/20/2023 12:00**						
Method Blank (B3D0259-BLK1)					**Analyzed: 04/21/2023 15:10**						
Arsenic	0.0183	0.0100	0.0500	mg/L							B1, J
Lead	ND	0.0100	0.0500	mg/L							

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/25/2023 15:23	

Quality Control Results

STLC Analysis (EPA 6010B-STLC)

Analyte	Result		RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0259 - 3050B (Continued)					**Prepared: 04/20/2023 12:00**						
LCS (B3D0259-BS1)					**Analyzed: 04/21/2023 15:13**						
Arsenic	17.7		0.0500	mg/L	20.0		88.7	75-125			
Lead	18.8		0.0500	mg/L	20.0		94.0	75-125			
LCSD (B3D0259-BSD1)					**Analyzed: 04/21/2023 15:17**						
Arsenic	18.1		0.0500	mg/L	20.0		90.3	75-125	1.83	15	
Lead	18.8		0.0500	mg/L	20.0		94.0	75-125	0.0552	15	
Duplicate (B3D0259-DUP1)		**Source: BED0016-04**			**Analyzed: 04/21/2023 15:23**						
Arsenic	9.58	0.0100	0.0500	mg/L		9.25			3.42	15	
Lead	0.370	0.0100	0.0500	mg/L		0.396			6.75	15	

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AMERICAN ENVIRONMENTAL TESTING LABORATORY, LLC
2840 North Naomi Street, Burbank, CA 91504 • ELAP# 1541 • LACSD# 10181
Telephone (888) 288-AETL • (818) 845-8200 • www.aetlab.com
A KYZER LABS COMPANY

Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/25/2023 15:23

Quality Control Results

TCLP Analysis (EPA 6010B-1311 TCLP)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0247 - 3050B					**Prepared: 04/19/2023 12:52**						
Method Blank (B3D0247-BLK1)					**Analyzed: 04/21/2023 14:35**						
Arsenic	ND	0.250	0.500	mg/L							
Lead	ND	0.00500	0.0250	mg/L							

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/25/2023 15:23	

Quality Control Results

TCLP Analysis (EPA 6010B-1311 TCLP)

Analyte	Result		RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0247 - 3050B (Continued)					**Prepared: 04/19/2023 12:52**						
LCS (B3D0247-BS1)					**Analyzed: 04/21/2023 14:38**						
Arsenic	8.89		0.500	mg/L	10.0		88.9	75-125			
Lead	9.51		0.0250	mg/L	10.0		95.1	75-125			
LCSD (B3D0247-BSD1)					**Analyzed: 04/21/2023 14:41**						
Arsenic	8.96		0.500	mg/L	10.0		89.6	75-125	0.731	20	
Lead	9.37		0.0250	mg/L	10.0		93.7	75-125	1.44	15	
Duplicate (B3D0247-DUP1)		**Source: BED0016-04**			**Analyzed: 04/21/2023 14:48**						
Arsenic	2.31	0.250	0.500	mg/L		2.28			1.39	20	
Lead	0.0485	0.00500	0.0250	mg/L		ND			NA	15	

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/25/2023 15:23

Quality Control Results

Metals Total (EPA 6010B)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0232 - 3050B					**Prepared: 04/18/2023 14:30**						
Method Blank (B3D0232-BLK1)					**Analyzed: 04/19/2023 12:59**						
Lead	ND	0.550	5.00	mg/kg							

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/25/2023 15:23	

Quality Control Results

Metals Total (EPA 6010B)

Analyte	Result		RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0232 - 3050B (Continued)					**Prepared: 04/18/2023 14:30**						
LCS (B3D0232-BS1)					**Analyzed: 04/19/2023 13:03**						
Lead	96.8		5.00	mg/kg	100		96.8	75-125			
LCSD (B3D0232-BSD1)					**Analyzed: 04/19/2023 13:06**						
Lead	95.7		5.00	mg/kg	99.0		96.7	75-125	1.06	15	
Duplicate (B3D0232-DUP1)		**Source: BED0011-02**			**Analyzed: 04/19/2023 13:11**						
Lead	14.9	0.550	5.00	mg/kg		9.70			42.5	20	R
Matrix Spike (B3D0232-MS1)		**Source: BED0011-02**			**Analyzed: 04/19/2023 13:14**						
Lead	96.6	0.550	5.00	mg/kg	100	9.70	86.9	75-125			
Matrix Spike Dup (B3D0232-MSD1)		**Source: BED0011-02**			**Analyzed: 04/19/2023 13:17**						
Lead	98.9	0.550	5.00	mg/kg	100	9.70	89.2	75-125	2.39	15	

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/25/2023 15:23

Qualifiers and Definitions

Item	Qualifiers
B1	This analyte was found in the method blank, which was possibly contaminated during sample preparation. The batch was accepted since this analyte was either not detected or more than 10 times of the blank value for all the samples in the batch.
J	Analyte was detected. However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Reporting Limit (RL).
R	The RPD was outside of QC acceptance limits due to possible matrix interference.

Item	Definitions
% wt	Percent Weight
%REC	Percent Recovery
°F	Degrees Fahrenheit
AETL	American Environmental Testing Laboratory, LLC
C	Carbon
CARB	California Air Resources Board
COC	Chain of Custody
Cresols	3-methylphenol/4-methylphenol coelute and cannot be chromatographically separated. Due to this coeluting isomer pair phenomenon, the laboratory uses a single cresol (4-methylphenol) as calibration standard for 3-methylphenol/4-methylphenol.
CRM	Certified Reference Material
DPD	Department of Planning and Development
DRO	Diesel Range Organics
Dup	Duplicate
ELAP	Environmental Laboratory Accreditation Program
EPA	Environmental Protection Agency
GC/FID	Gas Chromatography Flame Ionization Detection
GRO	Gasoline Range Organics
HC	Hydrocarbon
HEM	Hexane Extractable Material
HMU	Hazardous Material Unit
ICP/MS	Inductively Coupled Plasma Mass Spectrometry
LACSD	Los Angeles County Sanitation Districts
LCS	Laboratory Control Sample - A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes.
LCSD	Laboratory Control Sample Duplicate - A replicate of Laboratory Control Sample.
LOQ	Limit of Quantitation
MDL	Method Detection Limit - The minimum measured concentration of a substance that can be reported with 99% confidence. MDL is statistically derived number which is specific for each instrument, each method and each compound.
mg/kg	Miligrams per Kilogram
mg/L	Miligrams per Liter
ml/L/hr	Milliliter per Liter per Hour

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/25/2023 15:23

MRO	Motor oil Range Organics
MS	Matrix Spike - A sample prepared, taken through all sample preparation and analytical steps of the procedure and analyzed as an independent test results.
MSD	Matrix Spike Duplicate - A replicate of Matrix Spike Sample.
N	No
ND	Analyte is not detected below Method Detection Limit.
ng/m3	Nanograms per cubic meter
NIOSH	National Institute for Occupational Safety and Health
nL/L	Nanoliters per Liter
NTU	Nephelometric Turbidity Units
Ohm-cm	Ohms per centimeter
ORO	Oil Range Organics
OSHA	Occupational Safety and Health Administration
PCB	Polychlorinated Biphenyl
PSU	Practical Salinity Unit
RL	Reporting Limit - The lowest concentration at which an analyte can be detected in a sample and its concentration can be reported with a specified degree of confidence, accuracy and precision. For usage at AETL, RL is equivalant to LOQ.
RPD	Relative Percent Difference
SIM	Selective Ion Monitoring
SM	Standard Method
SPLP	Synthetic Precipitation Leaching Procedure
STLC	Soluble Threshold Limit Concentration
TCLP	Toxicity Characteristic Leaching Procedure
TPH	Total Petroleum Hydrocarbons
TTLC	Total Threshold Limit Concentrations
ug/kg	Micrograms per Kilogram
ug/L	Micrograms per Liter
ug/m3	Micrograms per cubic meter
WET	Waste Extraction Test
Y	Yes
ZHE	Zero Headspace Extraction

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AIH LABORATORY
2556 W Woodland Dr Anaheim, CA 92801

BULK ASBESTOS FIBER ANALYSIS
BY POLARIZED LIGHT MICROSCOPY

NVLAP TESTING
NVLAP LAB CODE 500079-0
Phone:(562) 860-2201
www.aihlab.com

Client Name: American Environmental Testing Laboratory
Project Manager: Joe Sevrean
Client Address: 2840 North Naomi Street Burbank, CA 91504
Project Number: BED0016/ SMPL-352623
Project Location: No Information Provided

Lab Batch Number: 2307666
Samples Submitted: 7
Samples Analyzed: 7
Analysis Method: EPA 600/R-93-116 & EPA 600/M4-82-020

Lab ID: 230766601 **Client ID:** BED0016-01

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Brown soil sandy material	**None Detected**	Cellulose <1%	Binder/Filler, Mineral Grains

Lab ID: 230766602 **Client ID:** BED0016-10

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Brown soil sandy material	**None Detected**	Cellulose <1%	Binder/Filler, Mineral Grains

Lab ID: 230766603 **Client ID:** BED0016-13

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Brown soil sandy material	**None Detected**	Cellulose <1%	Binder/Filler, Mineral Grains

Lab ID: 230766604 **Client ID:** BED0016-31

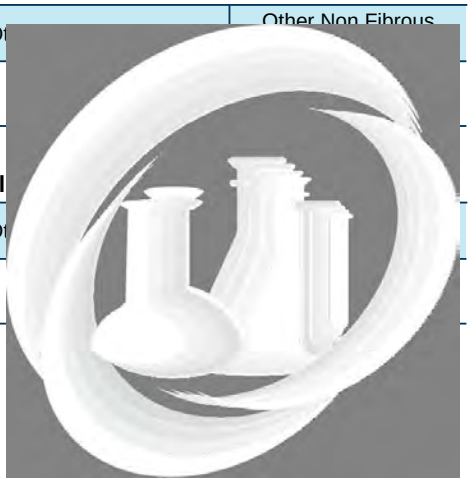
Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Brown soil sandy material	**None Detected**	Cellulose <1%	Binder/Filler, Mineral Grains

Lab ID: 230766605 **Client ID:** BED0016-34

Layer	Layer Description	Asbestos Type %	Ot	Other Non Fibrous
1.	Brown soil sandy material	**None Detected**		

Lab ID: 230766606 **Cl**

Layer	Layer Description	Asbestos Type %	Ot
1.	Brown soil sandy material	**None Detected**	



AIH LABORATORY
2556 W Woodland Dr Anaheim, CA 92801

BULK ASBESTOS FIBER ANALYSIS
BY POLARIZED LIGHT MICROSCOPY

NVLAP TESTING
NVLAP LAB CODE 500079-0
Phone:(562) 860-2201
www.aihlab.com

Client Name: American Environmental Testing Laboratory
Project Manager: Joe Sevrean
Client Address: 2840 North Naomi Street Burbank, CA 91504
Project Number: BED0016/ SMPL-352623
Project Location: No Information Provided

Lab Batch Number: 2307666
Samples Submitted: 7
Samples Analyzed: 7
Analysis Method: EPA 600/R-93-116 & EPA 600/M4-82-020

Lab ID: 230766607 **Client ID:** BED0016-40

Layer	Layer Description	**Asbestos Type %**	Other Fibrous Material %	Other Non Fibrous Material
1.	Brown soil sandy material	**None Detected**	Cellulose <1%	Binder/Filler, Mineral Grains

Analyzed by: Hanaa Armanious **Signature:** Hanaa **Date:** 04-10-2023

Reviewed by: Zubair Ahmed **Signature:**  **Date:** 04-10-2023

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Orange Coast Analytical, Inc.
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LABORATORY REPORT FORM

ORANGE COAST ANALYTICAL, INC.

3002 Dow Suite 532 Tustin, CA 92780

(714) 832-0064

Laboratory Certification (ELAP) No.:2576
Expiration Date: 2023
Los Angeles County Sanitation District Lab ID# 10206

Laboratory Director's Name:
Mark Noorani

Client:	American Environmental Testing Laboratory
Laboratory Reference:	AETL 27831
Project Name:	BED0016
Project Number:	BED0016
Date Received:	4/6/2023
Date Reported:	4/12/2023
Chain of Custody Received:	☑
Analytical Method:	6020,

Mark Noorani, Laboratory Director

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Rev1.0

Ms. Hailley Coleman
American Environmental Testing Laboratory
2840 Naomi St
Burbank, CA, 91504

Lab Reference #: AETL 27831
Project Name: BED0016
Project #: BED0016

Case Narrative

Sample Receipt:

All samples on the Chain of Custody were received by OCA at 3ºC, on ice.

Holding Times:

All samples were analyzed within required holding times unless otherwise noted in the data qualifier section of the report.

Analytical Methods:

Sample analysis was performed following the analytical methods listed on the cover page.

Data Qualifiers:

Within this report, data qualifiers may have been assigned to clarify deviations in common laboratory procedures or any divergence from laboratory QA/QC criteria. If a data qualifier has been used, it will appear in the back of the report along with its description. All method QA/QC criteria have been met unless otherwise noted in the data qualifier section.

Definition of Terms:

The definitions of common terms and acronyms used in the report have been placed at the back of the report to assist data users.

Comments:

None

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Ms. Hailley Coleman
American Environmental Testing Laboratory
2840 Naomi St
Burbank, CA, 91504

Lab Reference #: AETL 27831
Project Name: BED0016
Project #: BED0016

Client Sample Summary

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0016-01	27831-001	4/6/2023	4/5/2023	Soil
BED0016-04	27831-002	4/6/2023	4/5/2023	Soil
BED0016-07	27831-003	4/6/2023	4/5/2023	Soil
BED0016-10	27831-004	4/6/2023	4/5/2023	Soil
BED0016-13	27831-005	4/6/2023	4/5/2023	Soil
BED0016-16	27831-006	4/6/2023	4/5/2023	Soil
BED0016-19	27831-007	4/6/2023	4/5/2023	Soil
BED0016-20	27831-008	4/6/2023	4/5/2023	Soil
BED0016-23	27831-009	4/6/2023	4/5/2023	Soil
BED0016-26	27831-010	4/6/2023	4/5/2023	Soil
BED0016-27	27831-011	4/6/2023	4/5/2023	Soil
BED0016-30	27831-012	4/6/2023	4/5/2023	Soil
BED0016-31	27831-013	4/6/2023	4/5/2023	Soil
BED0016-34	27831-014	4/6/2023	4/5/2023	Soil
BED0016-37	27831-015	4/6/2023	4/5/2023	Soil
BED0016-40	27831-016	4/6/2023	4/5/2023	Soil
BED0016-43	27831-017	4/6/2023	4/5/2023	Soil
BED0016-48	27831-018	4/6/2023	4/5/2023	Soil
BED0016-51	27831-019	4/6/2023	4/5/2023	Soil
BED0016-54	27831-020	4/6/2023	4/5/2023	Soil
BED0016-57	27831-021	4/6/2023	4/5/2023	Soil

Ms. Hailley Coleman
American Environmental Testing Laboratory
2840 Naomi St
Burbank, CA, 91504

Lab Reference #: AETL 27831
Project Name: BED0016
Project #: BED0016

Metals

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0016-01	27831-001	4/6/2023 12:25	4/5/2023 6:56	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	8.7	mg/kg	04/11/23 09:00	04/12/23 07:45	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0016-04	27831-002	4/6/2023 12:25	4/5/2023 7:33	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	200	mg/kg	04/11/23 09:00	04/12/23 08:06	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0016-07	27831-003	4/6/2023 12:25	4/5/2023 7:53	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	17	mg/kg	04/11/23 09:00	04/12/23 08:09	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0016-10	27831-004	4/6/2023 12:25	4/5/2023 8:52	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	16	mg/kg	04/11/23 09:00	04/12/23 08:12	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0016-13	27831-005	4/6/2023 12:25	4/5/2023 9:25	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	8.8	mg/kg	04/11/23 09:00	04/12/23 08:15	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0016-16	27831-006	4/6/2023 12:25	4/5/2023 7:17	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	7.0	mg/kg	04/11/23 09:00	04/12/23 08:19	--	1

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American Environmental Testing Laboratory
2840 Naomi St
Burbank, CA, 91504

Lab Reference #: AETL 27831
Project Name: BED0016
Project #: BED0016

Metals

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0016-19	27831-007	4/6/2023 12:25	4/5/2023 8:27	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	83	mg/kg	04/11/23 09:00	04/12/23 08:22	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0016-20	27831-008	4/6/2023 12:25	4/5/2023 8:32	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	120	mg/kg	04/11/23 09:00	04/12/23 08:25	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0016-23	27831-009	4/6/2023 12:25	4/5/2023 9:48	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	21	mg/kg	04/11/23 09:00	04/12/23 08:28	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0016-26	27831-010	4/6/2023 12:25	4/5/2023 10:02	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	37	mg/kg	04/11/23 09:00	04/12/23 08:31	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0016-27	27831-011	4/6/2023 12:25	4/5/2023 10:07	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	42	mg/kg	04/11/23 09:00	04/12/23 08:40	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0016-30	27831-012	4/6/2023 12:25	4/5/2023 10:41	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	4.6	mg/kg	04/11/23 09:00	04/12/23 08:43	--	1

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American Environmental Testing Laboratory
2840 Naomi St
Burbank, CA, 91504

Lab Reference #: AETL 27831
Project Name: BED0016
Project #: BED0016

Metals

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0016-31	27831-013	4/6/2023 12:25	4/5/2023 11:00	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	5.0	mg/kg	04/11/23 09:00	04/12/23 08:46	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0016-34	27831-014	4/6/2023 12:25	4/5/2023 13:00	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	4.4	mg/kg	04/11/23 09:00	04/12/23 08:49	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0016-37	27831-015	4/6/2023 12:25	4/5/2023 13:54	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	4.2	mg/kg	04/11/23 09:00	04/12/23 08:52	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0016-40	27831-016	4/6/2023 12:25	4/5/2023 14:37	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	26	mg/kg	04/11/23 09:00	04/12/23 08:55	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0016-43	27831-017	4/6/2023 12:25	4/5/2023 14:12	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	58	mg/kg	04/11/23 09:00	04/12/23 08:59	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0016-48	27831-018	4/6/2023 12:25	4/5/2023 11:33	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	4.7	mg/kg	04/11/23 09:00	04/12/23 09:02	--	1

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Ms. Hailley Coleman
American Environmental Testing Laboratory
2840 Naomi St
Burbank, CA, 91504

Lab Reference #: AETL 27831
Project Name: BED0016
Project #: BED0016

Metals

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0016-51	27831-019	4/6/2023 12:25	4/5/2023 12:37	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	10	mg/kg	04/11/23 09:00	04/12/23 09:05	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0016-54	27831-020	4/6/2023 12:25	4/5/2023 13:21	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	24	mg/kg	04/11/23 09:00	04/12/23 09:08	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0016-57	27831-021	4/6/2023 12:25	4/5/2023 13:37	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	1.8	mg/kg	04/11/23 09:00	04/12/23 09:27	--	1

Client Sample ID	Matrix
Method Blank	Soil

MB ID	ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
MBKL0411232	Arsenic	6020	<1.0	mg/kg	04/11/23 09:00	04/12/23 09:17	--	1

Client Sample ID	Matrix
Method Blank	Soil

MB ID	ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
MBKL0411231	Arsenic	6020	<1.0	mg/kg	04/11/23 09:00	04/12/23 07:35	--	1

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QA/QC Report
for
Metals

Reference #: AETL 27831 Reporting units: ppm

Matrix Spike (MS) / Matrix Spike Duplicate (MSD) **6020**

Laboratory Sample #: 27831-001 **Date of Extraction:** 04/11/23 09:00

Analyte	MS Date of Analysis	MSD Date of Analysis	R1	SPC CONC	MS	MSD	% MS	% MSD	RPD	ACP %MS	ACP RPD	Qualifiers
Arsenic	04/12/23 07:48	04/12/23 07:51	8.70	20.0	29.9	29.8	106	105	0	75-125	20	--

Laboratory Control Spike (LCS) / Laboratory Control Spike Duplicate (LCSD) **6020**

Laboratory Sample #: KL0411231 **Date of Extraction:** 04/11/23 09:00

Analyte	LCS Date of Analysis	LCSD Date of Analysis		SPC CONC	LCS	LCSD	% LCS	% LCSD	RPD	ACP %LCS	ACP RPD	Qualifiers
Arsenic	04/12/23 07:38	04/12/23 07:42	--	20.0	21.4	20.9	107	104	2	80-120	20	--

Matrix Spike (MS) / Matrix Spike Duplicate (MSD) **6020**

Laboratory Sample #: 27831-021 **Date of Extraction:** 04/11/23 09:00

Analyte	MS Date of Analysis	MSD Date of Analysis	R1	SPC CONC	MS	MSD	% MS	% MSD	RPD	ACP %MS	ACP RPD	Qualifiers
Arsenic	04/12/23 09:30	04/12/23 09:33	1.80	20.0	22.7	22.1	105	102	3	75-125	20	--

Laboratory Control Spike (LCS) / Laboratory Control Spike Duplicate (LCSD) **6020**

Laboratory Sample #: KL0411232 **Date of Extraction:** 04/11/23 09:00

Analyte	LCS Date of Analysis	LCSD Date of Analysis		SPC CONC	LCS	LCSD	% LCS	% LCSD	RPD	ACP %LCS	ACP RPD	Qualifiers
Arsenic	04/12/23 09:20	04/12/23 09:24	--	20.0	21.7	21.9	109	109	1	80-120	20	--

Definition of terms:

R	Result of unspiked laboratory sample used for matrix spike determination.
SP CONC (or Spike Conc.)	Spike concentration added to sample or blank
MS	Matrix Spike sample result
MSD	Matrix Spike Duplicate sample result
%MS	Percent recovery of MS: {(MS-R1) / SP CONC} x100
%MSD	Percent recovery of MSD: {(MSD-R1) / SP CONC} x 100
RPD (for MS/MSD)	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2
LCS	Laboratory Control Sample result
LCSD	Laboratory Control Sample Duplicate result
%LCS	Percent recovery of LCS: {(LCS) / SP CONC} x100
%LCSD	Percent recovery of LCSD: {(LCSD) / SP CONC} x 100
RPD (for LCS/LCSD)	Relative Percent Difference: {(LCS-LCSD) / (LCS+LCSD)} x 100 x 2
ACP %LCS	Acceptable percent recovery range for Laboratory Control Samples.
ACP %MS	Acceptable percent recovery range for Matrix Spike samples
ACP RPD	Acceptable Relative Percent Difference
D	Detectable, result must be greater than zero
Qual	A checked box indicates a data qualifier was utilized and/or required for this analyte see attached explanation.
ND	Analyte Not Detected

27831

AMERICAN ENVIRONMENTAL TESTING LABORATORY, LLC
2840 North Naomi Street, Burbank, CA 91504 • ELAP# 1541 • LACSD# 10181
Telephone (888) 288-AETL • (818) 845-8200 • www.aetlab.com
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SUBCONTRACT CHAIN of CUSTODY

Sending Laboratory:

AETL
AETL, LLC. 2840 N. Naomi Street
Burbank, CA 91504
Phone: 818-845-8200

Project Manager: Hailley Coleman
Email: hcoleman@aetlab.com

Subcontracted Laboratory:

Orange Coast Analytical. Inc.
3002 Dow Ave., Ste. 532
Tustin, CA 92780
Phone: (714) 832-0064
Fax:

Work Order: BED0016 PO #SUB-35262

Analysis	Due	Expires	Comments
Sample ID: BED0016-01 ***Soil*** ***Sampled: 04/05/2023 06:56***			
6020-As (Arsenic, total by ICP/MS)	04/12/2023	10/02/2023 06:56	
Containers Supplied:			
Sample ID: BED0016-04 ***Soil*** ***Sampled: 04/05/2023 07:33***			
6020-As (Arsenic, total by ICP/MS)	04/12/2023	10/02/2023 07:33	
Containers Supplied:			
Sample ID: BED0016-07 ***Soil*** ***Sampled: 04/05/2023 07:53***			
6020-As (Arsenic, total by ICP/MS)	04/12/2023	10/02/2023 07:53	
Containers Supplied:			
Sample ID: BED0016-10 ***Soil*** ***Sampled: 04/05/2023 08:52***			
6020-As (Arsenic, total by ICP/MS)	04/12/2023	10/02/2023 08:52	
Containers Supplied:			
Sample ID: BED0016-13 ***Soil*** ***Sampled: 04/05/2023 09:25***			
6020-As (Arsenic, total by ICP/MS)	04/12/2023	10/02/2023 09:25	

Approved by: HAILLEY COLEMAN 4/6/23
AETL Project Manager Date

Released By AETL Sample Control Date Received By Courier Date

[signature] 4/6/23 12:25 [signature] OCA, CA 4-6-23 1225
Released By Courier Date Received By Subcontract Laboratory Date

On ice @ 3.0 + 023.0°C
LR#3

27831

AMERICAN ENVIRONMENTAL TESTING LABORATORY, LLC
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SUBCONTRACT CHAIN of CUSTODY
(Continued)

Work Order: BED0016 (Continued)

Analysis	Due	Expires	Comments
Containers Supplied:			
6 **Sample ID: BED0016-16** ***Soil Sampled: 04/05/2023 07:17***			
6020-As (Arsenic, total by ICP/MS)	04/12/2023	10/02/2023 07:17	
Containers Supplied:			
7 **Sample ID: BED0016-19** ***Soil Sampled: 04/05/2023 08:27***			
6020-As (Arsenic, total by ICP/MS)	04/12/2023	10/02/2023 08:27	
Containers Supplied:			
8 **Sample ID: BED0016-20** ***Soil Sampled: 04/05/2023 08:32***			
6020-As (Arsenic, total by ICP/MS)	04/12/2023	10/02/2023 08:32	
Containers Supplied:			
9 **Sample ID: BED0016-23** ***Soil Sampled: 04/05/2023 09:48***			
6020-As (Arsenic, total by ICP/MS)	04/12/2023	10/02/2023 09:48	
Containers Supplied:			
10 **Sample ID: BED0016-26** ***Soil Sampled: 04/05/2023 10:02***			
6020-As (Arsenic, total by ICP/MS)	04/12/2023	10/02/2023 10:02	
Containers Supplied:			
11 **Sample ID: BED0016-27** ***Soil Sampled: 04/05/2023 10:07***			
6020-As (Arsenic, total by ICP/MS)	04/12/2023	10/02/2023 10:07	

Approved by:
AETL Project Manager — Date

Released By AETL Sample Control — Date — Received By Courier — Date

[signature] — 4/6/23 12:25 — [signature] OCA, CA — 4-6-23 12.

Released By Courier — Date — Received By Subcontract Laboratory — Date

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SUBCONTRACT CHAIN of CUSTODY
(Continued)

Work Order: BED0016 (Continued)

Analysis	Due	Expires	Comments
Containers Supplied:			
Sample ID: BED0016-30 ***Soil*** ***Sampled: 04/05/2023 10:41***			
6020-As (Arsenic, total by ICP/MS)	04/12/2023	10/02/2023 10:41	
Containers Supplied:			
Sample ID: BED0016-31 ***Soil*** ***Sampled: 04/05/2023 11:00***			
6020-As (Arsenic, total by ICP/MS)	04/12/2023	10/02/2023 11:00	
Containers Supplied:			
Sample ID: BED0016-34 ***Soil*** ***Sampled: 04/05/2023 13:00***			
6020-As (Arsenic, total by ICP/MS)	04/12/2023	10/02/2023 13:00	
Containers Supplied:			
Sample ID: BED0016-37 ***Soil*** ***Sampled: 04/05/2023 13:54***			
6020-As (Arsenic, total by ICP/MS)	04/12/2023	10/02/2023 13:54	
Containers Supplied:			
Sample ID: BED0016-40 ***Soil*** ***Sampled: 04/05/2023 14:37***			
6020-As (Arsenic, total by ICP/MS)	04/12/2023	10/02/2023 14:37	
Containers Supplied:			
Sample ID: BED0016-43 ***Soil*** ***Sampled: 04/05/2023 14:12***			
6020-As (Arsenic, total by ICP/MS)	04/12/2023	10/02/2023 14:12	

Approved by:
AETL Project Manager — Date

Released By AETL Sample Control	Date	Received By Courier	Date
Released By Courier	Date 4/6/23 12:25	Received By Subcontract Laboratory	4-6-23 122 Date

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SUBCONTRACT CHAIN of CUSTODY
(Continued)

Work Order: BED0016 (Continued)

Analysis	Due	Expires	Comments
Containers Supplied:			
Sample ID: BED0016-48 ***Soil*** ***Sampled: 04/05/2023 11:33***			
6020-As (Arsenic, total by ICP/MS)	04/12/2023	10/02/2023 11:33	
Containers Supplied:			
Sample ID: BED0016-51 ***Soil*** ***Sampled: 04/05/2023 12:37***			
6020-As (Arsenic, total by ICP/MS)	04/12/2023	10/02/2023 12:37	
Containers Supplied:			
Sample ID: BED0016-54 ***Soil*** ***Sampled: 04/05/2023 13:21***			
6020-As (Arsenic, total by ICP/MS)	04/12/2023	10/02/2023 13:21	
Containers Supplied:			
Sample ID: BED0016-57 ***Soil*** ***Sampled: 04/05/2023 13:37***			
6020-As (Arsenic, total by ICP/MS)	04/12/2023	10/02/2023 13:37	
Containers Supplied:			

Approved by: _____ _____
AETL Project Manager — Date

Released By AETL Sample Control	Date	Received By Courier	Date
Released By Courier	Date 4/6/23	Received By Subcontract Laboratory	Date 4-6-23 12:

4/6/23 12:25

Sample Receipt Report

Laboratory Reference: AETL 27831 Logged in by: MM

Received:	04/06/23 12:25	Company Name:	American Environmental Testing Labo
Method of Shipment:	Hand Delivered	Project Manager:	Ms. Hailley Coleman
Shipping Container:	Cooler	Project Name:	BED0016
# Shipping Containers:	1	Project #:	BED0016

Sample Quantity
21 Soil

Chain of Custody	Complete ☑	Incomplete ☐	None ☐
Samples On Ice	Yes, Wet ☑	Yes, Blue ☐	No ☐
Observed Temp. (°C): 3	Thermometer ID: IR#3	Adjusted Temp.:	3+(-0)=3
Shipping Intact	Yes ☐	N/A ☑	No ☐
Shipping Custody Seals Intact	Yes ☐	N/A ☑	No ☐
Samples Intact	Yes ☑		No ☐
Sample Custody Seals Intact	Yes ☐	N/A ☑	No ☐
Custody Seals Signed & Dated	Yes ☐	N/A ☑	No ☐
Proper Test Containers	Yes ☑		No ☐
Proper Test Preservations	Yes ☑		No ☐
Samples Within Hold Times	Yes ☑		No ☐
VOAs Have Zero Headspace	Yes ☐	N/A ☑	No ☐
Sample Labels	Complete ☑	Incomplete ☐	None ☐
Sample Information Matches COC	Yes ☑	N/A ☐	No ☐

Notes

Client Notified _____ By _____ On _____

April 12, 2023

Hailley Coleman
American Environmental Testing Laboratory, Inc.
2834 N. Naomi Street
Burbank, CA 91504

TEL: (818) 845-8200
FAX:

Workorder No.: N055842

RE: BED0016

Attention: Hailley Coleman

Enclosed are the results for sample(s) received on April 06, 2023 by ASSET Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562) 219-7435 if I can be of further assistance to your company.

Sincerely,



Ferdinand Paul Lugtu
Laboratory Director

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CLIENT: American Environmental Testing Laborator
Project: BED0016
Lab Order: N055842

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

All sample containers were received intact with proper chain of custody documentation.

Information on sample receipt conditions including discrepancies can be found in attached Sample Receipt Checklist Form.

Cooler temperature and sample preservation were verified upon receipt of samples if applicable.

Samples were analyzed within method holding time.

CLIENT: American Environmental Testing Laborator
Project: BED0016
Lab Order: N055842
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N055842-001A	BED0016-01	Soil	4/5/2023 6:56:00 AM	4/6/2023	4/12/2023
N055842-002A	BED0016-10	Soil	4/5/2023 8:52:00 AM	4/6/2023	4/12/2023
N055842-003A	BED0016-13	Soil	4/5/2023 9:25:00 AM	4/6/2023	4/12/2023
N055842-004A	BED0016-31	Soil	4/5/2023 11:00:00 AM	4/6/2023	4/12/2023
N055842-005A	BED0016-34	Soil	4/5/2023 1:00:00 PM	4/6/2023	4/12/2023
N055842-006A	BED0016-37	Soil	4/5/2023 1:54:00 PM	4/6/2023	4/12/2023
N055842-007A	BED0016-40	Soil	4/5/2023 2:37:00 PM	4/6/2023	4/12/2023

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BED0016-01
Lab Order:	N055842		
Project:	BED0016	**Collection Date:**	4/5/2023 6:56:00 AM
Lab ID:	N055842-001	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC						
EPA 3060A				**EPA 7199**		
RunID: CA01638-IC01_230411A	QC Batch: 99076			PrepDate:	4/10/2023	Analyst: **CR**
Hexavalent Chromium	ND	0.20		mg/Kg	1	4/11/2023 01:27 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BED0016-10
Lab Order:	N055842		
Project:	BED0016	**Collection Date:**	4/5/2023 8:52:00 AM
Lab ID:	N055842-002	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC						
EPA 3060A				**EPA 7199**		
RunID: CA01638-IC01_230411A	QC Batch: 99076			PrepDate:	4/10/2023	Analyst: **CR**
Hexavalent Chromium	ND	0.20		mg/Kg	1	4/11/2023 03:30 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BED0016-13
Lab Order:	N055842		
Project:	BED0016	**Collection Date:**	4/5/2023 9:25:00 AM
Lab ID:	N055842-003	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC						
EPA 3060A				**EPA 7199**		
RunID: CA01638-IC01_230411A	QC Batch: 99076			PrepDate:	4/10/2023	Analyst: **CR**
Hexavalent Chromium	ND	0.20		mg/Kg	1	4/11/2023 03:52 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BED0016-31
Lab Order:	N055842		
Project:	BED0016	**Collection Date:**	4/5/2023 11:00:00 AM
Lab ID:	N055842-004	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC						
EPA 3060A				**EPA 7199**		
RunID: CA01638-IC01_230411A	QC Batch: 99076			PrepDate:	4/10/2023	Analyst: **CR**
Hexavalent Chromium	ND	0.20		mg/Kg	1	4/11/2023 04:15 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BED0016-34
Lab Order:	N055842		
Project:	BED0016	**Collection Date:**	4/5/2023 1:00:00 PM
Lab ID:	N055842-005	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC						
EPA 3060A				**EPA 7199**		
RunID: CA01638-IC01_230411A	QC Batch: 99076			PrepDate:	4/10/2023	Analyst: **CR**
Hexavalent Chromium	ND	0.20		mg/Kg	1	4/11/2023 04:38 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BED0016-37
Lab Order:	N055842		
Project:	BED0016	**Collection Date:**	4/5/2023 1:54:00 PM
Lab ID:	N055842-006	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC						
EPA 3060A				**EPA 7199**		
RunID: CA01638-IC01_230411A	QC Batch: 99076			PrepDate:	4/10/2023	Analyst: **CR**
Hexavalent Chromium	ND	0.20		mg/Kg	1	4/11/2023 05:01 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BED0016-40
Lab Order:	N055842		
Project:	BED0016	**Collection Date:**	4/5/2023 2:37:00 PM
Lab ID:	N055842-007	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC						
EPA 3060A				**EPA 7199**		
RunID: CA01638-IC01_230411A	QC Batch: 99076			PrepDate:	4/10/2023	Analyst: **CR**
Hexavalent Chromium	ND	0.20		mg/Kg	1	4/11/2023 05:46 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: American Environmental Testing Laboratory, Inc.
Work Order: N055842
Project: BED0016

ANALYTICAL QC SUMMARY REPORT

TestCode: CA_7199_S

Sample ID: **LCS-99076**	SampType: **LCS**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/10/2023**	RunNo: **171275**
Client ID: **LCSS**	Batch ID: **99076**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/11/2023**	SeqNo: **5147060**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	3.978	0.20	4.000	0	99.4	80	120				

Sample ID: **MB-99076**	SampType: **MBLK**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/10/2023**	RunNo: **171275**
Client ID: **PBS**	Batch ID: **99076**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/11/2023**	SeqNo: **5147061**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20									

Sample ID: **N055842-001A-REP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/10/2023**	RunNo: **171275**
Client ID: **ZZZZZZ**	Batch ID: **99076**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/11/2023**	SeqNo: **5147063**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20						0	0	20	

Sample ID: **N055842-001A-DUP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/10/2023**	RunNo: **171275**
Client ID: **ZZZZZZ**	Batch ID: **99076**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/11/2023**	SeqNo: **5147064**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20						0	0	20	

Sample ID: **N055842-001A-PS**	SampType: **MS**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date:	RunNo: **171275**
Client ID: **ZZZZZZ**	Batch ID: **99076**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/11/2023**	SeqNo: **5147065**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.007	0.20	3.993	0	100	75	125				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

ANALYTICAL QC SUMMARY REPORT

TestCode: CA_7199_S

Sample ID: **N055842-001A-MS**	SampType: **MS**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/10/2023**	RunNo: **171275**
Client ID: **ZZZZZZ**	Batch ID: **99076**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/11/2023**	SeqNo: **5147066**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	3.983	0.20	3.998	0	99.6	75	125				

Sample ID: **N055842-001A-MSD**	SampType: **MSD**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/10/2023**	RunNo: **171275**
Client ID: **ZZZZZZ**	Batch ID: **99076**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/11/2023**	SeqNo: **5147067**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.063	0.20	3.993	0	102	75	125	3.983	2.00	20	

Sample ID: **N055842-001A-MS-I**	SampType: **MS**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/10/2023**	RunNo: **171275**
Client ID: **ZZZZZZ**	Batch ID: **99076**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/11/2023**	SeqNo: **5147069**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	511.624	10	649.1	0	78.8	75	125				

Sample ID: **N055842-002A-REP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/10/2023**	RunNo: **171275**
Client ID: **ZZZZZZ**	Batch ID: **99076**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/11/2023**	SeqNo: **5147073**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20						0	0	20	

Sample ID: **N055842-003A-REP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/10/2023**	RunNo: **171275**
Client ID: **ZZZZZZ**	Batch ID: **99076**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/11/2023**	SeqNo: **5147075**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20						0	0	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

ANALYTICAL QC SUMMARY REPORT

TestCode: CA_7199_S

Sample ID: **N055842-004A-REP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/10/2023**	RunNo: **171275**
Client ID: **ZZZZZZ**	Batch ID: **99076**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/11/2023**	SeqNo: **5147077**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.065	0.20						0.06965	0	20	

Sample ID: **N055842-005A-REP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/10/2023**	RunNo: **171275**
Client ID: **ZZZZZZ**	Batch ID: **99076**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/11/2023**	SeqNo: **5147079**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20						0	0	20	

Sample ID: **N055842-006A-REP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/10/2023**	RunNo: **171275**
Client ID: **ZZZZZZ**	Batch ID: **99076**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/11/2023**	SeqNo: **5147081**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20						0	0	20	

Sample ID: **N055842-007A-REP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/10/2023**	RunNo: **171275**
Client ID: **ZZZZZZ**	Batch ID: **99076**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/11/2023**	SeqNo: **5147085**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20						0	0	20	

Sample ID: **N055871-005B-REP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/10/2023**	RunNo: **171275**
Client ID: **ZZZZZZ**	Batch ID: **99076**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/11/2023**	SeqNo: **5147087**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20						0	0	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

ANALYTICAL QC SUMMARY REPORT

TestCode: CA_7199_S

Sample ID: **N055871-010B-REP** SampType: **DUP** TestCode: **CA_7199_S** Units: **mg/Kg** Prep Date: **4/10/2023** RunNo: **171275**
Client ID: **ZZZZZZ** Batch ID: **99076** TestNo: **EPA 7199** **EPA 3060A** Analysis Date: **4/11/2023** SeqNo: **5147089**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.075	0.20						0.07652	0	20	

Sample ID: **N055871-015B-REP** SampType: **DUP** TestCode: **CA_7199_S** Units: **mg/Kg** Prep Date: **4/10/2023** RunNo: **171275**
Client ID: **ZZZZZZ** Batch ID: **99076** TestNo: **EPA 7199** **EPA 3060A** Analysis Date: **4/11/2023** SeqNo: **5147091**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.102	0.20						0.1055	0	20	

Sample ID: **N055871-020B-REP** SampType: **DUP** TestCode: **CA_7199_S** Units: **mg/Kg** Prep Date: **4/10/2023** RunNo: **171275**
Client ID: **ZZZZZZ** Batch ID: **99076** TestNo: **EPA 7199** **EPA 3060A** Analysis Date: **4/11/2023** SeqNo: **5147093**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.082	0.20						0.07957	0	20	

Sample ID: **N055871-025B-REP** SampType: **DUP** TestCode: **CA_7199_S** Units: **mg/Kg** Prep Date: **4/10/2023** RunNo: **171275**
Client ID: **ZZZZZZ** Batch ID: **99076** TestNo: **EPA 7199** **EPA 3060A** Analysis Date: **4/11/2023** SeqNo: **5147097**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.152	0.20						0.1449	0	20	

Sample ID: **N055871-030B-REP** SampType: **DUP** TestCode: **CA_7199_S** Units: **mg/Kg** Prep Date: **4/10/2023** RunNo: **171275**
Client ID: **ZZZZZZ** Batch ID: **99076** TestNo: **EPA 7199** **EPA 3060A** Analysis Date: **4/11/2023** SeqNo: **5147099**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20						0	0	20	

Qualifiers:

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- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

ANALYTICAL QC SUMMARY REPORT

TestCode: CA_7199_S

Sample ID: **N055881-001A-REP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/10/2023**	RunNo: **171275**
Client ID: **ZZZZZZ**	Batch ID: **99076**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/11/2023**	SeqNo: **5147101**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20						0	0	20	

Sample ID: **N055881-002A-REP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/10/2023**	RunNo: **171275**
Client ID: **ZZZZZZ**	Batch ID: **99076**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/11/2023**	SeqNo: **5147103**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.093	0.20						0	0	20	

Sample ID: **N055887-001A-REP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/10/2023**	RunNo: **171275**
Client ID: **ZZZZZZ**	Batch ID: **99076**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/11/2023**	SeqNo: **5147105**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20						0	0	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

AMERICAN ENVIRONMENTAL TESTING LABORATORY, LLC
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SUBCONTRACT CHAIN of CUSTODY

Sending Laboratory:

AETL
AETL, LLC. 2840 N. Naomi Street
Burbank, CA 91504
Phone: 818-845-8200
Project Manager: Hailley Coleman
Email: hcoleman@aetlab.com

Subcontracted Laboratory:

ASSET Laboratories
11110 Artesia Blvd.
Cerritos, CA 90703
Phone: (702)307-2659
Fax: (562)219-7435

Work Order: BED0016 PO # SUB-35267

Analysis	Due	Expires	Comments
Sample ID: BED0016-01 *Soil* *Sampled: 04/05/2023 06:56*			
7199 (Chromium Hexavalent by Ion Chromatography)	04/12/2023	05/03/2023 06:56	N055842-001
Containers Supplied:			
Sample ID: BED0016-10 *Soil* *Sampled: 04/05/2023 08:52*			
7199 (Chromium Hexavalent by Ion Chromatography)	04/12/2023	05/03/2023 08:52	-002
Containers Supplied:			
Sample ID: BED0016-13 *Soil* *Sampled: 04/05/2023 09:25*			
7199 (Chromium Hexavalent by Ion Chromatography)	04/12/2023	05/03/2023 09:25	-003
Containers Supplied:			
Sample ID: BED0016-31 *Soil* *Sampled: 04/05/2023 11:00*			
7199 (Chromium Hexavalent by Ion Chromatography)	04/12/2023	05/03/2023 11:00	-004
Containers Supplied:			

CA: 4.6°C IR#1

Approved by: HAILLEY COLEMAN 4/6/23
AETL Project Manager — Date

Released By AETL Sample Control — Date

Received By Courier — Date

Released By Courier — 4/6/23 — Date

Received By Subcontract Laboratory — 4/6/23 1125 — Date

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SUBCONTRACT CHAIN of CUSTODY
(Continued)

Work Order: BED0016 (Continued)

Analysis	Due	Expires	Comments
Sample ID: BED0016-34 ***Soil*** ***Sampled: 04/05/2023 13:00***			
7199 (Chromium Hexavalent by Ion Chromatography)	04/12/2023	05/03/2023 13:00	N055842-005
Containers Supplied:			
Sample ID: BED0016-37 ***Soil*** ***Sampled: 04/05/2023 13:54***			
7199 (Chromium Hexavalent by Ion Chromatography)	04/12/2023	05/03/2023 13:54	-006
Containers Supplied:			
Sample ID: BED0016-40 ***Soil*** ***Sampled: 04/05/2023 14:37***			
7199 (Chromium Hexavalent by Ion Chromatography)	04/12/2023	05/03/2023 14:37	-007
Containers Supplied:			

IA: 4.6° CF#1

Approved by: _____ Date _____
AETL Project Manager

Released By AETL Sample Control	Date	Received By Courier	Date
Released By Courier	Date 4/6/23	Received By Subcontract Laboratory	Date 4/6/23 1125

ASSET Laboratories

Please review the checklist below. Any NO signifies non-compliance. Any non-compliance will be noted and must be understood as having an impact on the quality of the data. All tests will be performed as requested regardless of any compliance issues.

If you have any questions or further instruction, please contact our Project Coordinator at (702) 307-2659.

Cooler Received/Opened On:	4/6/2023	Workorder:	N055842
Rep sample Temp (Deg C):	4.6	IR Gun ID:	1
Temp Blank:	☐ Yes ☑ No		
Carrier name:	Walk-In		
Last 4 digits of Tracking No.:	NA	Packing Material Used:	None
Cooling process:	☑ Ice ☐ Ice Pack ☐ Dry Ice ☐ Other ☐ None		

Sample Receipt Checklist

1. Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
2. Custody seals intact, signed, dated on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
3. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
4. Chain of custody present?	Yes ☑	No ☐	
5. Sampler's name present in COC?	Yes ☐	No ☑	
6. Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
7. Chain of custody agrees with sample labels?	Yes ☑	No ☐	
8. Samples in proper container/bottle?	Yes ☑	No ☐	
9. Sample containers intact?	Yes ☑	No ☐	
10. Sufficient sample volume for indicated test?	Yes ☑	No ☐	
11. All samples received within holding time?	Yes ☑	No ☐	
12. Temperature of rep sample or Temp Blank within acceptable limit?	Yes ☑	No ☐	NA ☐
13. Water - VOA vials have zero headspace?	Yes ☐	No ☐	NA ☑
14. Water - pH acceptable upon receipt? Example: pH > 12 for (CN,S); pH<2 for Metals	Yes ☐	No ☐	NA ☑
15. Did the bottle labels indicate correct preservatives used?	Yes ☐	No ☐	NA ☑
16. Were there Non-Conformance issues at login?	Yes ☑	No ☐	NA ☐
Was Client notified?	Yes ☐	No ☐	NA ☑

Comments:

Checklist Completed By: MR 4/6/2023

Reviewed By:

ASSET Laboratories

WORK ORDER Summary

06-Apr-23

WorkOrder: N055842

Client ID: AETL01

Project: BED0016 **QC Level:** RTNE **Date Received:** 4/6/2023 11:25 AM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N055842-001A	BED0016-01	4/5/2023 6:56:00 AM	4/12/2023	Soil	EPA 3060A	Prep for Hexavalent Chromium	☐	☐	☐	WS-CA
			4/12/2023		EPA 7199	Hexavalent Chromium by IC	☐	☐	☐	WS-CA
N055842-002A	BED0016-10	4/5/2023 8:52:00 AM	4/12/2023		EPA 3060A	Prep for Hexavalent Chromium	☐	☐	☐	WS-CA
			4/12/2023		EPA 7199	Hexavalent Chromium by IC	☐	☐	☐	WS-CA
N055842-003A	BED0016-13	4/5/2023 9:25:00 AM	4/12/2023		EPA 3060A	Prep for Hexavalent Chromium	☐	☐	☐	WS-CA
			4/12/2023		EPA 7199	Hexavalent Chromium by IC	☐	☐	☐	WS-CA
N055842-004A	BED0016-31	4/5/2023 11:00:00 AM	4/12/2023		EPA 3060A	Prep for Hexavalent Chromium	☐	☐	☐	WS-CA
			4/12/2023		EPA 7199	Hexavalent Chromium by IC	☐	☐	☐	WS-CA
N055842-005A	BED0016-34	4/5/2023 1:00:00 PM	4/12/2023		EPA 3060A	Prep for Hexavalent Chromium	☐	☐	☐	WS-CA
			4/12/2023		EPA 7199	Hexavalent Chromium by IC	☐	☐	☐	WS-CA
N055842-006A	BED0016-37	4/5/2023 1:54:00 PM	4/12/2023		EPA 3060A	Prep for Hexavalent Chromium	☐	☐	☐	WS-CA
			4/12/2023		EPA 7199	Hexavalent Chromium by IC	☐	☐	☐	WS-CA
N055842-007A	BED0016-40	4/5/2023 2:37:00 PM	4/12/2023		EPA 3060A	Prep for Hexavalent Chromium	☐	☐	☐	WS-CA
			4/12/2023		EPA 7199	Hexavalent Chromium by IC	☐	☐	☐	WS-CA
N055842-008A	FOLDER	4/12/2023	4/12/2023		Folder	Folder	☐	☐	☐	LAB
			4/12/2023		Folder	Folder	☐	☐	☐	LAB

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April 26, 2023

AETL Job No: BED0016.02
Received Date: 04/05/2023
Project Number: [none]

Parsons
100 West Walnut Street
Pasadena, CA 91124
Telephone: (626) 440-6200

Attention: Justin King

Project Name: Canoga Park High School
Site: 6850 CA-27
Canoga Park, CA 91303

Enclosed please find the results of analyses for samples which were analyzed as specified on the attached chain of custody. If you have any questions concerning this report, please do not hesitate to call.

Checked By: Hailley Coleman
Hailley Coleman
Project Manager

Approved By: Joe Sevrean
Joe Sevrean
Laboratory Director

Table of Contents

Client Project Name: General Soil Testing Project Number: [none]
Work Order Number: BED0016

1 Cover Letter 1
2 Sample Condition on Receipt 3
3 Chain of Custody 4
4 Cooler Receipt Forms 8
5 Case Narrative 9
6 Samples Received 10
7 Positive Hits Summary 13
8 Analytical Results 14
9 Qualifiers and Definitions 15
10 Sub Contracted Analysis 17

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/26/2023 10:29

Sample Condition on Receipt

Cooler ID: Default Cooler **Temperature: 5.5 °C**

Are the COCs Correct	Y		
Labels Legible	Y	Containers In Good Condition	Y
COC/Labels Agree	Y	Samples Preserved Properly	Y
Sufficient Sample Volume	Y	Sufficient Holding Time for all Tests	Y
Sample Labels intact	Y	Received on Ice	Y

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

American Environmental Testing Laboratory Inc.

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Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

CHAIN OF CUSTODY RECORD

108494

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut Street Pasadena, CA 91124
PHONE / FAX: (310) 809-5793
PROJECT NAME: Canoga Park High School
PROJECT #:
SITE NAME AND ADDRESS: 6850 CA-27, Canoga Park, CA 91303
PO #:
AETL JOB No.: BED0016
Page 1 of 4

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	OCPs (8081A)	PCBs (8082A)	Asbestos (PLM)	PAHs (8270C)	Cr (VI) (7199)	Cd+Ni (6010B)	Mercury (7470A)	PCBs (8082)	TEST INSTRUCTIONS & COMMENTS
																		STLC-As TCLP-As STLC-Pb TCLP-Pb
1	SB-33-D0.5	BED0016-01	4/5/2023	0656	Soil	1x4oz+2x2oz	NONE	X	X	X		X	X	X	X	X	X	
2	SB-33-D2.0	02		0659		1x4oz												Hold
3	SB-33-D3.0	03		0705														Hold
4	SB-34-D0.5	04		0733				X	X	X							X	X X
5	SB-34-D2.0	05		0737					X									Hold
6	SB-34-D3.0	06		0743														Hold
7	SB-35-D0.5	07		0753				X	X	X							X	X X
8	SB-35-D2.0	08		0758				X	X									Hold
9	SB-35-D3.0	09		0811														Hold
10	SB-39-D0.5	10		0852		1x4oz+2x2oz		X	X	X		X	X	X	X	X	X	X X
11	SB-39-D2.0	11		0856		1x4oz		X	X									Hold
12	SB-39-D3.0	12		0900		1x4oz												Hold
13	SB-6-D0.5	13		0925		1x4oz+2x2oz		X	X	X		X	X	X	X	X	X	
14	SB-6-D2.0	14		0929		1x4oz												Hold
15	SB-6-D3.0	15		0933		1x4oz					EB							Hold

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y / N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

TURN AROUND TIME

☑ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY ☑ PDF ☐ GEOTRACKER (GLOBAL ID) _____ ☐ OTHER (PLEASE SPECIFY) _____

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: E. Yalom	Signature:	Signature:
Printed Name: Edward Debiss	Printed Name:	Printed Name:
Date: 4/5/2023 Time: 1630	Date: Time:	Date: Time:
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: 3.**
Signature:	Signature:	Signature:
Printed Name:	Printed Name:	Printed Name: LILY N.
Date: Time:	Date: Time:	Date: 04-05-23 Time: 16:30

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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CHAIN OF CUSTODY RECORD

108479

AETL JOB No. BED0016

COMPANY: Parsons
PROJECT MANAGER: Justin Long
COMPANY ADDRESS: 100 W. Walnut Street Pasadena, CA 91124
PHONE: (310) 809-5793
FAX:
PROJECT NAME: Canoga Park High School
PROJECT #:
SITE NAME AND ADDRESS: 6850 CA-27, Canoga Park, CA 91303
PO #:

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	OCPs (8081A)	STLC - As	TLCP - As	STLC - Pb	TLCP - Pb	TEST INSTRUCTIONS & COMMENTS
1	SB-40-D0.5	BE-D0016 16	4/5/23	0717	Soil	1x 9oz	NONE	X	X	X					
2	SB-40-D2.0	17		0720											Hold
3	SB-40-D3.0	18		0723											Hold
4	SB-38-D0.5	19		0827				X	X	X	X				
5	SB-38-D0.5-DUP	20		0832				X	X	X	X	X			Duplicate
6	SB-38-D2.0	21		0834					X						Hold
7	SB-38-D3.0	22		0837											Hold
8	SB-55-D0.5	23		0948				X	X	X					
9	SB-55-D2.0	24		0952					X						Hold
10	SB-55-D3.0	25		0955											Hold
11	SB-7-D0.5	26		1002				X	X	X					
12	SB-7-D0.5-DUP	27		1007				X	X	X					Duplicate
13	SB-7-D2.0	28		1009					X						Hold
14	SB-7-D3.0	29		1012											Hold
15	SB-13-D0.5	30		1041				X	X	X					

ANALYSIS REQUESTED

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y/ N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

TURN AROUND TIME

- [x] NORMAL
- [ ] RUSH
  - [ ] SAME DAY
  - [ ] NEXT DAY
  - [ ] 2 DAYS
  - [ ] 3 DAYS

DATA DELIVERABLE REQUIRED

- [ ] HARD COPY
- [x] PDF
- [ ] GEOTRACKER (GLOBAL ID) _____
- [ ] OTHER (PLEASE SPECIFY) _____

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: E. Dibsy	Signature:	Signature:
Printed Name: Edward Dibsy	Printed Name:	Printed Name:
Date: 4/5/2023 Time: 1630	Date: Time:	Date: Time:
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: 3.**
Signature:	Signature:	Signature: Nataneya
Printed Name:	Printed Name:	Printed Name: RICY N.
Date: Time:	Date: Time:	Date: 04-05-2023 Time: 16:30

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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CHAIN OF CUSTODY RECORD

108484

COMPANY: Parsons
PROJECT MANAGER: Justin Icing
COMPANY ADDRESS: 100 W. Walnut Street, Pasadena, CA 91124
PHONE: (310) 809-5793
FAX:
PROJECT NAME: Canoga Park High School
PROJECT #:
SITE NAME AND ADDRESS: 6850 CA-27, Canoga Park, CA
PO #: 91303

AETL JOB No. BE-D0016

Page 3 of 4

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	OCPs (8081A)	PCBs (8082)	Asbestos (PLM)	PAHs (8270C)	Cr(VI) (7199)	Cd+Ni (6010B)	Mercury (7470A)	STLC-As	TEST INSTRUCTIONS & COMMENTS
1	SB-11-D0.5	BE-D0016 31	4/5/2023	1100	Soil	1x9oz+2x2oz	NONE	X	X	X	X	X	X	X	X	X		
2	SB-11-D2.0	32		1106		1x9oz												Hold
3	SB-11-D3.0	33		1109		1x9oz												Hold
4	SB-42-D0.5	34		1300		1x9oz+2x2oz		X	X	X	X	X	X	X	X	X		
5	SB-42-D2.0	35		1305		1x9oz												Hold
6	SB-42-D3.0	36		1310		1x9oz												Hold
7	SB-45-D0.5	37		1354		1x9oz+2x2oz		X	X	X	X	X	X	X	X	X		
8	SB-45-D2.0	38		1358		1x9oz												Hold
9	SB-45-D3.0	39		1402		1x9oz												Hold
10	SB-47-D0.5	40		1437		1x9oz+2x2oz		X	X	X	X	X	X	X	X	X		
11	SB-47-D2.0	41		1439		1x9oz			X									Hold
12	SB-47-D3.0	42		1443		1x9oz												Hold
13	SB-44-D0.5	43		1412		1x9oz		X	X	X							X	
14	SB-44-D2.0	44		1416		1x9oz		~~X~~	~~X~~	X	ED.							Hold
15	SB-44-D3.0	45		1420		1x9oz		~~X~~	~~X~~	~~X~~	ED.							Hold

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y/ N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

TURN AROUND TIME

☑ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY ☑ PDF ☐ GEOTRACKER (GLOBAL ID) _____ ☐ OTHER (PLEASE SPECIFY) _____

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: E. Dobbs	Signature:	Signature:
Printed Name: Edward Dobbs	Printed Name:	Printed Name:
Date: 4/5/2023 Time: 1630	Date: Time:	Date: Time:
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: 3.**
Signature:	Signature:	Signature: [illegible]
Printed Name:	Printed Name:	Printed Name: HLY N.
Date: Time:	Date: Time:	Date: 04-05-2023 Time: 1630

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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CHAIN OF CUSTODY RECORD

108481

AETL JOB No. BE-D00116

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut Street Pasadena, CA 91124
PHONE / FAX: (310) 809-5793
PROJECT NAME: Canoga Park Highschool
PROJECT #:
SITE NAME AND ADDRESS: 6850 CA-27, Canoga Park, CA 91303
PO #:

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	OCPs (8081A)	TEST INSTRUCTIONS & COMMENTS
1	SB-13-D2.0	BE-D00116-1	04/5/2023	1044	So.1	1x9oz.	NONE				Hold
2	SB-13-D3.0	4		1047							Hold
3	SB-14-D0.5	4		1133				X	X	X	
4	SB-14-D2.0	4		1137							Hold
5	SB-14-D3.0	5		1141							Hold
6	SB-41-D0.5	5		1237				X	X	X	
7	SB-41-D2.0	5		1243							Hold
8	SB-41-D3.0	5		1248							Hold
9	SB-43-D0.5	5		1321				X	X	X	
10	SB-43-D2.0	5		1324					X		Hold
11	SB-43-D3.0	5		1327							Hold
12	SB-46-D0.5	5		1337				X	X	X	
13	SB-46-D2.0	5		1340							Hold
14	SB-46-D3.0	5		1344							Hold
15											

ANALYSIS REQUESTED

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y / N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

TURN AROUND TIME

☑ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY ☑ PDF ☐ GEOTRACKER (GLOBAL ID) _____ ☐ OTHER (PLEASE SPECIFY) _____

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: E. Davis	Signature:	Signature:
Printed Name: Edward Davis	Printed Name:	Printed Name:
Date: 4/5/2023 Time: 1630	Date: Time:	Date: Time:
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: 3.**
Signature:	Signature:	Signature:
Printed Name:	Printed Name:	Printed Name: LILY N.
Date: Time:	Date: Time:	Date: 04-05-2023 Time: 16:30

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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COOLER RECEIPT FORM

Client Name: Parsons

Project Name: Canoga Park High School Project No.:

AETL Job Number: BED0016

Date Received: 04-05-23 Received by: Lily N.

Carrier: ☑ AETL Courier ☐ Client ☐ GSL ☐ FedEx ☐ UPS
☐Others:

Samples were received in: ☑ Cooler (__2_____) ☐ Other (Specify):

Sample Container Temperature: __5.5__ °C IR Gun S/N: 51941911MV

Type of sample containers: ☐ VOA, ☐ Glass bottles, ☑Wide mouth jars, ☐HDPE bottles, ☐ Metal sleeves, ☐ Acetate sleeves, ☐ 5035 Kit: ☐ AETL or ☐ Client, ☐ Tedlar Bags, Summa Canister: ☐ 6L, ☐ 3L, ☐ 1L, Others (Specify): _____

How are samples preserved: ☐ None, ☑ Ice, ☐ Blue Ice, ☐ Dry Ice
☑ None, ☐ HNO_3, ☐ NaOH, ☐ ZnOAc, ☐ HCl, ☐ $Na_2S_2O_3$, ☐ MeOH, ☐ $NaHSO_4$
☐ Other (Specify):

	Yes	No	N/A	Note or Comment
1. Are the COCs Correct?	✔			
2. Are Sample labels legible & indelible ink?	✔			
3. Do samples match the COC?	✔			
4. Are the required analyses clear?	✔			
5. Is there enough samples for required analysis?	✔			
6. Does cooler or samples have custody seal(s)?			✔	
7. Are sample containers in good condition?	✔			
8. Are samples preserved?	✔			
9. Are samples preserved properly for the intended analysis?	✔			
10. Are the VOAs free of headspace? See footnote.			✔	
11. Are the jars free of headspace?			✔	

* = see note below. N/A = Not Applicable

PLEASE NOTE ALL SAMPLES WILL BE DISPOSED OF 30 DAYS AFTER RECEIVING DATE. IF AETL IS INFORMED OTHERWISE, THERE WILL BE A STORAGE CHARGE PER SAMPLE PER MONTH FOR ANY SAMPLE HELD BEYOND 30 DAYS.

◯ Example maximum headspace bubble size; acceptance criteria not to exceed 5-6 mm in diameter.

For headspace bubbles exceeding 6 mm in diameter, sample receiving will tag the VOA and notify the Project Manager. The Project Manager will contact client for Analyze or Resample instructions.

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A KYZER LABS COMPANY

Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/26/2023 10:29

Case Narrative

The following "Sample Received" Section summarizes the samples received and associated analyses requested as specified on the enclosed chain of custody.

Results as reported by the laboratory apply only to 1) the items tested, 2) as the samples are received, and 3) the accuracy of information provided. Information supplied by the customer that may affect validity of results and may be contained in this report include Project Name/Number, Site Location, Sample Locations, Sampling Dates/Times, Sample ID, Sample Preservation, Sample Matrix, Sample Properties, Field Blanks, Field Duplicates, Field Spikes, and Site Historical Data.

Accreditation applies only to the test methods listed on each scope of accreditation held by the laboratory; certifications held by the laboratory may not apply to results supplied in this report.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

Qualifiers are noted in the report.

The samples were subcontracted to AIH Laboratory for EPA-600R-93/116. Please see attached report for results.

The samples were subcontracted to Orange Coast Analytical, Inc. for EPA 6020-As. Please see attached report for results.

The samples were subcontracted to Asset Laboratories for EPA 7199. Please see attached report for results.

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/26/2023 10:29	

Samples Received

AETL received the following samples on 04/05/2023 with the following specifications

Client ID	Sample Date
SB-34-D2.0	04/5/2023 7:37

Lab ID	Matrix	Quantity of Containers
BED0016-05	Soil	1

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Client ID	Sample Date
SB-35-D2.0	04/5/2023 7:58

Lab ID	Matrix	Quantity of Containers
BED0016-08	Soil	1

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Client ID	Sample Date
SB-39-D2.0	04/5/2023 8:56

Lab ID	Matrix	Quantity of Containers
BED0016-11	Soil	1

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Client ID	Sample Date
SB-38-D2.0	04/5/2023 8:34

Lab ID	Matrix	Quantity of Containers
BED0016-21	Soil	1

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

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No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/26/2023 10:29	

Samples Received

(Continued)

AETL received the following samples on 04/05/2023 with the following specifications

Client ID	Sample Date
SB-55-D2.0	04/5/2023 9:52

Lab ID	Matrix	Quantity of Containers
BED0016-24	Soil	1

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Client ID	Sample Date
SB-7-D2.0	04/5/2023 10:09

Lab ID	Matrix	Quantity of Containers
BED0016-28	Soil	1

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Client ID	Sample Date
SB-47-D2.0	04/5/2023 14:39

Lab ID	Matrix	Quantity of Containers
BED0016-41	Soil	1

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Client ID	Sample Date
SB-44-D2.0	04/5/2023 14:16

Lab ID	Matrix	Quantity of Containers
BED0016-44	Soil	1

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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A KYZER LABS COMPANY

Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/26/2023 10:29	

Samples Received

(Continued)

AETL received the following samples on 04/05/2023 with the following specifications

Client ID			Sample Date
SB-43-D2.0			04/5/2023 13:24
Lab ID		**Matrix**	**Quantity of Containers**
BED0016-55		Soil	1

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Total Number of Samples received: 9

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/26/2023 10:29

Positive Hits Summary

Lab ID	Client ID					Sampled
Method	Analyte	Result	Qualifier	Unit		Analyzed

No positive results reported

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/26/2023 10:29

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

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A KYZER LABS COMPANY

Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/26/2023 10:29

Qualifiers and Definitions

Item	Definitions
% wt	Percent Weight
%REC	Percent Recovery
°F	Degrees Fahrenheit
AETL	American Environmental Testing Laboratory, LLC
C	Carbon
CARB	California Air Resources Board
COC	Chain of Custody
Cresols	3-methylphenol/4-methylphenol coelute and cannot be chromatographically separated. Due to this coeluting isomer pair phenomenon, the laboratory uses a single cresol (4-methylphenol) as calibration standard for 3-methylphenol/4-methylphenol.
CRM	Certified Reference Material
DPD	Department of Planning and Development
DRO	Diesel Range Organics
Dup	Duplicate
ELAP	Environmental Laboratory Accreditation Program
EPA	Environmental Protection Agency
GC/FID	Gas Chromatography Flame Ionization Detection
GRO	Gasoline Range Organics
HC	Hydrocarbon
HEM	Hexane Extractable Material
HMU	Hazardous Material Unit
ICP/MS	Inductively Coupled Plasma Mass Spectrometry
LACSD	Los Angeles County Sanitation Districts
LCS	Laboratory Control Sample - A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes.
LCSD	Laboratory Control Sample Duplicate - A replicate of Laboratory Control Sample.
LOQ	Limit of Quantitation
MDL	Method Detection Limit - The minimum measured concentration of a substance that can be reported with 99% confidence. MDL is statistically derived number which is specific for each instrument, each method and each compound.
mg/kg	Miligrams per Kilogram
mg/L	Miligrams per Liter
ml/L/hr	Milliliter per Liter per Hour
MRO	Motor oil Range Organics
MS	Matrix Spike - A sample prepared, taken through all sample preparation and analytical steps of the procedure and analyzed as an independent test results.
MSD	Matrix Spike Duplicate - A replicate of Matrix Spike Sample.
N	No
ND	Analyte is not detected below Method Detection Limit.
ng/m3	Nanograms per cubic meter

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

AMERICAN ENVIRONMENTAL TESTING LABORATORY, LLC
2840 North Naomi Street, Burbank, CA 91504 • ELAP# 1541 • LACSD# 10181
Telephone (888) 288-AETL • (818) 845-8200 • www.aetlab.com
A KYZER LABS COMPANY

Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/26/2023 10:29

NIOSH	National Institute for Occupational Safety and Health
nL/L	Nanoliters per Liter
NTU	Nephelometric Turbidity Units
Ohm-cm	Ohms per centimeter
ORO	Oil Range Organics
OSHA	Occupational Safety and Health Administration
PCB	Polychlorinated Biphenyl
PSU	Practical Salinity Unit
RL	Reporting Limit - The lowest concentration at which an analyte can be detected in a sample and its concentration can be reported with a specified degree of confidence, accuracy and precision. For usage at AETL, RL is equivalant to LOQ.
RPD	Relative Percent Difference
SIM	Selective Ion Monitoring
SM	Standard Method
SPLP	Synthetic Precipitation Leaching Procedure
STLC	Soluble Threshold Limit Concentration
TCLP	Toxicity Characteristic Leaching Procedure
TPH	Total Petroleum Hydrocarbons
TTLC	Total Threshold Limit Concentrations
ug/kg	Micrograms per Kilogram
ug/L	Micrograms per Liter
ug/m3	Micrograms per cubic meter
WET	Waste Extraction Test
Y	Yes
ZHE	Zero Headspace Extraction

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

April 25, 2023

Corey Jones
American Environmental Testing Laboratory, Inc.
2834 N. Naomi Street
Burbank, CA 91504

TEL: (818) 845-8200
FAX:

Workorder No.: N056034

RE: BED0016.01

Attention: Corey Jones

Enclosed are the results for sample(s) received on April 18, 2023 by ASSET Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562) 219-7435 if I can be of further assistance to your company.

Sincerely,



Ferdinand Paul Lugtu
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and ASSET Laboratories - California.

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

All sample containers were received intact with proper chain of custody documentation.

Information on sample receipt conditions including discrepancies can be found in attached Sample Receipt Checklist Form.

Cooler temperature and sample preservation were verified upon receipt of samples if applicable.

Samples were analyzed within method holding time.

Analytical Comments for EPA 6020:

Matrix Spike (MS) is outside recovery criteria for Arsenic in QC sample N056032-001A-MS possibly due to matrix interference. The associated Laboratory Control Sample (LCS) recovery was acceptable.

CLIENT: American Environmental Testing Laborator
Project: BED0016.01
Lab Order: N056034
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N056034-001A	BED0016-05	Soil	4/5/2023 7:37:00 AM	4/18/2023	4/25/2023
N056034-002A	BED0016-08	Soil	4/5/2023 7:58:00 AM	4/18/2023	4/25/2023
N056034-003A	BED0016-11	Soil	4/5/2023 8:56:00 AM	4/18/2023	4/25/2023
N056034-004A	BED0016-21	Soil	4/5/2023 8:34:00 AM	4/18/2023	4/25/2023
N056034-005A	BED0016-24	Soil	4/5/2023 9:52:00 AM	4/18/2023	4/25/2023
N056034-006A	BED0016-28	Soil	4/5/2023 10:09:00 AM	4/18/2023	4/25/2023
N056034-007A	BED0016-41	Soil	4/5/2023 2:39:00 PM	4/18/2023	4/25/2023
N056034-008A	BED0016-44	Soil	4/5/2023 2:16:00 PM	4/18/2023	4/25/2023
N056034-009A	BED0016-55	Soil	4/5/2023 1:24:00 PM	4/18/2023	4/25/2023

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BED0016-05
Lab Order:	N056034		
Project:	BED0016.01	**Collection Date:**	4/5/2023 7:37:00 AM
Lab ID:	N056034-001	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230420B	QC Batch: 99270			PrepDate:	4/19/2023	Analyst: **DJ**
Arsenic	110	2.5		mg/Kg	5	4/20/2023 04:40 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BED0016-08
Lab Order:	N056034		
Project:	BED0016.01	**Collection Date:**	4/5/2023 7:58:00 AM
Lab ID:	N056034-002	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230420B	QC Batch: 99270			PrepDate:	4/19/2023	Analyst: **DJ**
Arsenic	14	0.50		mg/Kg	1	4/20/2023 03:44 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BED0016-11
Lab Order:	N056034		
Project:	BED0016.01	**Collection Date:**	4/5/2023 8:56:00 AM
Lab ID:	N056034-003	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230420B	QC Batch: 99270			PrepDate:	4/19/2023	Analyst: **DJ**
Arsenic	6.7	0.50		mg/Kg	1	4/20/2023 03:48 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BED0016-21
Lab Order:	N056034		
Project:	BED0016.01	**Collection Date:**	4/5/2023 8:34:00 AM
Lab ID:	N056034-004	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230420B	QC Batch: 99270			PrepDate:	4/19/2023	Analyst: **DJ**
Arsenic	12	0.50		mg/Kg	1	4/20/2023 04:07 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BED0016-24
Lab Order:	N056034		
Project:	BED0016.01	**Collection Date:**	4/5/2023 9:52:00 AM
Lab ID:	N056034-005	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230420B	QC Batch: 99270			PrepDate:	4/19/2023	Analyst: **DJ**
Arsenic	7.3	0.50		mg/Kg	1	4/20/2023 04:12 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BED0016-28
Lab Order:	N056034		
Project:	BED0016.01	**Collection Date:**	4/5/2023 10:09:00 AM
Lab ID:	N056034-006	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230420B	QC Batch: 99270			PrepDate:	4/19/2023	Analyst: **DJ**
Arsenic	7.5	0.50		mg/Kg	1	4/20/2023 04:16 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BED0016-41
Lab Order:	N056034		
Project:	BED0016.01	**Collection Date:**	4/5/2023 2:39:00 PM
Lab ID:	N056034-007	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230420B	QC Batch: 99270			PrepDate:	4/19/2023	Analyst: **DJ**
Arsenic	30	0.50		mg/Kg	1	4/20/2023 04:21 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BED0016-44
Lab Order:	N056034		
Project:	BED0016.01	**Collection Date:**	4/5/2023 2:16:00 PM
Lab ID:	N056034-008	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230420B	QC Batch: 99270			PrepDate:	4/19/2023	Analyst: **DJ**
Arsenic	53	0.50		mg/Kg	1	4/20/2023 04:26 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BED0016-55
Lab Order:	N056034		
Project:	BED0016.01	**Collection Date:**	4/5/2023 1:24:00 PM
Lab ID:	N056034-009	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230420B	QC Batch: 99270			PrepDate:	4/19/2023	Analyst: **DJ**
Arsenic	5.5	0.50		mg/Kg	1	4/20/2023 04:30 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: American Environmental Testing Laboratory, Inc.
Work Order: N056034
Project: BED0016.01

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_S_PPM

Sample ID	MB-99270	SampType:	MBLK	TestCode:	6020_S_PPM	Units:	mg/Kg	Prep Date:	4/19/2023	RunNo:	171632
Client ID:	PBS	Batch ID:	99270	TestNo:	EPA 6020	EPA 3050B		Analysis Date:	4/20/2023	SeqNo:	5166757

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.50									

Sample ID	LCS-99270	SampType:	LCS	TestCode:	6020_S_PPM	Units:	mg/Kg	Prep Date:	4/19/2023	RunNo:	171632
Client ID:	LCSS	Batch ID:	99270	TestNo:	EPA 6020	EPA 3050B		Analysis Date:	4/20/2023	SeqNo:	5166758

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	5.125	0.50	5.000	0	102	85	115				

Sample ID	N056032-001A-MSD	SampType:	MSD	TestCode:	6020_S_PPM	Units:	mg/Kg	Prep Date:	4/19/2023	RunNo:	171632
Client ID:	ZZZZZZ	Batch ID:	99270	TestNo:	EPA 6020	EPA 3050B		Analysis Date:	4/20/2023	SeqNo:	5166763

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	41.435	0.50	4.998	37.37	81.4	75	125	41.03	0.979	20	

Sample ID	N056032-001A-MS	SampType:	MS	TestCode:	6020_S_PPM	Units:	mg/Kg	Prep Date:	4/19/2023	RunNo:	171632
Client ID:	ZZZZZZ	Batch ID:	99270	TestNo:	EPA 6020	EPA 3050B		Analysis Date:	4/20/2023	SeqNo:	5166785

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	41.032	0.50	4.995	37.37	73.4	75	125				S

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

N056034

AMERICAN ENVIRONMENTAL TESTING LABORATORY, LLC

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Telephone (888) 288-AETL • (818) 845-8200 • www.aetlab.com

SUBCONTRACT CHAIN of CUSTODY

Sending Laboratory:

AETL
AETL, LLC. 2840 N. Naomi Street
Burbank, CA 91504
Phone: 818-845-8200

Project Manager: Hailley Coleman
Email: hcoleman@aetlab.com

Subcontracted Laboratory:

ASSET Laboratories
11110 Artesia Blvd.
Cerritos, CA 90703
Phone: (702)307-2659
Fax: (562)219-7435

Work Order: BED0016-01 PO # SUB-35304

Analysis	Due	Expires	Comments
~~**Sample ID: BED0016-01**~~ ***Soil*** ***Sampled: 04/05/2023 06:56***			5-DAY TAT
7199 (Chromium Hexavalent by Ion Chromatography)	04/12/2023	05/03/2023 06:56	
Containers Supplied:			
Sample ID: BED0016-05 ***Soil*** ***Sampled: 04/05/2023 07:37***			N056034-001
6020-As (Arsenic, total by ICP/MS)	04/12/2023	10/02/2023 07:37	
Containers Supplied:			
Sample ID: BED0016-08 ***Soil*** ***Sampled: 04/05/2023 07:58***			-002
6020-As (Arsenic, total by ICP/MS)	04/12/2023	10/02/2023 07:58	
Containers Supplied:			
~~**Sample ID: BED0016-10**~~ ***Soil*** ***Sampled: 04/05/2023 08:52***			
7199 (Chromium Hexavalent by Ion Chromatography)	04/12/2023	05/03/2023 08:52	
Containers Supplied:			
Sample ID: BED0016-11 ***Soil*** ***Sampled: 04/05/2023 08:56***			

LV 4.8°C IR#3
GLS 6285

Approved by: HAILLEY COLEMAN 4/18/23
AETL Project Manager — Date

[signature] 4/18/23 1217
Released By AETL Sample Control — Date

[signature] Maribel Ramos 4/18/23 1217
Received By Courier — Date

[signature] Maribel R. 4/18/23 1800
Released By Courier — Date

[signature] 4/19/23 9:37 am
Received By Subcontract Laboratory — Date

CA: # 5.8° C IR#1

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SUBCONTRACT CHAIN of CUSTODY
(Continued)

Work Order: BED0016 (Continued)

Analysis	Due	Expires	Comments
Sample ID: BED0016-11 *Soil* *Sampled: 04/05/2023 08:56*			N056034-003
6020-As (Arsenic, total by ICP/MS)	04/12/2023	10/02/2023 08:56	
Containers Supplied:			
Sample ID: BED0016-13 *Soil* *Sampled: 04/05/2023 09:25*			
7199 (Chromium Hexavalent by Ion Chromatography)	04/12/2023	05/03/2023 09:25	
Containers Supplied:			
Sample ID: BED0016-21 *Soil* *Sampled: 04/05/2023 08:34*			-004
6020-As (Arsenic, total by ICP/MS)	04/12/2023	10/02/2023 08:34	
Containers Supplied:			
Sample ID: BED0016-24 *Soil* *Sampled: 04/05/2023 09:52*			-005
6020-As (Arsenic, total by ICP/MS)	04/12/2023	10/02/2023 09:52	
Containers Supplied:			
Sample ID: BED0016-28 *Soil* *Sampled: 04/05/2023 10:09*			-006
6020-As (Arsenic, total by ICP/MS)	04/12/2023	10/02/2023 10:09	
Containers Supplied:			
Sample ID: BED0016-31 *Soil* *Sampled: 04/05/2023 11:00*			
7199 (Chromium Hexavalent by Ion Chromatography)	04/12/2023	05/03/2023 11:00	
Containers Supplied:			

LV 4.8°C IR#3
625285

Approved by:
AETL Project Manager — Date

Released By AETL Sample Control — 4/18/23 1217 Date
Received By Courier — 4/18/23 1217 Date

Released By Courier — Manbel Ramos 4/18/23 1800 Date
Received By Subcontract Laboratory — 4/19/23 9:27 Date

CA: 5.8°C IR#1

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Telephone (888) 288-AETL • (818) 845-8200 • www.aetlab.com

SUBCONTRACT CHAIN of CUSTODY
(Continued)

Work Order: BED0016 (Continued)

Analysis	Due	Expires	Comments
~~Sample ID: BED0016-34~~ *Soil* *Sampled: 04/05/2023 13:00*			
7199 (Chromium Hexavalent by Ion Chromatography)	04/12/2023	05/03/2023 13:00	
Containers Supplied:			
~~Sample ID: BED0016-37~~ *Soil* *Sampled: 04/05/2023 13:54*			
7199 (Chromium Hexavalent by Ion Chromatography)	04/12/2023	05/03/2023 13:54	
Containers Supplied:			
~~Sample ID: BED0016-40~~ *Soil* *Sampled: 04/05/2023 14:37*			
7199 (Chromium Hexavalent by Ion Chromatography)	04/12/2023	05/03/2023 14:37	
Containers Supplied:			
Sample ID: BED0016-41 *Soil* *Sampled: 04/05/2023 14:39*			N056034-007
6020-As (Arsenic, total by ICP/MS)	04/12/2023	10/02/2023 14:39	
Containers Supplied:			
Sample ID: BED0016-44 *Soil* *Sampled: 04/05/2023 14:16*			-008
6020-As (Arsenic, total by ICP/MS)	04/12/2023	10/02/2023 14:16	
Containers Supplied:			
Sample ID: BED0016-55 *Soil* *Sampled: 04/05/2023 13:24*			-009
6020-As (Arsenic, total by ICP/MS)	04/12/2023	10/02/2023 13:24	

LV 4.8°C IR#3
6256285

Approved by:

AETL Project Manager — Date

Released By AETL Sample Control — Date 4/18/23 1217

Received By Courier — Date 4/18/23 1217

Released By Courier — Date 4/18/23 1800

Received By Subcontract Laboratory — Date 4/19/23 9:37 am

CA: 5.8°C IR#1

ASSET Laboratories

Please review the checklist below. Any NO signifies non-compliance. Any non-compliance will be noted and must be understood as having an impact on the quality of the data. All tests will be performed as requested regardless of any compliance issues.

If you have any questions or further instruction, please contact our Project Coordinator at (702) 307-2659.

Cooler Received/Opened On:	4/18/2023	Workorder:	N056034
Rep sample Temp (Deg C):	5.8	IR Gun ID:	1
Temp Blank:	☐ Yes ☑ No		
Carrier name:	Walk-In		
Last 4 digits of Tracking No.:	NA	Packing Material Used:	None
Cooling process:	☑ Ice ☐ Ice Pack ☐ Dry Ice ☐ Other ☐ None		

Sample Receipt Checklist

1. Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
2. Custody seals intact, signed, dated on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
3. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
4. Chain of custody present?	Yes ☑	No ☐	
5. Sampler's name present in COC?	Yes ☐	No ☑	
6. Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
7. Chain of custody agrees with sample labels?	Yes ☑	No ☐	
8. Samples in proper container/bottle?	Yes ☑	No ☐	
9. Sample containers intact?	Yes ☑	No ☐	
10. Sufficient sample volume for indicated test?	Yes ☑	No ☐	
11. All samples received within holding time?	Yes ☑	No ☐	
12. Temperature of rep sample or Temp Blank within acceptable limit?	Yes ☑	No ☐	NA ☐
13. Water - VOA vials have zero headspace?	Yes ☐	No ☐	NA ☑
14. Water - pH acceptable upon receipt? Example: pH > 12 for (CN,S); pH<2 for Metals	Yes ☐	No ☐	NA ☑
15. Did the bottle labels indicate correct preservatives used?	Yes ☐	No ☐	NA ☑
16. Were there Non-Conformance issues at login?	Yes ☑	No ☐	NA ☐
Was Client notified?	Yes ☐	No ☐	NA ☑

Comments: Received at Las Vegas Lab on 4/19/2023 at 4.8°C, IR#3, via GLS#6285.

Checklist Completed By: MR 4/20/2023

Reviewed By:



ASSET Laboratories

WORK ORDER Summary

19-Apr-23

WorkOrder: N056034

Client ID: AETL01

Project: BED0016.01 **QC Level:** RTNE **Date Received:** 4/18/2023 12:17 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N056034-001A	BED0016-05	4/5/2023 7:37:00 AM	4/25/2023	Soil	EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			4/25/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N056034-002A	BED0016-08	4/5/2023 7:58:00 AM	4/25/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			4/25/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N056034-003A	BED0016-11	4/5/2023 8:56:00 AM	4/25/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			4/25/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N056034-004A	BED0016-21	4/5/2023 8:34:00 AM	4/25/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			4/25/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N056034-005A	BED0016-24	4/5/2023 9:52:00 AM	4/25/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			4/25/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N056034-006A	BED0016-28	4/5/2023 10:09:00 AM	4/25/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			4/25/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N056034-007A	BED0016-41	4/5/2023 2:39:00 PM	4/25/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			4/25/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N056034-008A	BED0016-44	4/5/2023 2:16:00 PM	4/25/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			4/25/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N056034-009A	BED0016-55	4/5/2023 1:24:00 PM	4/25/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			4/25/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N056034-010A	FOLDER	4/25/2023	4/25/2023		Folder	Folder	☐	☐	☐	LAB
			4/25/2023		Folder	Folder	☐	☐	☐	LAB

GLS.

800-322-5555
www.gls-us.com

Ship From
ASSET LABORATORIES
THAD MALIT
11110 ARTESIA BLVD. SUITE B
CERRITOS, CA 90703

Ship To
ASSET LABORATORIES
SAMPLE CONTROL-LV
3151 W. POST RD.,
LAS VEGAS, NV 89118

COD: $0.00
Weight: 0 lb(s)
Reference:

Delivery Instructions:
HOLD FOR PICKUP
Signature Type: STANDARD

Tracking #: 559226285

PDS

9:37 AM

LAS VEGAS

C89102A

84548915

LVS NV891-A 8

Print Date: 4/18/2023 5:23 PM

LABEL INSTRUCTIONS:

Do not copy or reprint this label for additional shipments - each package must have a unique barcode.
Step 1: Use the "Print Label" button on this page to print the shipping label on a laser or inkjet printer.
Step 2: Fold this page in half.
Step 3: Securely attach this label to your package and do not cover the barcode.

TERMS AND CONDITIONS:

By giving us your shipment to deliver, you agree to all of the General Logistics Systems US, Inc. (GLS) service terms & conditions including, but not limited to; limits of liability, declared value conditions, and claim procedures which are available on our website at www.gls-us.com.

4.8°C
ice # F

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May 11, 2023

AETL Job No: BED0016.03
Received Date: 04/05/2023
Project Number: [none]

Parsons
100 West Walnut Street
Pasadena, CA 91124
Telephone: (626) 440-6200

Attention: Justin King

Project Name: Canoga Park High School
Site: 6850 CA-27
Canoga Park, CA 91303

Enclosed please find the results of analyses for samples which were analyzed as specified on the attached chain of custody. If you have any questions concerning this report, please do not hesitate to call.

Checked By: Hailley Coleman
Hailley Coleman
Project Manager

Approved By: Joe Sevrean
Joe Sevrean
Laboratory Director

Table of Contents

Client Project Name: General Soil Testing Project Number: [none]
Work Order Number: BED0016

1	Cover Letter	1
2	Sample Condition on Receipt	3
3	Chain of Custody	4
4	Cooler Receipt Forms	8
5	Case Narrative	9
6	Samples Received	10
7	Positive Hits Summary	12
8	Analytical Results	13
9	Quality Control Results	15
10	Qualifiers and Definitions	19
11	Sub Contracted Analysis	21

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	05/11/2023 16:23

Sample Condition on Receipt

Cooler ID: Default Cooler **Temperature: 5.5 °C**

Are the COCs Correct	Y		
Labels Legible	Y	Containers In Good Condition	Y
COC/Labels Agree	Y	Samples Preserved Properly	Y
Sufficient Sample Volume	Y	Sufficient Holding Time for all Tests	Y
Sample Labels intact	Y	Received on Ice	Y

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

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CHAIN OF CUSTODY RECORD

108494

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut Street Pasadena, CA 91124
PHONE: (310) 809-5793
FAX:
PROJECT NAME: Canoga Park High School
PROJECT #:
SITE NAME AND ADDRESS: 6850 CA-27, Canoga Park, CA 91303
PO #:
AETL JOB No. BED0016
Page 1 of 4

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1	SB-33-D0.5	BED0016 01	4/5/2023	0656	Soil	1x4oz+2x2oz	NONE
2	SB-33-D2.0	02		0659		1x4oz	
3	SB-33-D3.0	03		0705			
4	SB-34-D0.5	04		0733			
5	SB-34-D2.0	05		0737			
6	SB-34-D3.0	06		0743			
7	SB-35-D0.5	07		0753			
8	SB-35-D2.0	08		0758			
9	SB-35-D3.0	09		0811			
10	SB-39-D0.5	10		0852		1x4oz+2x2oz	
11	SB-39-D2.0	11		0856		1x4oz	
12	SB-39-D3.0	12		0900		1x4oz	
13	SB-6-D0.5	13		0925		1x4oz+2x2oz	
14	SB-6-D2.0	14		0929		1x4oz	
15	SB-6-D3.0	15		0933		1x4oz	

ANALYSIS REQUESTED

	Lead (6010B)	Arsenic (6020)	OCPs (8081A)	PCBs (8082A) EDD	Asbestos (PLM)	PAHs (8270C)	Cr (VI) (7199)	Cd+Ni (6010B)	Mercury (7470A)	PCBs (8082)
1	X	X	X		X	X	X	X	X	X
2										
3										
4	X	X	X							X
5		X								
6		X								
7	X	X	X							X
8	X	X								
9		X								
10	X	X	X		X	X	X	X	X	X
11	X	X								
12										
13	X	X	X		X	X	X	X	X	X
14										
15										

EDD

TEST INSTRUCTIONS & COMMENTS

STLC-As
TCLP-As
STLC-Pb
TCLP-Pb

1 X
2 X X
3 Hold
4 X X
5 X Hold
6 Hold
7 X X
8 Hold
9 Hold
10 X X
11 Hold
12 Hold
13
14 Hold
15 Hold

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y / N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: E. Dabss	Signature:	Signature:
Printed Name: Edward Dabss	Printed Name:	Printed Name:
Date: 4/5/2023 Time: 1630	Date: Time:	Date: Time:
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: 3.**
Signature:	Signature:	Signature:
Printed Name:	Printed Name:	Printed Name: LILY N.
Date: Time:	Date: Time:	Date: 04-05-23 Time: 16:30

TURN AROUND TIME

☑ NORMAL ☐ RUSH
☐ SAME DAY
☐ NEXT DAY
☐ 2 DAYS
☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY
☑ PDF
☐ GEOTRACKER (GLOBAL ID) _____
☐ OTHER (PLEASE SPECIFY) _____

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CHAIN OF CUSTODY RECORD

108479

AETL JOB No. BED0016

COMPANY: Parsons
PROJECT MANAGER: Justin Long
COMPANY ADDRESS: 100 W. Walnut Street Pasadena, CA 91124
PHONE: (310) 809-5793
FAX:
PROJECT NAME: Canoga Park High School
PROJECT #:
SITE NAME AND ADDRESS: 6850 CA-27, Canoga Park, CA 91303
PO #:

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	OCPs (8081A)	STLC - As	TLCP - As	STLC - Pb	TCLP - Pb	TEST INSTRUCTIONS & COMMENTS
1	SB-40-D0.5	BE-D0016 16	4/5/23	0717	Soil	1x 9oz	NONE	X	X	X					
2	SB-40-D2.0	17		0720											Hold
3	SB-40-D3.0	18		0723											Hold
4	SB-38-D0.5	19		0827				X	X	X	X				
5	SB-38-D0.5-DUP	20		0832				X	X	X	X	X			Duplicate
6	SB-38-D2.0	21		0834					X						Hold
7	SB-38-D3.0	22		0837					X						Hold
8	SB-55-D0.5	23		0948				X	X	X					
9	SB-55-D2.0	24		0952					X						Hold
10	SB-55-D3.0	25		0955											Hold
11	SB-7-D0.5	26		1002				X	X	X					
12	SB-7-D0.5-DUP	27		1007				X	X	X					Duplicate
13	SB-7-D2.0	28		1009					X						Hold
14	SB-7-D3.0	29		1012											Hold
15	SB-13-D0.5	30		1041				X	X	X					

ANALYSIS REQUESTED

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS
CUSTODY SEALS Y / N / NA
RECEIVED IN GOOD COND. Y / N
PROPERLY COOLED Y / N / NA
SAMPLES INTACT Y / N / NA
SAMPLES ACCEPTED Y / N

RELINQUISHED BY SAMPLER: 1.
Signature: E. Dibsy
Printed Name: Edward Dibsy
Date: 4/5/2023 Time: 1630

RELINQUISHED BY: 2.
Signature:
Printed Name:
Date: Time:

RELINQUISHED BY: 3.
Signature:
Printed Name:
Date: Time:

TURN AROUND TIME
☑ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED
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☐ OTHER (PLEASE SPECIFY) _____

RECEIVED BY: 1.
Signature:
Printed Name:
Date: Time:

RECEIVED BY: 2.
Signature:
Printed Name:
Date: Time:

RECEIVED BY LABORATORY: 3.
Signature: Natanya
Printed Name: LILY N.
Date: 04-05-2023 Time: 16:30

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CHAIN OF CUSTODY RECORD

108484

AETL JOB No. BED0016

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut Street, Pasadena, CA 91124
PHONE / FAX: (310) 809-5793
PROJECT NAME: Canoga Park High School
PROJECT #:
SITE NAME AND ADDRESS: 6850 CA-27, Canoga Park, CA 91303
PO #:

ANALYSIS REQUESTED

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	OCPs (8081A)	PCBs (8082)	Asbestos (PCM)	PAHs (8270C)	Cr(VI) (7199)	Cd+Ni (6010B)	Mercury (7470A)	STLL-As	TEST INSTRUCTIONS & COMMENTS
1	SB-11-D0.5	BED0016 31	4/5/2023	1100	Soil	1x9oz+2x2oz	NONE	X	X	X	X	X	X	X	X	X		
2	SB-11-D2.0	32		1106		1x9oz												Hold
3	SB-11-D3.0	33		1109		1x9oz												Hold
4	SB-42-D0.5	34		1300		1x9oz+2x2oz		X	X	X	X	X	X	X	X	X		
5	SB-42-D2.0	35		1305		1x9oz												Hold
6	SB-42-D3.0	36		1310		1x9oz												Hold
7	SB-45-D0.5	37		1354		1x9oz+2x2oz		X	X	X	X	X	X	X	X	X		
8	SB-45-D2.0	38		1358		1x9oz												Hold
9	SB-45-D3.0	39		1402		1x9oz												Hold
10	SB-47-D0.5	40		1437		1x9oz+2x2oz		X	X	X	X	X	X	X	X	X		
11	SB-47-D2.0	41		1439		1x9oz			X									Hold
12	SB-47-D3.0	42		1443		1x9oz			X									Hold
13	SB-44-D0.5	43		1412		1x9oz		X	X	X							X	
14	SB-44-D2.0	44		1416		1x9oz		~~X~~	~~X~~	~~X~~	ED.						X	Hold
15	SB-44-D3.0	45		1420		1x9oz		~~X~~	~~X~~	~~X~~	ED.							Hold

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y / N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: [signature]	Signature:	Signature:
Printed Name: Edward Dobrys	Printed Name:	Printed Name:
Date: 4/5/2023 Time: 1630	Date: Time:	Date: Time:

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: 3.
Signature:	Signature:	Signature: [signature]
Printed Name:	Printed Name:	Printed Name: LILY N.
Date: Time:	Date: Time:	Date: 04-05-2023 Time: 16:30

TURN AROUND TIME

☑ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY
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CHAIN OF CUSTODY RECORD

108481

AETL JOB No. BE-D0016

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut Street Pasadena, CA 91124
PHONE / FAX: (310) 809-5793
PROJECT NAME: Canoga Park Highschool
PROJECT #:
SITE NAME AND ADDRESS: 6850 CA-27, Canoga Park, CA 91303
PO #:

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	OCPs (8081A)	TEST INSTRUCTIONS & COMMENTS
1	SB-13-D2.0	BE-D0016-41	04/5/2023	1044	Soil	1x9oz.	NONE				Hold
2	SB-13-D3.0	42		1047							Hold
3	SB-14-D0.5	43		1133				X	X	X	
4	SB-14-D2.0	44		1137							Hold
5	SB-14-D3.0	45		1141							Hold
6	SB-41-D0.5	51		1237				X	X	X	
7	SB-41-D2.0	52		1243							Hold
8	SB-41-D3.0	53		1248							Hold
9	SB-43-D0.5	54		1321				X	X	X	
10	SB-43-D2.0	55		1324					X		Hold
11	SB-43-D3.0	56		1327							Hold
12	SB-46-D0.5	57		1337				X	X	X	
13	SB-46-D2.0	58		1340							Hold
14	SB-46-D3.0	59		1344							Hold
15											

ANALYSIS REQUESTED

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y/ N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

TURN AROUND TIME

☑ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY ☑ PDF ☐ GEOTRACKER (GLOBAL ID) _____ ☐ OTHER (PLEASE SPECIFY) _____

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: E. Davis	Signature:	Signature:
Printed Name: Edward Davis	Printed Name:	Printed Name:
Date: 4/5/2023 Time: 1630	Date: Time:	Date: Time:
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: 3.**
Signature:	Signature:	Signature:
Printed Name:	Printed Name:	Printed Name: LILY N.
Date: Time:	Date: Time:	Date: 04-05-2023 Time: 16:30

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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COOLER RECEIPT FORM

Client Name: Parsons

Project Name: Canoga Park High School Project No.:

AETL Job Number: BED0016

Date Received: 04-05-23 Received by: Lily N.

Carrier: ☑ AETL Courier ☐ Client ☐ GSL ☐ FedEx ☐ UPS
☐Others:

Samples were received in: ☑ Cooler (__2_____) ☐ Other (Specify):

Sample Container Temperature: __5.5__ °C IR Gun S/N: 51941911MV

Type of sample containers: ☐ VOA, ☐ Glass bottles, ☑Wide mouth jars, ☐HDPE bottles, ☐ Metal sleeves, ☐ Acetate sleeves, ☐ 5035 Kit: ☐ AETL or ☐ Client, ☐ Tedlar Bags, Summa Canister: ☐ 6L, ☐ 3L, ☐ 1L, Others (Specify): _____

How are samples preserved: ☐ None, ☑ Ice, ☐ Blue Ice, ☐ Dry Ice
☑ None, ☐ HNO_3, ☐ NaOH, ☐ ZnOAc, ☐ HCl, ☐ $Na_2S_2O_3$, ☐ MeOH, ☐ $NaHSO_4$
☐ Other (Specify):

	Yes	No	N/A	Note or Comment
1. Are the COCs Correct?	✔			
2. Are Sample labels legible & indelible ink?	✔			
3. Do samples match the COC?	✔			
4. Are the required analyses clear?	✔			
5. Is there enough samples for required analysis?	✔			
6. Does cooler or samples have custody seal(s)?			✔	
7. Are sample containers in good condition?	✔			
8. Are samples preserved?	✔			
9. Are samples preserved properly for the intended analysis?	✔			
10. Are the VOAs free of headspace? See footnote.			✔	
11. Are the jars free of headspace?			✔	

* = see note below. N/A = Not Applicable

PLEASE NOTE ALL SAMPLES WILL BE DISPOSED OF 30 DAYS AFTER RECEIVING DATE. IF AETL IS INFORMED OTHERWISE, THERE WILL BE A STORAGE CHARGE PER SAMPLE PER MONTH FOR ANY SAMPLE HELD BEYOND 30 DAYS.

◯ Example maximum headspace bubble size; acceptance criteria not to exceed 5-6 mm in diameter.

For headspace bubbles exceeding 6 mm in diameter, sample receiving will tag the VOA and notify the Project Manager. The Project Manager will contact client for Analyze or Resample instructions.

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	05/11/2023 16:23

Case Narrative

The following "Sample Received" Section summarizes the samples received and associated analyses requested as specified on the enclosed chain of custody.

Results as reported by the laboratory apply only to 1) the items tested, 2) as the samples are received, and 3) the accuracy of information provided. Information supplied by the customer that may affect validity of results and may be contained in this report include Project Name/Number, Site Location, Sample Locations, Sampling Dates/Times, Sample ID, Sample Preservation, Sample Matrix, Sample Properties, Field Blanks, Field Duplicates, Field Spikes, and Site Historical Data.

Accreditation applies only to the test methods listed on each scope of accreditation held by the laboratory; certifications held by the laboratory may not apply to results supplied in this report.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

Qualifiers are noted in the report.

The samples were subcontracted to AIH Laboratory for EPA-600R-93/116. Please see attached report for results.

The samples were subcontracted to Orange Coast Analytical, Inc. for EPA 6020-As. Please see attached report for results.

The samples were subcontracted to Asset Laboratories for EPA 7199. Please see attached report for results.

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	05/11/2023 16:23	

Samples Received

AETL received the following samples on 04/05/2023 with the following specifications

Client ID SB-34-D2.0 — **Sample Date** 04/5/2023 7:37

Lab ID BED0016-05 — **Matrix** Soil — **Quantity of Containers** 1

Method	Analyte	Units	TAT
EPA 6010B-1311 TCLP	TCLP Arsenic by ICP	mg/L	5
EPA 6010B-STLC	STLC Arsenic by ICP	mg/L	5

Client ID SB-34-D3.0 — **Sample Date** 04/5/2023 7:43

Lab ID BED0016-06 — **Matrix** Soil — **Quantity of Containers** 2

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Client ID SB-35-D3.0 — **Sample Date** 04/5/2023 8:11

Lab ID BED0016-09 — **Matrix** Soil — **Quantity of Containers** 2

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Client ID SB-38-D3.0 — **Sample Date** 04/5/2023 8:37

Lab ID BED0016-22 — **Matrix** Soil — **Quantity of Containers** 2

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

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AMERICAN ENVIRONMENTAL TESTING LABORATORY, LLC
2840 North Naomi Street, Burbank, CA 91504 • ELAP# 1541 • LACSD# 10181
Telephone (888) 288-AETL • (818) 845-8200 • www.aetlab.com
A KYZER LABS COMPANY

Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	05/11/2023 16:23	

Samples Received

(Continued)

AETL received the following samples on 04/05/2023 with the following specifications

Client ID	Lab ID	Matrix	Sample Date	Quantity of Containers
SB-47-D3.0	BED0016-42	Soil	04/5/2023 14:43	2

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Client ID	Lab ID	Matrix	Sample Date	Quantity of Containers
SB-44-D2.0	BED0016-44	Soil	04/5/2023 14:16	1

Method	Analyte	Units	TAT
EPA 6010B-STLC	STLC Arsenic by ICP	mg/L	5

Client ID	Lab ID	Matrix	Sample Date	Quantity of Containers
SB-44-D3.0	BED0016-45	Soil	04/5/2023 14:20	2

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Total Number of Samples received: 7

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	05/11/2023 16:23

Positive Hits Summary

Lab ID	Client ID				Sampled
BED0016-05	SB-34-D2.0				04/05/2023 07:37
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B-STLC	Arsenic	5.71		mg/L	05/09/2023 19:48
EPA 6010B-1311 TCLP	Arsenic	2.86		mg/L	05/11/2023 13:29

Lab ID	Client ID				Sampled
BED0016-44	SB-44-D2.0				04/05/2023 14:16
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B-STLC	Arsenic	1.61		mg/L	05/09/2023 20:02

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	05/11/2023 16:23	

Analytical Results

Client ID: SB-34-D2.0
Lab ID: BED0016-05 (Soil) **Sampled:** 04/05/23 7:37

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
STLC Analysis											
Method: EPA 6010B-STLC											
Arsenic	**5.71**		1	0.0100	0.0500	mg/L	05/04/23 13:43	05/09/23 19:48	B3E0082	LE	3050B
TCLP Analysis											
Method: EPA 6010B-1311 TCLP											
Arsenic	**2.86**		1	0.500	1.00	mg/L	05/04/23 11:17	05/11/23 13:29	B3E0079	LE	3050B

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	05/11/2023 16:23	

Analytical Results

Client ID: SB-44-D2.0
Lab ID: BED0016-44 (Soil) **Sampled:** 04/05/23 14:16

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
STLC Analysis											
Method: EPA 6010B-STLC											
Arsenic	**1.61**		1	0.0100	0.0500	mg/L	05/04/23 13:43	05/09/23 20:02	B3E0082	LE	3050B

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	05/11/2023 16:23

Quality Control Results

STLC Analysis (EPA 6010B-STLC)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3E0082 - 3050B					**Prepared: 05/04/2023 13:43**						
Method Blank (B3E0082-BLK1)					**Analyzed: 05/10/2023 18:07**						
Arsenic	0.0326	0.0100	0.0500	mg/L							B1, J

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	05/11/2023 16:23	

Quality Control Results

STLC Analysis (EPA 6010B-STLC)

Analyte	Result		RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3E0082 - 3050B (Continued)					**Prepared: 05/04/2023 13:43**						
LCS (B3E0082-BS1)					**Analyzed: 05/09/2023 19:42**						
Arsenic	22.3		0.0500	mg/L	20.0		111	75-125			
LCSD (B3E0082-BSD1)					**Analyzed: 05/09/2023 19:45**						
Arsenic	21.8		0.0500	mg/L	20.0		109	75-125	2.03	15	
Duplicate (B3E0082-DUP1)		**Source: BED0016-05**			**Analyzed: 05/09/2023 19:59**						
Arsenic	5.21	0.0100	0.0500	mg/L		5.71			9.03	15	

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	05/11/2023 16:23

Quality Control Results

TCLP Analysis (EPA 6010B-1311 TCLP)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3E0079 - 3050B					**Prepared: 05/04/2023 11:17**						
Method Blank (B3E0079-BLK1)					**Analyzed: 05/11/2023 13:14**						
Arsenic	ND	0.500	1.00	mg/L							

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	05/11/2023 16:23

Quality Control Results

TCLP Analysis (EPA 6010B-1311 TCLP)

Analyte	Result		RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3E0079 - 3050B (Continued)					**Prepared: 05/04/2023 11:17**						
LCS (B3E0079-BS1)					**Analyzed: 05/11/2023 13:17**						
Arsenic	21.1		1.00	mg/L	20.0		106	75-125			
LCSD (B3E0079-BSD1)					**Analyzed: 05/11/2023 13:20**						
Arsenic	21.0		1.00	mg/L	20.0		105	75-125	0.801	20	
Duplicate (B3E0079-DUP1)		**Source: BED0145-05**			**Analyzed: 05/11/2023 13:26**						
Arsenic	ND	0.500	1.00	mg/L		ND			NA	20	

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	05/11/2023 16:23

Qualifiers and Definitions

Item	Qualifiers
B1	This analyte was found in the method blank, which was possibly contaminated during sample preparation. The batch was accepted since this analyte was either not detected or more than 10 times of the blank value for all the samples in the batch.
J	Analyte was detected. However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Reporting Limit (RL).

Item	Definitions
% wt	Percent Weight
%REC	Percent Recovery
°F	Degrees Fahrenheit
AETL	American Environmental Testing Laboratory, LLC
C	Carbon
CARB	California Air Resources Board
COC	Chain of Custody
Cresols	3-methylphenol/4-methylphenol coelute and cannot be chromatographically separated. Due to this coeluting isomer pair phenomenon, the laboratory uses a single cresol (4-methylphenol) as calibration standard for 3-methylphenol/4-methylphenol.
CRM	Certified Reference Material
DPD	Department of Planning and Development
DRO	Diesel Range Organics
Dup	Duplicate
ELAP	Environmental Laboratory Accreditation Program
EPA	Environmental Protection Agency
GC/FID	Gas Chromatography Flame Ionization Detection
GRO	Gasoline Range Organics
HC	Hydrocarbon
HEM	Hexane Extractable Material
HMU	Hazardous Material Unit
ICP/MS	Inductively Coupled Plasma Mass Spectrometry
LACSD	Los Angeles County Sanitation Districts
LCS	Laboratory Control Sample - A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes.
LCSD	Laboratory Control Sample Duplicate - A replicate of Laboratory Control Sample.
LOQ	Limit of Quantitation
MDL	Method Detection Limit - The minimum measured concentration of a substance that can be reported with 99% confidence. MDL is statistically derived number which is specific for each instrument, each method and each compound.
mg/kg	Miligrams per Kilogram
mg/L	Miligrams per Liter
ml/L/hr	Milliliter per Liter per Hour
MRO	Motor oil Range Organics

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Parsons	AETL Job Number:	BED0016	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	05/11/2023 16:23

MS	Matrix Spike - A sample prepared, taken through all sample preparation and analytical steps of the procedure and analyzed as an independent test results.
MSD	Matrix Spike Duplicate - A replicate of Matrix Spike Sample.
N	No
ND	Analyte is not detected below Method Detection Limit.
ng/m3	Nanograms per cubic meter
NIOSH	National Institute for Occupational Safety and Health
nL/L	Nanoliters per Liter
NTU	Nephelometric Turbidity Units
Ohm-cm	Ohms per centimeter
ORO	Oil Range Organics
OSHA	Occupational Safety and Health Administration
PCB	Polychlorinated Biphenyl
ppb v	Parts per billion by volume
ppmC	Parts per million Carbon
PSU	Practical Salinity Unit
RL	Reporting Limit - The lowest concentration at which an analyte can be detected in a sample and its concentration can be reported with a specified degree of confidence, accuracy and precision. For usage at AETL, RL is equivalant to LOQ.
RPD	Relative Percent Difference
SIM	Selective Ion Monitoring
SM	Standard Method
SPLP	Synthetic Precipitation Leaching Procedure
STLC	Soluble Threshold Limit Concentration
TCLP	Toxicity Characteristic Leaching Procedure
TPH	Total Petroleum Hydrocarbons
TTLC	Total Threshold Limit Concentrations
ug/kg	Micrograms per Kilogram
ug/L	Micrograms per Liter
ug/m3	Micrograms per cubic meter
WET	Waste Extraction Test
Y	Yes
ZHE	Zero Headspace Extraction

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LABORATORY REPORT FORM

ORANGE COAST ANALYTICAL, INC.

3002 Dow Suite 532 Tustin, CA 92780

(714) 832-0064

Laboratory Certification (ELAP) No.:2576
Expiration Date: 2025
Los Angeles County Sanitation District Lab ID# 10206

Laboratory Director's Name:
Mark Noorani

Client:	American Environmental Testing Laboratory
Laboratory Reference:	AETL 27872
Project Name:	
Project Number:	BED0016.04
Date Received:	5/1/2023
Date Reported:	5/9/2023
Chain of Custody Received:	☑
Analytical Method:	6020,

Mark Noorani, Laboratory Director

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Rev1.0

Ms. Hailley Coleman
American Environmental Testing Laboratory
2840 Naomi St
Burbank, CA, 91504

Lab Reference #: AETL 27872
Project Name:
Project #: BED0016.04

Case Narrative

Sample Receipt:

All samples on the Chain of Custody were received by OCA at 2ºC, on ice.

Holding Times:

All samples were analyzed within required holding times unless otherwise noted in the data qualifier section of the report.

Analytical Methods:

Sample analysis was performed following the analytical methods listed on the cover page.

Data Qualifiers:

Within this report, data qualifiers may have been assigned to clarify deviations in common laboratory procedures or any divergence from laboratory QA/QC criteria. If a data qualifier has been used, it will appear in the back of the report along with its description. All method QA/QC criteria have been met unless otherwise noted in the data qualifier section.

Definition of Terms:

The definitions of common terms and acronyms used in the report have been placed at the back of the report to assist data users.

Comments:

None

Ms. Hailley Coleman
American Environmental Testing Laboratory
2840 Naomi St
Burbank, CA, 91504

Lab Reference #: AETL 27872
Project Name:
Project #: BED0016.04

Client Sample Summary

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0016-6	27872-001	5/1/2023	4/5/2023	Soil
BED0016-9	27872-002	5/1/2023	4/5/2023	Soil
BED0016-22	27872-003	5/1/2023	4/5/2023	Soil
BED0016-42	27872-004	5/1/2023	4/5/2023	Soil
BED0016-45	27872-005	5/1/2023	4/5/2023	Soil

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Ms. Hailley Coleman
American Environmental Testing Laboratory
2840 Naomi St
Burbank, CA, 91504

Lab Reference #: AETL 27872
Project Name:
Project #: BED0016.04

Metals

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0016-6	27872-001	5/1/2023 13:25	4/5/2023 7:43	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	10	mg/kg	05/01/23 15:35	05/03/23 11:40	--	1

BED0016-9	27872-002	5/1/2023 13:25	4/5/2023 8:11	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	5.6	mg/kg	05/01/23 15:35	05/03/23 11:43	--	1

BED0016-22	27872-003	5/1/2023 13:25	4/5/2023 8:37	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	5.3	mg/kg	05/01/23 15:35	05/03/23 11:46	--	1

BED0016-42	27872-004	5/1/2023 13:25	4/5/2023 14:43	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	7.9	mg/kg	05/01/23 15:35	05/03/23 11:49	--	1

BED0016-45	27872-005	5/1/2023 13:25	4/5/2023 14:20	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	47	mg/kg	05/01/23 15:35	05/03/23 11:52	--	1

Method Blank							
						Soil	
MB ID	ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
MBHV0501231	Arsenic	6020	<1.0	mg/kg	05/01/23 15:35	05/03/23 10:57	--	1

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QA/QC Report
for
Metals

Reference #: AETL 27872 Reporting units: ppm

Matrix Spike (MS) / Matrix Spike Duplicate (MSD) **6020**

Laboratory Sample #: AZ13973-003 **Date of Extraction:** 05/01/23 15:35

Analyte	MS Date of Analysis	MSD Date of Analysis	R1	SPC CONC	MS	MSD	% MS	% MSD	RPD	ACP %MS	ACP RPD	Qualifiers
Arsenic	05/03/23 11:09	05/03/23 11:12	5.80	20.0	25.2	26.7	97	105	6	75-125	20	--

Laboratory Control Spike (LCS) / Laboratory Control Spike Duplicate (LCSD) **6020**

Laboratory Sample #: HV0501231 **Date of Extraction:** 05/01/23 15:35

Analyte	LCS Date of Analysis	LCSD Date of Analysis		SPC CONC	LCS	LCSD	% LCS	% LCSD	RPD	ACP %LCS	ACP RPD	Qualifiers
Arsenic	05/03/23 11:00	05/03/23 11:03	--	20.0	20.6	20.1	103	101	2	80-120	20	--

Definition of terms:

R	Result of unspiked laboratory sample used for matrix spike determination.
SP CONC (or Spike Conc.)	Spike concentration added to sample or blank
MS	Matrix Spike sample result
MSD	Matrix Spike Duplicate sample result
%MS	Percent recovery of MS: {(MS-R1) / SP CONC} x100
%MSD	Percent recovery of MSD: {(MSD-R1) / SP CONC} x 100
RPD (for MS/MSD)	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2
LCS	Laboratory Control Sample result
LCSD	Laboratory Control Sample Duplicate result
%LCS	Percent recovery of LCS: {(LCS) / SP CONC} x100
%LCSD	Percent recovery of LCSD: {(LCSD) / SP CONC} x 100
RPD (for LCS/LCSD)	Relative Percent Difference: {(LCS-LCSD) / (LCS+LCSD)} x 100 x 2
ACP %LCS	Acceptable percent recovery range for Laboratory Control Samples.
ACP %MS	Acceptable percent recovery range for Matrix Spike samples
ACP RPD	Acceptable Relative Percent Difference
D	Detectable, result must be greater than zero
Qual	A checked box indicates a data qualifier was utilized and/or required for this analyte see attached explanation.
ND	Analyte Not Detected

Analysis Request and Chain of Custody Record

ORANGE COAST ANALYTICAL, INC. www.ocalab.com

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Phoenix, AZ 85040
(480) 736-0960 Fax (480) 736-0970

Lab Job No: 27872
Page 1 of 1

REQUIRED TURN AROUND TIME: Standard: ✔
72 Hours: ____ 48 Hours: ____ 24 Hours: ____

CUSTOMER INFORMATION		PROJECT INFORMATION	
COMPANY:	American Environmental Testing L	PROJECT NAME:	
SEND REPORT TO:	Hailley Coleman	NUMBER:	BED0016.04
EMAIL:	hcoleman@aetlab.com	ADDRESS:	
ADDRESS:	2840 N. Naomi st.		
	Burbank, CA 91504	P.O. #:	SUB-35338
PHONE:	(818) 845-8200 FAX:	SAMPLED BY:	

ANALYSIS REQUEST / PRESERVATIVE: 6020-AS

	SAMPLE ID	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER TYPE	6020-AS										REMARKS/PRECAUTIONS
1	BED0016-6	1	04/05/23	7:43	SS		✔										
2	BED0016-9	1	04/05/23	8:11	SS		✔										
3	BED0016-22	1	04/05/23	8:37	SS		✔										
4	BED0016-42	1	04/05/23	14:43	SS		✔										
5	BED0016-45	1	04/05/23	14:20	SS		✔										

Total No. of Samples: Method of Shipment: Preservative: 1 = Ice 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By: [signature]	Date/Time: 5-1-23 1325	Received For Lab By: [signature] OCA, LA	Date/Time: 5-1-23 1325

Sample Matrix:
GW - Groundwater
WW - Wastewater
SW - Stormwater
DW - Drinking Water
W - Water
SS - Soil/Solid
OT - Other

Sample Integrity: 2.0+022.1C
Intact: ____ On Ice: Yes / No

By signing above, client acknowledges responsibility for payment of all services requested on this chain of custody form and any additional services provided in support of this project. Payment is due within

Sample Receipt Report

Laboratory Reference: AETL 27872 Logged in by: HC

Received:	05/01/23 13:25	Company Name:	American Environmental Testing Labo
Method of Shipment:	Hand Delivered	Project Manager:	Ms. Hailley Coleman
Shipping Container:	Cooler	Project Name:	
# Shipping Containers:	1	Project #:	BED0016.04

Sample Quantity
5 Soil

Chain of Custody		Complete ☑	Incomplete ☐	None ☐
Samples On Ice		Yes, Wet ☑	Yes, Blue ☐	No ☐
Observed Temp. (°C):	2	Thermometer ID: IR#3	Adjusted Temp.:	2+(-0)=2
Shipping Intact		Yes ☑	N/A ☐	No ☐
Shipping Custody Seals Intact		Yes ☐	N/A ☑	No ☐
Samples Intact		Yes ☑		No ☐
Sample Custody Seals Intact		Yes ☐	N/A ☑	No ☐
Custody Seals Signed & Dated		Yes ☐	N/A ☑	No ☐
Proper Test Containers		Yes ☑		No ☐
Proper Test Preservations		Yes ☑		No ☐
Samples Within Hold Times		Yes ☑		No ☐
VOAs Have Zero Headspace		Yes ☐	N/A ☑	No ☐
Sample Labels		Complete ☑	Incomplete ☐	None ☐
Sample Information Matches COC		Yes ☑	N/A ☐	No ☐

Notes

Client Notified _____ By _____ On _____

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April 14, 2023

AETL Job No: BED0024
Received Date: 04/06/2023
Project Number: [none]

Parsons
100 West Walnut Street
Pasadena, CA 91124
Telephone: (626) 440-6200

Attention: Justin King

Project Name: Canoga Park High School
Site: 6850 CA-27
Canoga Park, CA 91303

Enclosed please find the results of analyses for samples which were analyzed as specified on the attached chain of custody. If you have any questions concerning this report, please do not hesitate to call.

Checked By: Lily Natanian
Project Manager

Approved By: Hailley Coleman
Project Manager

Table of Contents

Client Project Name: General Soil Testing Project Number: [none]
Work Order Number: BED0024

1 Cover Letter 1
2 Sample Condition on Receipt 3
3 Chain of Custody 4
4 Cooler Receipt Forms 6
5 Case Narrative 7
6 Samples Received 8
7 Positive Hits Summary 12
8 Analytical Results 15
9 Quality Control Results 33
10 Qualifiers and Definitions 45
11 Sub Contracted Analysis 47

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Parsons	AETL Job Number:	BED0024	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/14/2023 11:07

Sample Condition on Receipt

Cooler ID: Default Cooler **Temperature: 5.9 °C**

Are the COCs Correct	Y		
Labels Legible	Y	Containers In Good Condition	Y
COC/Labels Agree	Y	Samples Preserved Properly	Y
Sufficient Sample Volume	Y	Sufficient Holding Time for all Tests	Y
Sample Labels intact	Y	Received on Ice	Y

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CHAIN OF CUSTODY RECORD

108478

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut Street Pasadena, CA 91124
PHONE / FAX: (310) 809-5793
PROJECT NAME: Canoga Park Highschool
PROJECT #:
SITE NAME AND ADDRESS: 6850 CA-27, Canoga Park, CA 91303
PO #:

AETL JOB No. BE00024

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	OCPs (8081A)	TEST INSTRUCTIONS & COMMENTS
1	SB-48-D0.5	BE00024-01	4/6/2023	0709	Soil	1 x 90z	NONE	X	X	X	
2	SB-48-D2.0	-02		0714							Hold
3	SB-48-D3.0	-03		0718							Hold
4	SB-49-D0.5	-04		0726				X	X	X	
5	SB-49-D2.0	-05		0729							Hold
6	SB-49-D3.0	-06		0732							Hold
7	SB-17-D0.5	-07		0809				X	X	X	
8	SB-17-D2.0	-08		0812							Hold
9	SB-17-D3.0	-09		0815							Hold
10	SB-32-D0.5	-10		0907				X	X	X	
11	SB-32-D2.0	-11		0910							Hold
12	SB-32-D3.0	-12		0913							Hold
13	SB-28-D0.5	-13		0922				X	X	X	
14	SB-28-D2.0	-14		0925							Hold
15	SB-28-D3.0	-15		0929							Hold

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y/ N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

TURN AROUND TIME

- [x] NORMAL
- [ ] RUSH
- [ ] SAME DAY
- [ ] NEXT DAY
- [ ] 2 DAYS
- [ ] 3 DAYS

DATA DELIVERABLE REQUIRED

- [ ] HARD COPY
- [x] PDF
- [ ] GEOTRACKER (GLOBAL ID) _____
- [ ] OTHER (PLEASE SPECIFY) _____

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: E. Salazar	Signature:	Signature:
Printed Name: Edward Dabys	Printed Name:	Printed Name:
Date: 4/6/2023 Time: 1140	Date: Time:	Date: Time:
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: AETL 3.**
Signature:	Signature:	Signature:
Printed Name:	Printed Name:	Printed Name: Chantal Avila
Date: Time:	Date: Time:	Date: 4/6/23 Time: 11:40

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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CHAIN OF CUSTODY RECORD

108482

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut Street Pasadena, CA 91124
PHONE / FAX: (310) 809-5743
PROJECT NAME: Canoga Park High School
PROJECT #:
SITE NAME AND ADDRESS: 6850 CA-27, Canoga Park, CA 91303
PO #:

AETL JOB No. BE00024

ANALYSIS REQUESTED

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	OCPs (8081A)	PCBs (8082)	Asbestos (PCM)	PAHs (8270C)	Cr(VI) (7199)	Cd+Ni (6010B)	Mercury (7470A)		TEST INSTRUCTIONS & COMMENTS
1	SB-31-D0.5	BE00024-16	4/6/2023	0847	Soil	1x9oz + 2x2oz	NONE	X	X	X	X	X	X	X	X	X		
2	SB-31-D2.0	-17		0853		1x9oz												Hold
3	SB-31-D3.0	-18		0857		1x9oz												Hold
4	SB-20-D0.5	-19		0827		1x9oz + 2x2oz		X	X	X	X	X	X	X	X	X		~~Hold~~
5	SB-20-D2.0	-20		0830		1x9oz												Hold
6	SB-20-D3.0	-21		0834														Hold
7	SB-30-D0.5	-22		0939				X	X	X								
8	SB-30-D2.0	-23		0943														Hold
9																		
10																		
11																		
12																		
13																		
14																		
15																		

E. Talm

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y/ N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: E. Talm	Signature:	Signature:
Printed Name: Edward Dabsys	Printed Name:	Printed Name:
Date: 4/6/2023 Time: 1140	Date: Time:	Date: Time:

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: 3.
Signature:	Signature:	Signature: AETL
Printed Name:	Printed Name:	Printed Name: Chandra Avila
Date: Time:	Date: Time:	Date: 4/6/23 Time: 11:40

TURN AROUND TIME

☑ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☑ HARD COPY
☑ PDF
☐ GEOTRACKER (GLOBAL ID) _____
☐ OTHER (PLEASE SPECIFY) _____

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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COOLER RECEIPT FORM

Client Name: Parsons

Project Name: Canoga Park High School Project No.:

AETL Job Number: BED0024

Date Received: 04-06-23 Received by: Chantal A.

Carrier: ☑ AETL Courier ☐ Client ☐ GSL ☐ FedEx ☐ UPS
☐Others:

Samples were received in: ☑ Cooler (__2_____) ☐ Other (Specify):

Sample Container Temperature: __5.9__ °C IR Gun S/N: 51941911MV

Type of sample containers: ☐ VOA, ☐ Glass bottles, ☑Wide mouth jars, ☐HDPE bottles, ☐ Metal sleeves, ☐ Acetate sleeves, ☐ 5035 Kit: ☐ AETL or ☐ Client, ☐ Tedlar Bags, Summa Canister: ☐ 6L, ☐ 3L, ☐ 1L, Others (Specify): _____

How are samples preserved: ☐ None, ☑ Ice, ☐ Blue Ice, ☐ Dry Ice
☑ None, ☐ HNO_3, ☐ NaOH, ☐ ZnOAc, ☐ HCl, ☐ $Na_2S_2O_3$, ☐ MeOH, ☐ $NaHSO_4$
☐ Other (Specify):

	Yes	No	N/A	Note or Comment
1. Are the COCs Correct?	✔			
2. Are Sample labels legible & indelible ink?	✔			
3. Do samples match the COC?	✔			
4. Are the required analyses clear?	✔			
5. Is there enough samples for required analysis?	✔			
6. Does cooler or samples have custody seal(s)?			✔	
7. Are sample containers in good condition?	✔			
8. Are samples preserved?	✔			
9. Are samples preserved properly for the intended analysis?	✔			
10. Are the VOAs free of headspace? See footnote.			✔	
11. Are the jars free of headspace?			✔	

* = see note below. N/A = Not Applicable

PLEASE NOTE ALL SAMPLES WILL BE DISPOSED OF 30 DAYS AFTER RECEIVING DATE. IF AETL IS INFORMED OTHERWISE, THERE WILL BE A STORAGE CHARGE PER SAMPLE PER MONTH FOR ANY SAMPLE HELD BEYOND 30 DAYS.

◯ Example maximum headspace bubble size; acceptance criteria not to exceed 5-6 mm in diameter.

For headspace bubbles exceeding 6 mm in diameter, sample receiving will tag the VOA and notify the Project Manager. The Project Manager will contact client for Analyze or Resample instructions.

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Parsons	AETL Job Number:	BED0024	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/14/2023 11:07

Case Narrative

The following "Sample Received" Section summarizes the samples received and associated analyses requested as specified on the enclosed chain of custody.

Results as reported by the laboratory apply only to 1) the items tested, 2) as the samples are received, and 3) the accuracy of information provided. Information supplied by the customer that may affect validity of results and may be contained in this report include Project Name/Number, Site Location, Sample Locations, Sampling Dates/Times, Sample ID, Sample Preservation, Sample Matrix, Sample Properties, Field Blanks, Field Duplicates, Field Spikes, and Site Historical Data.

Accreditation applies only to the test methods listed on each scope of accreditation held by the laboratory; certifications held by the laboratory may not apply to results supplied in this report.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

Qualifiers are noted in the report.

The samples were subcontracted to AIH Laboratory for EPA-600R-93/116. Please see attached report for results.

The samples were subcontracted to Orange Coast Analytical for EPA 6020-As. Please see attached report for results.

The samples were subcontracted to Asset Laboratories for EPA 7199. Please see attached report for results.

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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Parsons	AETL Job Number:	BED0024	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 11:07	

Samples Received

AETL received the following samples on 04/06/2023 with the following specifications

Client ID SB-48-D0.5 — **Sample Date** 04/6/2023 7:09

Lab ID BED0024-01 — **Matrix** Soil — **Quantity of Containers** 2

Method	Analyte	Units	TAT
EPA 6010B	Lead, total by ICP	mg/kg	5
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5
EPA 8081A	Organochlorine Pesticides by GC/ECD	ug/kg	5

Client ID SB-49-D0.5 — **Sample Date** 04/6/2023 7:26

Lab ID BED0024-04 — **Matrix** Soil — **Quantity of Containers** 2

Method	Analyte	Units	TAT
EPA 6010B	Lead, total by ICP	mg/kg	5
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5
EPA 8081A	Organochlorine Pesticides by GC/ECD	ug/kg	5

Client ID SB-17-D0.5 — **Sample Date** 04/6/2023 8:09

Lab ID BED0024-07 — **Matrix** Soil — **Quantity of Containers** 2

Method	Analyte	Units	TAT
EPA 6010B	Lead, total by ICP	mg/kg	5
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5
EPA 8081A	Organochlorine Pesticides by GC/ECD	ug/kg	5

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Parsons	AETL Job Number:	BED0024	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 11:07	

Samples Received

(Continued)

AETL received the following samples on 04/06/2023 with the following specifications

Client ID: SB-32-D0.5 **Sample Date:** 04/6/2023 9:07

Lab ID: BED0024-10 **Matrix:** Soil **Quantity of Containers:** 2

Method	Analyte	Units	TAT
EPA 6010B	Lead, total by ICP	mg/kg	5
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5
EPA 8081A	Organochlorine Pesticides by GC/ECD	ug/kg	5

Client ID: SB-28-D0.5 **Sample Date:** 04/6/2023 9:22

Lab ID: BED0024-13 **Matrix:** Soil **Quantity of Containers:** 2

Method	Analyte	Units	TAT
EPA 6010B	Lead, total by ICP	mg/kg	5
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5
EPA 8081A	Organochlorine Pesticides by GC/ECD	ug/kg	5

Client ID: SB-31-D0.5 **Sample Date:** 04/6/2023 8:47

Lab ID: BED0024-16 **Matrix:** Soil **Quantity of Containers:** 4

Method	Analyte	Units	TAT
EPA 600R-93/116	Asbestos by Polarized Light Microscopy Analysis	Percent	5
EPA 6010B	Lead, total by ICP	mg/kg	5
EPA 6010B	Nickel, total by ICP	mg/kg	5
EPA 6010B	Cadmium, total by ICP	mg/kg	5
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5
EPA 7199	Chromium Hexavalent by Ion Chromatography	mg/kg	5
EPA 7471A	Mercury Cold-Vapor Technique	mg/kg	5

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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Parsons	AETL Job Number:	BED0024	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 11:07	

Samples Received
(Continued)

AETL received the following samples on 04/06/2023 with the following specifications

EPA 8081A	Organochlorine Pesticides by GC/ECD	ug/kg	5
EPA 8082	Polychlorinated Biphenyls (PCBs)	ug/kg	5
EPA 8270C-SIM	PAH Compounds by GC/MS SIM (Modified 8270C)	mg/kg	5

Client ID: SB-20-D0.5 **Sample Date:** 04/6/2023 8:27

Lab ID: BED0024-19 **Matrix:** Soil **Quantity of Containers:** 4

Method	Analyte	Units	TAT
EPA 600R-93/116	Asbestos by Polarized Light Microscopy Analysis	Percent	5
EPA 6010B	Cadmium, total by ICP	mg/kg	5
EPA 6010B	Nickel, total by ICP	mg/kg	5
EPA 6010B	Lead, total by ICP	mg/kg	5
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5
EPA 7199	Chromium Hexavalent by Ion Chromatography	mg/kg	5
EPA 7471A	Mercury Cold-Vapor Technique	mg/kg	5
EPA 8081A	Organochlorine Pesticides by GC/ECD	ug/kg	5
EPA 8082	Polychlorinated Biphenyls (PCBs)	ug/kg	5
EPA 8270C-SIM	PAH Compounds by GC/MS SIM (Modified 8270C)	mg/kg	5

Client ID: SB-30-D0.5 **Sample Date:** 04/6/2023 9:39

Lab ID: BED0024-22 **Matrix:** Soil **Quantity of Containers:** 2

Method	Analyte	Units	TAT
EPA 6010B	Lead, total by ICP	mg/kg	5
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5
EPA 8081A	Organochlorine Pesticides by GC/ECD	ug/kg	5

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Parsons	AETL Job Number:	BED0024	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/14/2023 11:07

Total Number of Samples received: **8**

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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Parsons	AETL Job Number:	BED0024	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 11:07	

Positive Hits Summary

Lab ID	Client ID				Sampled
BED0024-01	SB-48-D0.5				04/06/2023 07:09
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	15.5		mg/kg	04/13/2023 17:23
EPA 8081A	4,4'-DDD (DDD)	0.126	J	ug/kg	04/13/2023 11:54
EPA 8081A	4,4'-DDE (DDE)	0.545	J	ug/kg	04/13/2023 11:54
EPA 8081A	4,4'-DDT (DDT)	1.02		ug/kg	04/13/2023 11:54
EPA 8081A	Endrin	0.249	J	ug/kg	04/13/2023 11:54

Lab ID	Client ID				Sampled
BED0024-04	SB-49-D0.5				04/06/2023 07:26
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	9.32		mg/kg	04/13/2023 17:26
EPA 8081A	alpha-Chlordane	0.718	DIL, J	ug/kg	04/13/2023 12:11
EPA 8081A	gamma-Chlordane	0.944	DIL, J	ug/kg	04/13/2023 12:11
EPA 8081A	4,4'-DDD (DDD)	4.30	DIL	ug/kg	04/13/2023 12:11
EPA 8081A	4,4'-DDE (DDE)	92.3	DIL	ug/kg	04/13/2023 12:11
EPA 8081A	4,4'-DDT (DDT)	63.3	DIL	ug/kg	04/13/2023 12:11
EPA 8081A	Dieldrin	0.373	DIL, J	ug/kg	04/13/2023 12:11
EPA 8081A	Endrin	2.52	DIL	ug/kg	04/13/2023 12:11
EPA 8081A	Endrin aldehyde	0.698	DIL, J	ug/kg	04/13/2023 12:11

Lab ID	Client ID				Sampled
BED0024-07	SB-17-D0.5				04/06/2023 08:09
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	4.99	J	mg/kg	04/13/2023 17:29
EPA 8081A	4,4'-DDE (DDE)	0.242	J	ug/kg	04/13/2023 12:28

Lab ID	Client ID				Sampled
BED0024-10	SB-32-D0.5				04/06/2023 09:07
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	60.3		mg/kg	04/13/2023 17:32
EPA 8081A	Aldrin	1.10		ug/kg	04/13/2023 13:03
EPA 8081A	alpha-Chlordane	0.481	J	ug/kg	04/13/2023 13:03
EPA 8081A	gamma-Chlordane	1.04		ug/kg	04/13/2023 13:03

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Parsons	AETL Job Number:	BED0024	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 11:07	

Positive Hits Summary
(Continued)

Lab ID	Client ID				Sampled
BED0024-10	SB-32-D0.5				04/06/2023 09:07
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 8081A	Chlordane (Total)	1.52	J	ug/kg	04/13/2023 13:03
EPA 8081A	4,4'-DDE (DDE)	0.938	J	ug/kg	04/13/2023 13:03
EPA 8081A	Dieldrin	82.8		ug/kg	04/13/2023 13:03
EPA 8081A	Endrin	0.432	J	ug/kg	04/13/2023 13:03

Lab ID	Client ID				Sampled
BED0024-13	SB-28-D0.5				04/06/2023 09:22
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	262		mg/kg	04/13/2023 17:36
EPA 8081A	alpha-Chlordane	7.43		ug/kg	04/13/2023 14:30
EPA 8081A	gamma-Chlordane	6.81		ug/kg	04/13/2023 14:30
EPA 8081A	Chlordane (Total)	14.2		ug/kg	04/13/2023 14:30
EPA 8081A	4,4'-DDD (DDD)	0.822	J	ug/kg	04/13/2023 14:30
EPA 8081A	4,4'-DDE (DDE)	1.26		ug/kg	04/13/2023 14:30
EPA 8081A	4,4'-DDT (DDT)	16.4		ug/kg	04/13/2023 14:30
EPA 8081A	Dieldrin	1.07		ug/kg	04/13/2023 14:30
EPA 8081A	Endrin	0.938	J	ug/kg	04/13/2023 14:30
EPA 8081A	Heptachlor epoxide	0.838	J	ug/kg	04/13/2023 14:30

Lab ID	Client ID				Sampled
BED0024-16	SB-31-D0.5				04/06/2023 08:47
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	5.87		mg/kg	04/13/2023 17:38
EPA 6010B	Nickel	12.5		mg/kg	04/13/2023 17:38

Lab ID	Client ID				Sampled
BED0024-19	SB-20-D0.5				04/06/2023 08:27
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	9.47		mg/kg	04/13/2023 17:49
EPA 6010B	Nickel	17.6		mg/kg	04/13/2023 17:49
EPA 8081A	4,4'-DDT (DDT)	1.11	DIL, J	ug/kg	04/13/2023 14:13

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Parsons	AETL Job Number:	BED0024	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 11:07	

Positive Hits Summary
(Continued)

Lab ID	Client ID				Sampled
BED0024-22	SB-30-D0.5				04/06/2023 09:39
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	**Lead**	**25.4**		**mg/kg**	**04/13/2023 17:52**
EPA 8081A	**4,4'-DDE (DDE)**	**0.542**	**J**	**ug/kg**	**04/13/2023 14:47**

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Parsons	AETL Job Number:	BED0024	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 11:07	

Analytical Results

Client ID: SB-48-D0.5

Lab ID: BED0024-01 (Soil) **Sampled: 04/06/23 7:09**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Lead	**15.5**		1	0.550	5.00	mg/kg	04/10/23 07:57	04/13/23 17:23	B3D0082	LE	3050B
Organochlorine Pesticides											
Method: EPA 8081A											
Aldrin	ND		1	0.0900	1.00	ug/kg	04/13/23 08:07	04/13/23 11:54	B3D0155	BC	3550B
alpha-Chlordane	ND		1	0.121	1.00	ug/kg	04/13/23 08:07	04/13/23 11:54	B3D0155	BC	3550B
gamma-Chlordane	ND		1	0.114	1.00	ug/kg	04/13/23 08:07	04/13/23 11:54	B3D0155	BC	3550B
Chlordane (Total)	ND		1	1.00	2.00	ug/kg	04/13/23 08:07	04/13/23 11:54	B3D0155	BC	3550B
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	ND		1	0.0620	1.00	ug/kg	04/13/23 08:07	04/13/23 11:54	B3D0155	BC	3550B
alpha-Hexachlorocyclohexane (Alpha-BHC)	ND		1	0.0710	1.00	ug/kg	04/13/23 08:07	04/13/23 11:54	B3D0155	BC	3550B
beta-Hexachlorocyclohexane (Betta-BHC)	ND		1	0.217	1.00	ug/kg	04/13/23 08:07	04/13/23 11:54	B3D0155	BC	3550B
delta-Hexachlorocyclohexane (Delta-BHC)	ND		1	0.0880	1.00	ug/kg	04/13/23 08:07	04/13/23 11:54	B3D0155	BC	3550B
4,4'-DDD (DDD)	**0.126**	J	1	0.0980	1.00	ug/kg	04/13/23 08:07	04/13/23 11:54	B3D0155	BC	3550B
4,4'-DDE (DDE)	**0.545**	J	1	0.0930	1.00	ug/kg	04/13/23 08:07	04/13/23 11:54	B3D0155	BC	3550B
4,4'-DDT (DDT)	**1.02**		1	0.235	1.00	ug/kg	04/13/23 08:07	04/13/23 11:54	B3D0155	BC	3550B
Dieldrin	ND		1	0.0950	1.00	ug/kg	04/13/23 08:07	04/13/23 11:54	B3D0155	BC	3550B
Endrin	**0.249**	J	1	0.106	1.00	ug/kg	04/13/23 08:07	04/13/23 11:54	B3D0155	BC	3550B
Endrin aldehyde	ND		1	0.117	1.00	ug/kg	04/13/23 08:07	04/13/23 11:54	B3D0155	BC	3550B
Endrin ketone	ND		1	0.122	1.00	ug/kg	04/13/23 08:07	04/13/23 11:54	B3D0155	BC	3550B
Endosulfan 1	ND		1	0.115	1.00	ug/kg	04/13/23 08:07	04/13/23 11:54	B3D0155	BC	3550B
Endosulfan 11	ND		1	0.177	1.00	ug/kg	04/13/23 08:07	04/13/23 11:54	B3D0155	BC	3550B
Endosulfan sulfate	ND		1	0.0470	1.00	ug/kg	04/13/23 08:07	04/13/23 11:54	B3D0155	BC	3550B
Heptachlor	ND		1	0.206	1.00	ug/kg	04/13/23 08:07	04/13/23 11:54	B3D0155	BC	3550B
Heptachlor epoxide	ND		1	0.101	1.00	ug/kg	04/13/23 08:07	04/13/23 11:54	B3D0155	BC	3550B
Methoxychlor	ND		1	0.310	1.00	ug/kg	04/13/23 08:07	04/13/23 11:54	B3D0155	BC	3550B
Toxaphene	ND		1	4.10	50.0	ug/kg	04/13/23 08:07	04/13/23 11:54	B3D0155	BC	3550B
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*34.0%*				*30-150*		04/13/23 08:07	*04/13/23 11:54*	B3D0155	*BC*	3550B
Surrogate: Tetrachloro-m-xylene	*75.8%*				*30-150*		04/13/23 08:07	*04/13/23 11:54*	B3D0155	*BC*	3550B

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Parsons	AETL Job Number:	BED0024	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 11:07	

Analytical Results

Client ID: **SB-48-D0.5**
Lab ID: **BED0024-01 (Soil)** **Sampled:** **04/06/23 7:09**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method

Organochlorine Pesticides (Continued)

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Parsons	AETL Job Number:	BED0024	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 11:07	

Analytical Results

Client ID: SB-49-D0.5
Lab ID: BED0024-04 (Soil) **Sampled: 04/06/23 7:26**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Lead	**9.32**		1	0.550	5.00	mg/kg	04/10/23 07:57	04/13/23 17:26	B3D0082	LE	3050B
Organochlorine Pesticides											
Method: EPA 8081A											
Aldrin	ND	D	2	0.180	2.00	ug/kg	04/13/23 08:07	04/13/23 12:11	B3D0155	BC	3550B
alpha-Chlordane	**0.718**	DIL, J	2	0.242	2.00	ug/kg	04/13/23 08:07	04/13/23 12:11	B3D0155	BC	3550B
gamma-Chlordane	**0.944**	DIL, J	2	0.228	2.00	ug/kg	04/13/23 08:07	04/13/23 12:11	B3D0155	BC	3550B
Chlordane (Total)	ND	D	2	2.00	4.00	ug/kg	04/13/23 08:07	04/13/23 12:11	B3D0155	BC	3550B
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	ND	D	2	0.124	2.00	ug/kg	04/13/23 08:07	04/13/23 12:11	B3D0155	BC	3550B
alpha-Hexachlorocyclohexane (Alpha-BHC)	ND	D	2	0.142	2.00	ug/kg	04/13/23 08:07	04/13/23 12:11	B3D0155	BC	3550B
beta-Hexachlorocyclohexane (Betta-BHC)	ND	D	2	0.434	2.00	ug/kg	04/13/23 08:07	04/13/23 12:11	B3D0155	BC	3550B
delta-Hexachlorocyclohexane (Delta-BHC)	ND	D	2	0.176	2.00	ug/kg	04/13/23 08:07	04/13/23 12:11	B3D0155	BC	3550B
4,4'-DDD (DDD)	**4.30**	DIL	2	0.196	2.00	ug/kg	04/13/23 08:07	04/13/23 12:11	B3D0155	BC	3550B
4,4'-DDE (DDE)	**92.3**	DIL	2	0.186	2.00	ug/kg	04/13/23 08:07	04/13/23 12:11	B3D0155	BC	3550B
4,4'-DDT (DDT)	**63.3**	DIL	2	0.470	2.00	ug/kg	04/13/23 08:07	04/13/23 12:11	B3D0155	BC	3550B
Dieldrin	**0.373**	DIL, J	2	0.190	2.00	ug/kg	04/13/23 08:07	04/13/23 12:11	B3D0155	BC	3550B
Endrin	**2.52**	DIL	2	0.212	2.00	ug/kg	04/13/23 08:07	04/13/23 12:11	B3D0155	BC	3550B
Endrin aldehyde	**0.698**	DIL, J	2	0.234	2.00	ug/kg	04/13/23 08:07	04/13/23 12:11	B3D0155	BC	3550B
Endrin ketone	ND	D	2	0.244	2.00	ug/kg	04/13/23 08:07	04/13/23 12:11	B3D0155	BC	3550B
Endosulfan 1	ND	D	2	0.230	2.00	ug/kg	04/13/23 08:07	04/13/23 12:11	B3D0155	BC	3550B
Endosulfan 11	ND	D	2	0.354	2.00	ug/kg	04/13/23 08:07	04/13/23 12:11	B3D0155	BC	3550B
Endosulfan sulfate	ND	D	2	0.0940	2.00	ug/kg	04/13/23 08:07	04/13/23 12:11	B3D0155	BC	3550B
Heptachlor	ND	D	2	0.412	2.00	ug/kg	04/13/23 08:07	04/13/23 12:11	B3D0155	BC	3550B
Heptachlor epoxide	ND	D	2	0.202	2.00	ug/kg	04/13/23 08:07	04/13/23 12:11	B3D0155	BC	3550B
Methoxychlor	ND	D	2	0.620	2.00	ug/kg	04/13/23 08:07	04/13/23 12:11	B3D0155	BC	3550B
Toxaphene	ND	D	2	8.20	100	ug/kg	04/13/23 08:07	04/13/23 12:11	B3D0155	BC	3550B
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*65.8%*				*30-150*		04/13/23 08:07	*04/13/23 12:11*	B3D0155	*BC*	3550B
Surrogate: Tetrachloro-m-xylene	*69.1%*				*30-150*		04/13/23 08:07	*04/13/23 12:11*	B3D0155	*BC*	3550B

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Parsons	AETL Job Number:	BED0024	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 11:07	

Analytical Results

Client ID: **SB-49-D0.5**
Lab ID: **BED0024-04 (Soil)** **Sampled:** **04/06/23 7:26**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method

Organochlorine Pesticides (Continued)

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Parsons	AETL Job Number:	BED0024	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 11:07	

Analytical Results

Client ID: SB-17-D0.5
Lab ID: BED0024-07 (Soil) **Sampled: 04/06/23 8:09**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Lead	**4.99**	J	1	0.550	5.00	mg/kg	04/10/23 07:57	04/13/23 17:29	B3D0082	LE	3050B
Organochlorine Pesticides											
Method: EPA 8081A											
Aldrin	ND		1	0.0900	1.00	ug/kg	04/13/23 08:07	04/13/23 12:28	B3D0155	BC	3550B
alpha-Chlordane	ND		1	0.121	1.00	ug/kg	04/13/23 08:07	04/13/23 12:28	B3D0155	BC	3550B
gamma-Chlordane	ND		1	0.114	1.00	ug/kg	04/13/23 08:07	04/13/23 12:28	B3D0155	BC	3550B
Chlordane (Total)	ND		1	1.00	2.00	ug/kg	04/13/23 08:07	04/13/23 12:28	B3D0155	BC	3550B
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	ND		1	0.0620	1.00	ug/kg	04/13/23 08:07	04/13/23 12:28	B3D0155	BC	3550B
alpha-Hexachlorocyclohexane (Alpha-BHC)	ND		1	0.0710	1.00	ug/kg	04/13/23 08:07	04/13/23 12:28	B3D0155	BC	3550B
beta-Hexachlorocyclohexane (Betta-BHC)	ND		1	0.217	1.00	ug/kg	04/13/23 08:07	04/13/23 12:28	B3D0155	BC	3550B
delta-Hexachlorocyclohexane (Delta-BHC)	ND		1	0.0880	1.00	ug/kg	04/13/23 08:07	04/13/23 12:28	B3D0155	BC	3550B
4,4'-DDD (DDD)	ND		1	0.0980	1.00	ug/kg	04/13/23 08:07	04/13/23 12:28	B3D0155	BC	3550B
4,4'-DDE (DDE)	**0.242**	J	1	0.0930	1.00	ug/kg	04/13/23 08:07	04/13/23 12:28	B3D0155	BC	3550B
4,4'-DDT (DDT)	ND		1	0.235	1.00	ug/kg	04/13/23 08:07	04/13/23 12:28	B3D0155	BC	3550B
Dieldrin	ND		1	0.0950	1.00	ug/kg	04/13/23 08:07	04/13/23 12:28	B3D0155	BC	3550B
Endrin	ND		1	0.106	1.00	ug/kg	04/13/23 08:07	04/13/23 12:28	B3D0155	BC	3550B
Endrin aldehyde	ND		1	0.117	1.00	ug/kg	04/13/23 08:07	04/13/23 12:28	B3D0155	BC	3550B
Endrin ketone	ND		1	0.122	1.00	ug/kg	04/13/23 08:07	04/13/23 12:28	B3D0155	BC	3550B
Endosulfan 1	ND		1	0.115	1.00	ug/kg	04/13/23 08:07	04/13/23 12:28	B3D0155	BC	3550B
Endosulfan 11	ND		1	0.177	1.00	ug/kg	04/13/23 08:07	04/13/23 12:28	B3D0155	BC	3550B
Endosulfan sulfate	ND		1	0.0470	1.00	ug/kg	04/13/23 08:07	04/13/23 12:28	B3D0155	BC	3550B
Heptachlor	ND		1	0.206	1.00	ug/kg	04/13/23 08:07	04/13/23 12:28	B3D0155	BC	3550B
Heptachlor epoxide	ND		1	0.101	1.00	ug/kg	04/13/23 08:07	04/13/23 12:28	B3D0155	BC	3550B
Methoxychlor	ND		1	0.310	1.00	ug/kg	04/13/23 08:07	04/13/23 12:28	B3D0155	BC	3550B
Toxaphene	ND		1	4.10	50.0	ug/kg	04/13/23 08:07	04/13/23 12:28	B3D0155	BC	3550B
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*62.2%*				*30-150*		04/13/23 08:07	*04/13/23 12:28*	B3D0155	*BC*	3550B
Surrogate: Tetrachloro-m-xylene	*63.1%*				*30-150*		04/13/23 08:07	*04/13/23 12:28*	B3D0155	*BC*	3550B

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Parsons	AETL Job Number:	BED0024	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 11:07	

Analytical Results

Client ID: **SB-17-D0.5**
Lab ID: **BED0024-07 (Soil)** **Sampled:** **04/06/23 8:09**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method

Organochlorine Pesticides (Continued)

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Parsons	AETL Job Number:	BED0024	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 11:07	

Analytical Results

Client ID: SB-32-D0.5
Lab ID: BED0024-10 (Soil) **Sampled: 04/06/23 9:07**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Lead	**60.3**		1	0.550	5.00	mg/kg	04/10/23 07:57	04/13/23 17:32	B3D0082	LE	3050B
Organochlorine Pesticides											
Method: EPA 8081A											
Aldrin	**1.10**		1	0.0900	1.00	ug/kg	04/13/23 08:07	04/13/23 13:03	B3D0155	BC	3550B
alpha-Chlordane	**0.481**	J	1	0.121	1.00	ug/kg	04/13/23 08:07	04/13/23 13:03	B3D0155	BC	3550B
gamma-Chlordane	**1.04**		1	0.114	1.00	ug/kg	04/13/23 08:07	04/13/23 13:03	B3D0155	BC	3550B
Chlordane (Total)	**1.52**	J	1	1.00	2.00	ug/kg	04/13/23 08:07	04/13/23 13:03	B3D0155	BC	3550B
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	ND		1	0.0620	1.00	ug/kg	04/13/23 08:07	04/13/23 13:03	B3D0155	BC	3550B
alpha-Hexachlorocyclohexane (Alpha-BHC)	ND		1	0.0710	1.00	ug/kg	04/13/23 08:07	04/13/23 13:03	B3D0155	BC	3550B
beta-Hexachlorocyclohexane (Betta-BHC)	ND		1	0.217	1.00	ug/kg	04/13/23 08:07	04/13/23 13:03	B3D0155	BC	3550B
delta-Hexachlorocyclohexane (Delta-BHC)	ND		1	0.0880	1.00	ug/kg	04/13/23 08:07	04/13/23 13:03	B3D0155	BC	3550B
4,4'-DDD (DDD)	ND		1	0.0980	1.00	ug/kg	04/13/23 08:07	04/13/23 13:03	B3D0155	BC	3550B
4,4'-DDE (DDE)	**0.938**	J	1	0.0930	1.00	ug/kg	04/13/23 08:07	04/13/23 13:03	B3D0155	BC	3550B
4,4'-DDT (DDT)	ND		1	0.235	1.00	ug/kg	04/13/23 08:07	04/13/23 13:03	B3D0155	BC	3550B
Dieldrin	**82.8**		1	0.0950	1.00	ug/kg	04/13/23 08:07	04/13/23 13:03	B3D0155	BC	3550B
Endrin	**0.432**	J	1	0.106	1.00	ug/kg	04/13/23 08:07	04/13/23 13:03	B3D0155	BC	3550B
Endrin aldehyde	ND		1	0.117	1.00	ug/kg	04/13/23 08:07	04/13/23 13:03	B3D0155	BC	3550B
Endrin ketone	ND		1	0.122	1.00	ug/kg	04/13/23 08:07	04/13/23 13:03	B3D0155	BC	3550B
Endosulfan 1	ND		1	0.115	1.00	ug/kg	04/13/23 08:07	04/13/23 13:03	B3D0155	BC	3550B
Endosulfan 11	ND		1	0.177	1.00	ug/kg	04/13/23 08:07	04/13/23 13:03	B3D0155	BC	3550B
Endosulfan sulfate	ND		1	0.0470	1.00	ug/kg	04/13/23 08:07	04/13/23 13:03	B3D0155	BC	3550B
Heptachlor	ND		1	0.206	1.00	ug/kg	04/13/23 08:07	04/13/23 13:03	B3D0155	BC	3550B
Heptachlor epoxide	ND		1	0.101	1.00	ug/kg	04/13/23 08:07	04/13/23 13:03	B3D0155	BC	3550B
Methoxychlor	ND		1	0.310	1.00	ug/kg	04/13/23 08:07	04/13/23 13:03	B3D0155	BC	3550B
Toxaphene	ND		1	4.10	50.0	ug/kg	04/13/23 08:07	04/13/23 13:03	B3D0155	BC	3550B
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*62.1%*				*30-150*		04/13/23 08:07	*04/13/23 13:03*	B3D0155	*BC*	3550B
Surrogate: Tetrachloro-m-xylene	*66.3%*				*30-150*		04/13/23 08:07	*04/13/23 13:03*	B3D0155	*BC*	3550B

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Parsons	AETL Job Number:	BED0024	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 11:07	

Analytical Results

Client ID: **SB-32-D0.5**
Lab ID: **BED0024-10 (Soil)** **Sampled:** **04/06/23 9:07**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method

Organochlorine Pesticides (Continued)

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Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 11:07	

Analytical Results

Client ID: SB-28-D0.5
Lab ID: BED0024-13 (Soil) **Sampled: 04/06/23 9:22**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Lead	**262**		1	0.550	5.00	mg/kg	04/10/23 07:57	04/13/23 17:36	B3D0082	LE	3050B
Organochlorine Pesticides											
Method: EPA 8081A											
Aldrin	ND		1	0.0900	1.00	ug/kg	04/13/23 08:07	04/13/23 14:30	B3D0155	BC	3550B
alpha-Chlordane	**7.43**		1	0.121	1.00	ug/kg	04/13/23 08:07	04/13/23 14:30	B3D0155	BC	3550B
gamma-Chlordane	**6.81**		1	0.114	1.00	ug/kg	04/13/23 08:07	04/13/23 14:30	B3D0155	BC	3550B
Chlordane (Total)	**14.2**		1	1.00	2.00	ug/kg	04/13/23 08:07	04/13/23 14:30	B3D0155	BC	3550B
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	ND		1	0.0620	1.00	ug/kg	04/13/23 08:07	04/13/23 14:30	B3D0155	BC	3550B
alpha-Hexachlorocyclohexane (Alpha-BHC)	ND		1	0.0710	1.00	ug/kg	04/13/23 08:07	04/13/23 14:30	B3D0155	BC	3550B
beta-Hexachlorocyclohexane (Betta-BHC)	ND		1	0.217	1.00	ug/kg	04/13/23 08:07	04/13/23 14:30	B3D0155	BC	3550B
delta-Hexachlorocyclohexane (Delta-BHC)	ND		1	0.0880	1.00	ug/kg	04/13/23 08:07	04/13/23 14:30	B3D0155	BC	3550B
4,4'-DDD (DDD)	**0.822**	J	1	0.0980	1.00	ug/kg	04/13/23 08:07	04/13/23 14:30	B3D0155	BC	3550B
4,4'-DDE (DDE)	**1.26**		1	0.0930	1.00	ug/kg	04/13/23 08:07	04/13/23 14:30	B3D0155	BC	3550B
4,4'-DDT (DDT)	**16.4**		1	0.235	1.00	ug/kg	04/13/23 08:07	04/13/23 14:30	B3D0155	BC	3550B
Dieldrin	**1.07**		1	0.0950	1.00	ug/kg	04/13/23 08:07	04/13/23 14:30	B3D0155	BC	3550B
Endrin	**0.938**	J	1	0.106	1.00	ug/kg	04/13/23 08:07	04/13/23 14:30	B3D0155	BC	3550B
Endrin aldehyde	ND		1	0.117	1.00	ug/kg	04/13/23 08:07	04/13/23 14:30	B3D0155	BC	3550B
Endrin ketone	ND		1	0.122	1.00	ug/kg	04/13/23 08:07	04/13/23 14:30	B3D0155	BC	3550B
Endosulfan 1	ND		1	0.115	1.00	ug/kg	04/13/23 08:07	04/13/23 14:30	B3D0155	BC	3550B
Endosulfan 11	ND		1	0.177	1.00	ug/kg	04/13/23 08:07	04/13/23 14:30	B3D0155	BC	3550B
Endosulfan sulfate	ND		1	0.0470	1.00	ug/kg	04/13/23 08:07	04/13/23 14:30	B3D0155	BC	3550B
Heptachlor	ND		1	0.206	1.00	ug/kg	04/13/23 08:07	04/13/23 14:30	B3D0155	BC	3550B
Heptachlor epoxide	**0.838**	J	1	0.101	1.00	ug/kg	04/13/23 08:07	04/13/23 14:30	B3D0155	BC	3550B
Methoxychlor	ND		1	0.310	1.00	ug/kg	04/13/23 08:07	04/13/23 14:30	B3D0155	BC	3550B
Toxaphene	ND		1	4.10	50.0	ug/kg	04/13/23 08:07	04/13/23 14:30	B3D0155	BC	3550B
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*54.7%*				*30-150*		04/13/23 08:07	*04/13/23 14:30*	B3D0155	*BC*	3550B
Surrogate: Tetrachloro-m-xylene	*58.3%*				*30-150*		04/13/23 08:07	*04/13/23 14:30*	B3D0155	*BC*	3550B

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Parsons	AETL Job Number:	BED0024	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 11:07	

Analytical Results

Client ID: **SB-28-D0.5**
Lab ID: **BED0024-13 (Soil)** **Sampled:** **04/06/23 9:22**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method

Organochlorine Pesticides (Continued)

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Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 11:07	

Analytical Results

Client ID: SB-31-D0.5
Lab ID: BED0024-16 (Soil) **Sampled: 04/06/23 8:47**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Cadmium	ND		1	1.29	2.48	mg/kg	04/10/23 07:57	04/13/23 17:38	B3D0082	LE	3050B
Lead	**5.87**		1	0.550	5.00	mg/kg	04/10/23 07:57	04/13/23 17:38	B3D0082	LE	3050B
Nickel	**12.5**		1	2.48	4.95	mg/kg	04/10/23 07:57	04/13/23 17:38	B3D0082	LE	3050B
Method: EPA 7471A											
Mercury	ND		1	0.0180	0.170	mg/kg	04/07/23 12:01	04/10/23 15:56	B3D0083	LE	7471A
Polynuclear Aromatic Hydrocarbons											
Method: EPA 8270C-SIM											
2-Methylnaphthalene	ND		1	0.00996	0.0622	mg/kg	04/12/23 10:43	04/12/23 20:11	B3D0135	ATS	3550B
Acenaphthene	ND		1	0.0539	0.124	mg/kg	04/12/23 10:43	04/12/23 20:11	B3D0135	ATS	3550B
Acenaphthylene	ND		1	0.0466	0.124	mg/kg	04/12/23 10:43	04/12/23 20:11	B3D0135	ATS	3550B
Anthracene	ND		1	0.0558	0.124	mg/kg	04/12/23 10:43	04/12/23 20:11	B3D0135	ATS	3550B
Benzo(a)anthracene	ND		1	0.0446	0.124	mg/kg	04/12/23 10:43	04/12/23 20:11	B3D0135	ATS	3550B
Benzo(a)pyrene	ND		1	0.0603	0.124	mg/kg	04/12/23 10:43	04/12/23 20:11	B3D0135	ATS	3550B
Benzo(b)fluoranthene	ND		1	0.0380	0.124	mg/kg	04/12/23 10:43	04/12/23 20:11	B3D0135	ATS	3550B
Benzo(g,h,i)perylene	ND		1	0.0658	0.124	mg/kg	04/12/23 10:43	04/12/23 20:11	B3D0135	ATS	3550B
Benzo(k)fluoranthene	ND		1	0.0593	0.124	mg/kg	04/12/23 10:43	04/12/23 20:11	B3D0135	ATS	3550B
Chrysene	ND		1	0.0424	0.124	mg/kg	04/12/23 10:43	04/12/23 20:11	B3D0135	ATS	3550B
Dibenzo(a,h)anthracene	ND		1	0.0836	0.124	mg/kg	04/12/23 10:43	04/12/23 20:11	B3D0135	ATS	3550B
Fluoranthene	ND		1	0.0605	0.124	mg/kg	04/12/23 10:43	04/12/23 20:11	B3D0135	ATS	3550B
Fluorene	ND		1	0.0575	0.124	mg/kg	04/12/23 10:43	04/12/23 20:11	B3D0135	ATS	3550B
Indeno(1,2,3-cd)pyrene	ND		1	0.0849	0.124	mg/kg	04/12/23 10:43	04/12/23 20:11	B3D0135	ATS	3550B
Naphthalene	ND		1	0.0466	0.124	mg/kg	04/12/23 10:43	04/12/23 20:11	B3D0135	ATS	3550B
Phenanthrene	ND		1	0.0515	0.124	mg/kg	04/12/23 10:43	04/12/23 20:11	B3D0135	ATS	3550B
Pyrene	ND		1	0.0488	0.124	mg/kg	04/12/23 10:43	04/12/23 20:11	B3D0135	ATS	3550B
	Recovery				Acceptance Criteria						
Surrogate: p-Terphenyl-D14	*57.5%*				*40-130*		04/12/23 10:43	*04/12/23 20:11*	B3D0135	*ATS*	3550B
Organochlorine Pesticides											

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100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 11:07	

Analytical Results

Client ID: SB-31-D0.5

Lab ID: BED0024-16 (Soil) **Sampled: 04/06/23 8:47**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Organochlorine Pesticides (Continued)											
Method: EPA 8081A											
Aldrin	ND		1	0.0900	1.00	ug/kg	04/13/23 08:07	04/13/23 13:37	B3D0155	BC	3550B
alpha-Chlordane	ND		1	0.121	1.00	ug/kg	04/13/23 08:07	04/13/23 13:37	B3D0155	BC	3550B
gamma-Chlordane	ND		1	0.114	1.00	ug/kg	04/13/23 08:07	04/13/23 13:37	B3D0155	BC	3550B
Chlordane (Total)	ND		1	1.00	2.00	ug/kg	04/13/23 08:07	04/13/23 13:37	B3D0155	BC	3550B
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	ND		1	0.0620	1.00	ug/kg	04/13/23 08:07	04/13/23 13:37	B3D0155	BC	3550B
alpha-Hexachlorocyclohexane (Alpha-BHC)	ND		1	0.0710	1.00	ug/kg	04/13/23 08:07	04/13/23 13:37	B3D0155	BC	3550B
beta-Hexachlorocyclohexane (Betta-BHC)	ND		1	0.217	1.00	ug/kg	04/13/23 08:07	04/13/23 13:37	B3D0155	BC	3550B
delta-Hexachlorocyclohexane (Delta-BHC)	ND		1	0.0880	1.00	ug/kg	04/13/23 08:07	04/13/23 13:37	B3D0155	BC	3550B
4,4'-DDD (DDD)	ND		1	0.0980	1.00	ug/kg	04/13/23 08:07	04/13/23 13:37	B3D0155	BC	3550B
4,4'-DDE (DDE)	ND		1	0.0930	1.00	ug/kg	04/13/23 08:07	04/13/23 13:37	B3D0155	BC	3550B
4,4'-DDT (DDT)	ND		1	0.235	1.00	ug/kg	04/13/23 08:07	04/13/23 13:37	B3D0155	BC	3550B
Dieldrin	ND		1	0.0950	1.00	ug/kg	04/13/23 08:07	04/13/23 13:37	B3D0155	BC	3550B
Endrin	ND		1	0.106	1.00	ug/kg	04/13/23 08:07	04/13/23 13:37	B3D0155	BC	3550B
Endrin aldehyde	ND		1	0.117	1.00	ug/kg	04/13/23 08:07	04/13/23 13:37	B3D0155	BC	3550B
Endrin ketone	ND		1	0.122	1.00	ug/kg	04/13/23 08:07	04/13/23 13:37	B3D0155	BC	3550B
Endosulfan 1	ND		1	0.115	1.00	ug/kg	04/13/23 08:07	04/13/23 13:37	B3D0155	BC	3550B
Endosulfan 11	ND		1	0.177	1.00	ug/kg	04/13/23 08:07	04/13/23 13:37	B3D0155	BC	3550B
Endosulfan sulfate	ND		1	0.0470	1.00	ug/kg	04/13/23 08:07	04/13/23 13:37	B3D0155	BC	3550B
Heptachlor	ND		1	0.206	1.00	ug/kg	04/13/23 08:07	04/13/23 13:37	B3D0155	BC	3550B
Heptachlor epoxide	ND		1	0.101	1.00	ug/kg	04/13/23 08:07	04/13/23 13:37	B3D0155	BC	3550B
Methoxychlor	ND		1	0.310	1.00	ug/kg	04/13/23 08:07	04/13/23 13:37	B3D0155	BC	3550B
Toxaphene	ND		1	4.10	50.0	ug/kg	04/13/23 08:07	04/13/23 13:37	B3D0155	BC	3550B
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*68.1%*				*30-150*		04/13/23 08:07	*04/13/23 13:37*	B3D0155	*BC*	3550B
Surrogate: Tetrachloro-m-xylene	*67.7%*				*30-150*		04/13/23 08:07	*04/13/23 13:37*	B3D0155	*BC*	3550B
PCBs											
Method: EPA 8082											
Aroclor-1016 (PCB-1016)	ND		1	11.6	25.0	ug/kg	04/12/23 11:05	04/13/23 11:26	B3D0140	BC	3550B
Aroclor-1221 (PCB-1221)	ND		1	8.11	25.0	ug/kg	04/12/23 11:05	04/13/23 11:26	B3D0140	BC	3550B

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Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 11:07	

Analytical Results

Client ID: SB-31-D0.5

Lab ID: BED0024-16 (Soil) **Sampled: 04/06/23 8:47**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
PCBs (Continued)											
Aroclor-1232 (PCB-1232)	ND		1	15.2	25.0	ug/kg	04/12/23 11:05	04/13/23 11:26	B3D0140	BC	3550B
Aroclor-1242 (PCB-1242)	ND		1	5.25	25.0	ug/kg	04/12/23 11:05	04/13/23 11:26	B3D0140	BC	3550B
Aroclor-1248 (PCB-1248)	ND		1	11.0	25.0	ug/kg	04/12/23 11:05	04/13/23 11:26	B3D0140	BC	3550B
Aroclor-1254 (PCB-1254)	ND		1	11.9	25.0	ug/kg	04/12/23 11:05	04/13/23 11:26	B3D0140	BC	3550B
Aroclor-1260 (PCB-1260)	ND		1	6.02	25.0	ug/kg	04/12/23 11:05	04/13/23 11:26	B3D0140	BC	3550B
Aroclor-1262 (PCB-1262)	ND		1	20.0	50.0	ug/kg	04/12/23 11:05	04/13/23 11:26	B3D0140	BC	3550B
Aroclor-1268 (PCB-1268)	ND		1	20.0	50.0	ug/kg	04/12/23 11:05	04/13/23 11:26	B3D0140	BC	3550B
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*100%*				*50-150*		04/12/23 11:05	*04/13/23 11:26*	B3D0140	*BC*	3550B
Surrogate: Tetrachloro-m-xylene	*87.1%*				*50-150*		04/12/23 11:05	*04/13/23 11:26*	B3D0140	*BC*	3550B

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Parsons	AETL Job Number:	BED0024	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 11:07	

Analytical Results

Client ID: SB-20-D0.5
Lab ID: BED0024-19 (Soil) **Sampled: 04/06/23 8:27**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Cadmium	ND		1	1.26	2.43	mg/kg	04/10/23 07:57	04/13/23 17:49	B3D0082	LE	3050B
Lead	**9.47**		1	0.550	5.00	mg/kg	04/10/23 07:57	04/13/23 17:49	B3D0082	LE	3050B
Nickel	**17.6**		1	2.43	4.85	mg/kg	04/10/23 07:57	04/13/23 17:49	B3D0082	LE	3050B
Method: EPA 7471A											
Mercury	ND		1	0.0180	0.170	mg/kg	04/07/23 12:01	04/10/23 15:58	B3D0083	LE	7471A
Polynuclear Aromatic Hydrocarbons											
Method: EPA 8270C-SIM											
2-Methylnaphthalene	ND		1	0.00198	0.0124	mg/kg	04/12/23 10:43	04/12/23 20:46	B3D0135	ATS	3550B
Acenaphthene	ND		1	0.0107	0.0248	mg/kg	04/12/23 10:43	04/12/23 20:46	B3D0135	ATS	3550B
Acenaphthylene	ND		1	0.00929	0.0248	mg/kg	04/12/23 10:43	04/12/23 20:46	B3D0135	ATS	3550B
Anthracene	ND		1	0.0111	0.0248	mg/kg	04/12/23 10:43	04/12/23 20:46	B3D0135	ATS	3550B
Benzo(a)anthracene	ND		1	0.00888	0.0248	mg/kg	04/12/23 10:43	04/12/23 20:46	B3D0135	ATS	3550B
Benzo(a)pyrene	ND		1	0.0120	0.0248	mg/kg	04/12/23 10:43	04/12/23 20:46	B3D0135	ATS	3550B
Benzo(b)fluoranthene	ND		1	0.00757	0.0248	mg/kg	04/12/23 10:43	04/12/23 20:46	B3D0135	ATS	3550B
Benzo(g,h,i)perylene	ND		1	0.0131	0.0248	mg/kg	04/12/23 10:43	04/12/23 20:46	B3D0135	ATS	3550B
Benzo(k)fluoranthene	ND		1	0.0118	0.0248	mg/kg	04/12/23 10:43	04/12/23 20:46	B3D0135	ATS	3550B
Chrysene	ND		1	0.00843	0.0248	mg/kg	04/12/23 10:43	04/12/23 20:46	B3D0135	ATS	3550B
Dibenzo(a,h)anthracene	ND		1	0.0166	0.0248	mg/kg	04/12/23 10:43	04/12/23 20:46	B3D0135	ATS	3550B
Fluoranthene	ND		1	0.0120	0.0248	mg/kg	04/12/23 10:43	04/12/23 20:46	B3D0135	ATS	3550B
Fluorene	ND		1	0.0114	0.0248	mg/kg	04/12/23 10:43	04/12/23 20:46	B3D0135	ATS	3550B
Indeno(1,2,3-cd)pyrene	ND		1	0.0169	0.0248	mg/kg	04/12/23 10:43	04/12/23 20:46	B3D0135	ATS	3550B
Naphthalene	ND		1	0.00928	0.0248	mg/kg	04/12/23 10:43	04/12/23 20:46	B3D0135	ATS	3550B
Phenanthrene	ND		1	0.0102	0.0248	mg/kg	04/12/23 10:43	04/12/23 20:46	B3D0135	ATS	3550B
Pyrene	ND		1	0.00972	0.0248	mg/kg	04/12/23 10:43	04/12/23 20:46	B3D0135	ATS	3550B
	Recovery				Acceptance Criteria						
Surrogate: p-Terphenyl-D14	*49.0%*				*40-130*		04/12/23 10:43	*04/12/23 20:46*	B3D0135	*ATS*	3550B
Organochlorine Pesticides											

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Parsons	AETL Job Number:	BED0024	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 11:07	

Analytical Results

Client ID: SB-20-D0.5

Lab ID: BED0024-19 (Soil) **Sampled: 04/06/23 8:27**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Organochlorine Pesticides (Continued)											
Method: EPA 8081A											
Aldrin	ND	D	2	0.180	2.00	ug/kg	04/13/23 08:07	04/13/23 14:13	B3D0155	BC	3550B
alpha-Chlordane	ND	D	2	0.242	2.00	ug/kg	04/13/23 08:07	04/13/23 14:13	B3D0155	BC	3550B
gamma-Chlordane	ND	D	2	0.228	2.00	ug/kg	04/13/23 08:07	04/13/23 14:13	B3D0155	BC	3550B
Chlordane (Total)	ND	D	2	2.00	4.00	ug/kg	04/13/23 08:07	04/13/23 14:13	B3D0155	BC	3550B
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	ND	D	2	0.124	2.00	ug/kg	04/13/23 08:07	04/13/23 14:13	B3D0155	BC	3550B
alpha-Hexachlorocyclohexane (Alpha-BHC)	ND	D	2	0.142	2.00	ug/kg	04/13/23 08:07	04/13/23 14:13	B3D0155	BC	3550B
beta-Hexachlorocyclohexane (Betta-BHC)	ND	D	2	0.434	2.00	ug/kg	04/13/23 08:07	04/13/23 14:13	B3D0155	BC	3550B
delta-Hexachlorocyclohexane (Delta-BHC)	ND	D	2	0.176	2.00	ug/kg	04/13/23 08:07	04/13/23 14:13	B3D0155	BC	3550B
4,4'-DDD (DDD)	ND	D	2	0.196	2.00	ug/kg	04/13/23 08:07	04/13/23 14:13	B3D0155	BC	3550B
4,4'-DDE (DDE)	ND	D	2	0.186	2.00	ug/kg	04/13/23 08:07	04/13/23 14:13	B3D0155	BC	3550B
4,4'-DDT (DDT)	**1.11**	DIL, J	2	0.470	2.00	ug/kg	04/13/23 08:07	04/13/23 14:13	B3D0155	BC	3550B
Dieldrin	ND	D	2	0.190	2.00	ug/kg	04/13/23 08:07	04/13/23 14:13	B3D0155	BC	3550B
Endrin	ND	D	2	0.212	2.00	ug/kg	04/13/23 08:07	04/13/23 14:13	B3D0155	BC	3550B
Endrin aldehyde	ND	D	2	0.234	2.00	ug/kg	04/13/23 08:07	04/13/23 14:13	B3D0155	BC	3550B
Endrin ketone	ND	D	2	0.244	2.00	ug/kg	04/13/23 08:07	04/13/23 14:13	B3D0155	BC	3550B
Endosulfan 1	ND	D	2	0.230	2.00	ug/kg	04/13/23 08:07	04/13/23 14:13	B3D0155	BC	3550B
Endosulfan 11	ND	D	2	0.354	2.00	ug/kg	04/13/23 08:07	04/13/23 14:13	B3D0155	BC	3550B
Endosulfan sulfate	ND	D	2	0.0940	2.00	ug/kg	04/13/23 08:07	04/13/23 14:13	B3D0155	BC	3550B
Heptachlor	ND	D	2	0.412	2.00	ug/kg	04/13/23 08:07	04/13/23 14:13	B3D0155	BC	3550B
Heptachlor epoxide	ND	D	2	0.202	2.00	ug/kg	04/13/23 08:07	04/13/23 14:13	B3D0155	BC	3550B
Methoxychlor	ND	D	2	0.620	2.00	ug/kg	04/13/23 08:07	04/13/23 14:13	B3D0155	BC	3550B
Toxaphene	ND	D	2	8.20	100	ug/kg	04/13/23 08:07	04/13/23 14:13	B3D0155	BC	3550B
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*66.1%*				*30-150*		04/13/23 08:07	*04/13/23 14:13*	B3D0155	*BC*	3550B
Surrogate: Tetrachloro-m-xylene	*75.3%*				*30-150*		04/13/23 08:07	*04/13/23 14:13*	B3D0155	*BC*	3550B
PCBs											
Method: EPA 8082											
Aroclor-1016 (PCB-1016)	ND	D	2	23.2	50.0	ug/kg	04/12/23 11:05	04/13/23 11:45	B3D0140	BC	3550B
Aroclor-1221 (PCB-1221)	ND	D	2	16.2	50.0	ug/kg	04/12/23 11:05	04/13/23 11:45	B3D0140	BC	3550B

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Parsons	AETL Job Number:	BED0024	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 11:07	

Analytical Results

Client ID: SB-20-D0.5

Lab ID: BED0024-19 (Soil) **Sampled: 04/06/23 8:27**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
PCBs (Continued)											
Aroclor-1232 (PCB-1232)	ND	D	2	30.4	50.0	ug/kg	04/12/23 11:05	04/13/23 11:45	B3D0140	BC	3550B
Aroclor-1242 (PCB-1242)	ND	D	2	10.5	50.0	ug/kg	04/12/23 11:05	04/13/23 11:45	B3D0140	BC	3550B
Aroclor-1248 (PCB-1248)	ND	D	2	22.0	50.0	ug/kg	04/12/23 11:05	04/13/23 11:45	B3D0140	BC	3550B
Aroclor-1254 (PCB-1254)	ND	D	2	23.8	50.0	ug/kg	04/12/23 11:05	04/13/23 11:45	B3D0140	BC	3550B
Aroclor-1260 (PCB-1260)	ND	D	2	12.0	50.0	ug/kg	04/12/23 11:05	04/13/23 11:45	B3D0140	BC	3550B
Aroclor-1262 (PCB-1262)	ND	D	2	40.0	100	ug/kg	04/12/23 11:05	04/13/23 11:45	B3D0140	BC	3550B
Aroclor-1268 (PCB-1268)	ND	D	2	40.0	100	ug/kg	04/12/23 11:05	04/13/23 11:45	B3D0140	BC	3550B
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*108%*				*50-150*		04/12/23 11:05	*04/13/23 11:45*	B3D0140	*BC*	3550B
Surrogate: Tetrachloro-m-xylene	*89.9%*				*50-150*		04/12/23 11:05	*04/13/23 11:45*	B3D0140	*BC*	3550B

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Parsons	AETL Job Number:	BED0024	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 11:07	

Analytical Results

Client ID: SB-30-D0.5
Lab ID: BED0024-22 (Soil) **Sampled: 04/06/23 9:39**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Lead	**25.4**		1	0.550	5.00	mg/kg	04/10/23 07:57	04/13/23 17:52	B3D0082	LE	3050B
Organochlorine Pesticides											
Method: EPA 8081A											
Aldrin	ND		1	0.0900	1.00	ug/kg	04/13/23 08:07	04/13/23 14:47	B3D0155	BC	3550B
alpha-Chlordane	ND		1	0.121	1.00	ug/kg	04/13/23 08:07	04/13/23 14:47	B3D0155	BC	3550B
gamma-Chlordane	ND		1	0.114	1.00	ug/kg	04/13/23 08:07	04/13/23 14:47	B3D0155	BC	3550B
Chlordane (Total)	ND		1	1.00	2.00	ug/kg	04/13/23 08:07	04/13/23 14:47	B3D0155	BC	3550B
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	ND		1	0.0620	1.00	ug/kg	04/13/23 08:07	04/13/23 14:47	B3D0155	BC	3550B
alpha-Hexachlorocyclohexane (Alpha-BHC)	ND		1	0.0710	1.00	ug/kg	04/13/23 08:07	04/13/23 14:47	B3D0155	BC	3550B
beta-Hexachlorocyclohexane (Betta-BHC)	ND		1	0.217	1.00	ug/kg	04/13/23 08:07	04/13/23 14:47	B3D0155	BC	3550B
delta-Hexachlorocyclohexane (Delta-BHC)	ND		1	0.0880	1.00	ug/kg	04/13/23 08:07	04/13/23 14:47	B3D0155	BC	3550B
4,4'-DDD (DDD)	ND		1	0.0980	1.00	ug/kg	04/13/23 08:07	04/13/23 14:47	B3D0155	BC	3550B
4,4'-DDE (DDE)	**0.542**	J	1	0.0930	1.00	ug/kg	04/13/23 08:07	04/13/23 14:47	B3D0155	BC	3550B
4,4'-DDT (DDT)	ND		1	0.235	1.00	ug/kg	04/13/23 08:07	04/13/23 14:47	B3D0155	BC	3550B
Dieldrin	ND		1	0.0950	1.00	ug/kg	04/13/23 08:07	04/13/23 14:47	B3D0155	BC	3550B
Endrin	ND		1	0.106	1.00	ug/kg	04/13/23 08:07	04/13/23 14:47	B3D0155	BC	3550B
Endrin aldehyde	ND		1	0.117	1.00	ug/kg	04/13/23 08:07	04/13/23 14:47	B3D0155	BC	3550B
Endrin ketone	ND		1	0.122	1.00	ug/kg	04/13/23 08:07	04/13/23 14:47	B3D0155	BC	3550B
Endosulfan 1	ND		1	0.115	1.00	ug/kg	04/13/23 08:07	04/13/23 14:47	B3D0155	BC	3550B
Endosulfan 11	ND		1	0.177	1.00	ug/kg	04/13/23 08:07	04/13/23 14:47	B3D0155	BC	3550B
Endosulfan sulfate	ND		1	0.0470	1.00	ug/kg	04/13/23 08:07	04/13/23 14:47	B3D0155	BC	3550B
Heptachlor	ND		1	0.206	1.00	ug/kg	04/13/23 08:07	04/13/23 14:47	B3D0155	BC	3550B
Heptachlor epoxide	ND		1	0.101	1.00	ug/kg	04/13/23 08:07	04/13/23 14:47	B3D0155	BC	3550B
Methoxychlor	ND		1	0.310	1.00	ug/kg	04/13/23 08:07	04/13/23 14:47	B3D0155	BC	3550B
Toxaphene	ND		1	4.10	50.0	ug/kg	04/13/23 08:07	04/13/23 14:47	B3D0155	BC	3550B
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*65.6%*				*30-150*		04/13/23 08:07	*04/13/23 14:47*	B3D0155	*BC*	3550B
Surrogate: Tetrachloro-m-xylene	*65.7%*				*30-150*		04/13/23 08:07	*04/13/23 14:47*	B3D0155	*BC*	3550B

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Parsons	AETL Job Number:	BED0024	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 11:07	

Analytical Results

Client ID: **SB-30-D0.5**
Lab ID: **BED0024-22 (Soil)** **Sampled:** **04/06/23 9:39**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method

Organochlorine Pesticides (Continued)

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100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/14/2023 11:07

Quality Control Results

Metals Total (EPA 6010B)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0082 - 3050B					**Prepared: 04/10/2023 07:57**						
Method Blank (B3D0082-BLK1)					**Analyzed: 04/13/2023 18:01**						
Cadmium	ND	1.29	2.48	mg/kg							
Lead	ND	0.550	5.00	mg/kg							
Nickel	ND	2.48	4.95	mg/kg							

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Parsons	AETL Job Number:	BED0024	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 11:07	

Quality Control Results

Metals Total (EPA 6010B)

Analyte	Result		RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0082 - 3050B (Continued)					**Prepared: 04/10/2023 07:57**						
LCS (B3D0082-BS1)					**Analyzed: 04/13/2023 16:30**						
Cadmium	89.9		2.43	mg/kg	97.1		92.6	75-125			
Lead	88.8		5.00	mg/kg	97.1		91.4	75-125			
Nickel	90.5		4.85	mg/kg	97.1		93.3	75-125			
LCSD (B3D0082-BSD1)					**Analyzed: 04/13/2023 16:34**						
Cadmium	92.4		2.50	mg/kg	100		92.4	75-125	2.80	15	
Lead	90.7		5.00	mg/kg	100		90.7	75-125	2.19	15	
Nickel	92.8		5.00	mg/kg	100		92.8	75-125	2.45	15	
Duplicate (B3D0082-DUP1)		**Source: BED0016-57**			**Analyzed: 04/13/2023 16:44**						
Cadmium	ND	1.25	2.40	mg/kg		ND			NA	20	
Lead	1.71	0.550	5.00	mg/kg		0.625			93.0	20	R, J
Nickel	13.2	2.40	4.81	mg/kg		ND			NA	20	
Matrix Spike (B3D0082-MS1)		**Source: BED0016-57**			**Analyzed: 04/13/2023 16:47**						
Cadmium	77.3	1.27	2.45	mg/kg	98.0	ND	78.8	75-125			
Lead	79.0	0.550	5.00	mg/kg	98.0	0.625	79.9	75-125			
Nickel	91.4	2.45	4.90	mg/kg	98.0	ND	93.3	75-125			
Matrix Spike Dup (B3D0082-MSD1)		**Source: BED0016-57**			**Analyzed: 04/13/2023 16:50**						
Cadmium	78.8	1.25	2.40	mg/kg	96.2	ND	82.0	75-125	NA	15	
Lead	76.7	0.550	5.00	mg/kg	96.2	0.625	79.2	75-125	2.86	15	
Nickel	94.5	2.40	4.81	mg/kg	96.2	ND	98.3	75-125	NA	15	

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Telephone (888) 288-AETL • (818) 845-8200 • www.aetlab.com
A KYZER LABS COMPANY

Parsons	AETL Job Number:	BED0024	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/14/2023 11:07

Quality Control Results

Metals Total (EPA 7471A)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0083 - 7471A					**Prepared: 04/07/2023 12:01**						
Method Blank (B3D0083-BLK1)					**Analyzed: 04/10/2023 15:24**						
Mercury	ND	0.0180	0.170	mg/kg							

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100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/14/2023 11:07

Quality Control Results

Metals Total (EPA 7471A)

Analyte	Result		RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0083 - 7471A (Continued)						**Prepared: 04/07/2023 12:01**					
LCS (B3D0083-BS1)						**Analyzed: 04/11/2023 11:36**					
Mercury	0.761		0.170	mg/kg	0.820		92.8	80-120			
LCSD (B3D0083-BSD1)						**Analyzed: 04/11/2023 11:38**					
Mercury	0.789		0.170	mg/kg	0.820		96.2	80-120	3.57	15	
Duplicate (B3D0083-DUP1)		**Source: BED0016-01**				**Analyzed: 04/10/2023 15:32**					
Mercury	0.0210	0.0180	0.170	mg/kg		0.0233			10.6	15	J
Matrix Spike (B3D0083-MS1)		**Source: BED0016-01**				**Analyzed: 04/10/2023 15:34**					
Mercury	0.800	0.0180	0.170	mg/kg	0.820	0.0233	94.7	75-125			
Matrix Spike Dup (B3D0083-MSD1)		**Source: BED0016-01**				**Analyzed: 04/10/2023 15:36**					
Mercury	0.755	0.0180	0.170	mg/kg	0.769	0.0233	95.1	75-125	5.73	15	

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A KYZER LABS COMPANY

Parsons	AETL Job Number:	BED0024	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/14/2023 11:07

Quality Control Results

Polynuclear Aromatic Hydrocarbons (EPA 8270C-SIM)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0135 - 3550B					**Prepared: 04/12/2023 10:43**						
Method Blank (B3D0135-BLK1)					**Analyzed: 04/12/2023 14:22**						
2-Methylnaphthalene	ND	0.00200	0.0125	mg/kg							
Acenaphthene	ND	0.0108	0.0250	mg/kg							
Acenaphthylene	ND	0.00937	0.0250	mg/kg							
Anthracene	ND	0.0112	0.0250	mg/kg							
Benzo(a)anthracene	ND	0.00896	0.0250	mg/kg							
Benzo(a)pyrene	ND	0.0121	0.0250	mg/kg							
Benzo(b)fluoranthene	ND	0.00764	0.0250	mg/kg							
Benzo(g,h,i)perylene	ND	0.0132	0.0250	mg/kg							
Benzo(k)fluoranthene	ND	0.0119	0.0250	mg/kg							
Chrysene	ND	0.00851	0.0250	mg/kg							
Dibenzo(a,h)anthracene	ND	0.0168	0.0250	mg/kg							
Fluoranthene	ND	0.0122	0.0250	mg/kg							
Fluorene	ND	0.0116	0.0250	mg/kg							
Indeno(1,2,3-cd)pyrene	ND	0.0171	0.0250	mg/kg							
Naphthalene	ND	0.00936	0.0250	mg/kg							
Phenanthrene	ND	0.0103	0.0250	mg/kg							
Pyrene	ND	0.00981	0.0250	mg/kg							
Surrogate: p-Terphenyl-D14	*0.0565*			*mg/kg*	*0.100*		*56.5*	*40-130*			

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Parsons	AETL Job Number:	BED0024	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 11:07	

Quality Control Results

Polynuclear Aromatic Hydrocarbons (EPA 8270C-SIM)

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0135 - 3550B (Continued)				**Prepared: 04/12/2023 10:43**						
LCS (B3D0135-BS1)				**Analyzed: 04/12/2023 13:11**						
2-Methylnaphthalene	0.189	0.0125	mg/kg	0.250		75.6	40-150			
Acenaphthene	0.394	0.0250	mg/kg	0.500		78.7	40-150			
Acenaphthylene	0.714	0.0250	mg/kg	1.00		71.4	40-150			
Anthracene	0.0270	0.0250	mg/kg	0.0500		54.0	40-150			
Benzo(a)anthracene	0.0330	0.0250	mg/kg	0.0500		66.0	40-150			
Benzo(a)pyrene	0.0250	0.0250	mg/kg	0.0500		50.0	40-150			
Benzo(b)fluoranthene	0.0355	0.0250	mg/kg	0.100		35.5	40-150			BS
Benzo(g,h,i)perylene	0.0500	0.0250	mg/kg	0.100		50.0	40-150			
Benzo(k)fluoranthene	0.0270	0.0250	mg/kg	0.0500		54.0	40-150			
Chrysene	0.0430	0.0250	mg/kg	0.0500		86.0	40-150			
Dibenzo(a,h)anthracene	0.0515	0.0250	mg/kg	0.100		51.5	40-150			
Fluoranthene	0.0720	0.0250	mg/kg	0.100		72.0	40-150			
Fluorene	0.0760	0.0250	mg/kg	0.100		76.0	40-150			
Indeno(1,2,3-cd)pyrene	0.0205	0.0250	mg/kg	0.0500		41.0	40-150			
Naphthalene	0.361	0.0250	mg/kg	0.500		72.2	40-150			
Phenanthrene	0.0330	0.0250	mg/kg	0.0500		66.0	40-150			
Pyrene	0.0465	0.0250	mg/kg	0.0500		93.0	40-150			
Surrogate: p-Terphenyl-D14	*0.0480*		*mg/kg*	*0.100*		*48.0*	*40-150*			
LCSD (B3D0135-BSD1)				**Analyzed: 04/12/2023 13:46**						
2-Methylnaphthalene	0.190	0.0125	mg/kg	0.250		76.0	40-150	0.528	30	
Acenaphthene	0.403	0.0250	mg/kg	0.500		80.6	40-150	2.39	30	
Acenaphthylene	0.749	0.0250	mg/kg	1.00		74.9	40-150	4.78	30	
Anthracene	0.0335	0.0250	mg/kg	0.0500		67.0	40-150	21.5	30	
Benzo(a)anthracene	0.0315	0.0250	mg/kg	0.0500		63.0	40-150	4.65	30	
Benzo(a)pyrene	0.0250	0.0250	mg/kg	0.0500		50.0	40-150	0.00	30	
Benzo(b)fluoranthene	0.0395	0.0250	mg/kg	0.100		39.5	40-150	10.7	30	BS
Benzo(g,h,i)perylene	0.0490	0.0250	mg/kg	0.100		49.0	40-150	2.02	30	
Benzo(k)fluoranthene	0.0365	0.0250	mg/kg	0.0500		73.0	40-150	29.9	30	
Chrysene	0.0470	0.0250	mg/kg	0.0500		94.0	40-150	8.89	30	
Dibenzo(a,h)anthracene	0.0470	0.0250	mg/kg	0.100		47.0	40-150	9.14	30	
Fluoranthene	0.0720	0.0250	mg/kg	0.100		72.0	40-150	0.00	30	
Fluorene	0.0780	0.0250	mg/kg	0.100		78.0	40-150	2.60	30	
Indeno(1,2,3-cd)pyrene	0.0260	0.0250	mg/kg	0.0500		52.0	40-150	23.7	30	
Naphthalene	0.376	0.0250	mg/kg	0.500		75.3	40-150	4.20	30	
Phenanthrene	0.0330	0.0250	mg/kg	0.0500		66.0	40-150	0.00	30	
Pyrene	0.0470	0.0250	mg/kg	0.0500		94.0	40-150	1.07	30	
Surrogate: p-Terphenyl-D14	*0.0505*		*mg/kg*	*0.100*		*50.5*	*40-150*			

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Parsons	AETL Job Number:	BED0024	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/14/2023 11:07

Quality Control Results

Polynuclear Aromatic Hydrocarbons (EPA 8270C-SIM)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0135 - 3550B (Continued)					**Prepared: 04/12/2023 10:43**						
Matrix Spike (B3D0135-MS1)		**Source: BED0016-01**			**Analyzed: 04/12/2023 19:01**						
2-Methylnaphthalene	0.276	0.00200	0.0125	mg/kg	0.250	ND	110	40-150			
Acenaphthene	0.567	0.0108	0.0250	mg/kg	0.500	ND	113	40-150			
Acenaphthylene	1.06	0.00937	0.0250	mg/kg	1.00	ND	106	40-150			
Anthracene	0.0410	0.0112	0.0250	mg/kg	0.0500	ND	82.0	40-150			
Benzo(a)anthracene	0.0470	0.00896	0.0250	mg/kg	0.0500	ND	94.0	40-150			
Benzo(a)pyrene	0.0325	0.0121	0.0250	mg/kg	0.0500	ND	65.0	40-150			
Benzo(b)fluoranthene	0.0700	0.00764	0.0250	mg/kg	0.100	ND	70.0	40-150			
Benzo(g,h,i)perylene	0.0775	0.0132	0.0250	mg/kg	0.100	ND	77.5	40-150			
Benzo(k)fluoranthene	0.0480	0.0119	0.0250	mg/kg	0.0500	ND	96.0	40-150			
Chrysene	0.0620	0.00851	0.0250	mg/kg	0.0500	ND	124	40-150			
Dibenzo(a,h)anthracene	0.0590	0.0168	0.0250	mg/kg	0.100	ND	59.0	40-150			
Fluoranthene	0.106	0.0121	0.0250	mg/kg	0.100	ND	106	40-150			
Fluorene	0.111	0.0115	0.0250	mg/kg	0.100	ND	112	40-150			
Indeno(1,2,3-cd)pyrene	0.0385	0.0171	0.0250	mg/kg	0.0500	ND	77.0	40-150			
Naphthalene	0.513	0.00936	0.0250	mg/kg	0.500	ND	103	40-150			
Phenanthrene	0.0460	0.0103	0.0250	mg/kg	0.0500	ND	92.0	40-150			
Pyrene	0.0625	0.00981	0.0250	mg/kg	0.0500	ND	125	40-150			
Surrogate: p-Terphenyl-D14	*0.0490*			*mg/kg*	*0.100*		*49.0*	*40-150*			
Matrix Spike Dup (B3D0135-MSD1)		**Source: BED0016-01**			**Analyzed: 04/12/2023 19:36**						
2-Methylnaphthalene	0.260	0.00200	0.0125	mg/kg	0.250	ND	104	40-150	NA	30	
Acenaphthene	0.534	0.0108	0.0250	mg/kg	0.499	ND	107	40-150	NA	30	
Acenaphthylene	0.987	0.00936	0.0250	mg/kg	0.999	ND	98.9	40-150	NA	30	
Anthracene	0.0374	0.0112	0.0250	mg/kg	0.0499	ND	75.0	40-150	NA	30	
Benzo(a)anthracene	0.0479	0.00895	0.0250	mg/kg	0.0499	ND	96.0	40-150	NA	30	
Benzo(a)pyrene	0.0339	0.0121	0.0250	mg/kg	0.0499	ND	68.0	40-150	NA	30	
Benzo(b)fluoranthene	0.0729	0.00763	0.0250	mg/kg	0.0999	ND	73.0	40-150	NA	30	
Benzo(g,h,i)perylene	0.0759	0.0132	0.0250	mg/kg	0.0999	ND	76.0	40-150	NA	30	
Benzo(k)fluoranthene	0.0434	0.0119	0.0250	mg/kg	0.0499	ND	87.0	40-150	NA	30	
Chrysene	0.0589	0.00850	0.0250	mg/kg	0.0499	ND	118	40-150	NA	30	
Dibenzo(a,h)anthracene	0.0549	0.0168	0.0250	mg/kg	0.0999	ND	55.0	40-150	NA	30	
Fluoranthene	0.101	0.0121	0.0250	mg/kg	0.0999	ND	102	40-150	NA	30	
Fluorene	0.105	0.0115	0.0250	mg/kg	0.0999	ND	105	40-150	NA	30	
Indeno(1,2,3-cd)pyrene	0.0359	0.0170	0.0250	mg/kg	0.0499	ND	72.0	40-150	NA	30	
Naphthalene	0.480	0.00935	0.0250	mg/kg	0.499	ND	96.1	40-150	NA	30	
Phenanthrene	0.0454	0.0103	0.0250	mg/kg	0.0499	ND	91.0	40-150	NA	30	
Pyrene	0.0604	0.00980	0.0250	mg/kg	0.0499	ND	121	40-150	NA	30	
Surrogate: p-Terphenyl-D14	*0.0469*			*mg/kg*	*0.0999*		*47.0*	*40-150*			

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Parsons	AETL Job Number:	BED0024	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/14/2023 11:07

Quality Control Results

Organochlorine Pesticides (EPA 8081A)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0155 - 3550B					**Prepared: 04/13/2023 08:07**						
Method Blank (B3D0155-BLK1)					**Analyzed: 04/13/2023 10:29**						
Aldrin	ND	0.0900	1.00	ug/kg							
alpha-Chlordane	ND	0.121	1.00	ug/kg							
gamma-Chlordane	ND	0.114	1.00	ug/kg							
Chlordane (Total)	ND	1.00	2.00	ug/kg							
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	ND	0.0620	1.00	ug/kg							
alpha-Hexachlorocyclohexane (Alpha-BHC)	ND	0.0710	1.00	ug/kg							
beta-Hexachlorocyclohexane (Betta-BHC)	ND	0.217	1.00	ug/kg							
delta-Hexachlorocyclohexane (Delta-BHC)	ND	0.0880	1.00	ug/kg							
4,4'-DDD (DDD)	ND	0.0980	1.00	ug/kg							
4,4'-DDE (DDE)	ND	0.0930	1.00	ug/kg							
4,4'-DDT (DDT)	ND	0.235	1.00	ug/kg							
Dieldrin	ND	0.0950	1.00	ug/kg							
Endrin	ND	0.106	1.00	ug/kg							
Endrin aldehyde	ND	0.117	1.00	ug/kg							
Endrin ketone	ND	0.122	1.00	ug/kg							
Endosulfan 1	ND	0.115	1.00	ug/kg							
Endosulfan 11	ND	0.177	1.00	ug/kg							
Endosulfan sulfate	ND	0.0470	1.00	ug/kg							
Heptachlor	ND	0.206	1.00	ug/kg							
Heptachlor epoxide	ND	0.101	1.00	ug/kg							
Methoxychlor	ND	0.310	1.00	ug/kg							
Toxaphene	ND	4.10	50.0	ug/kg							
Surrogate: Decachlorobiphenyl	*27.5*			*ug/kg*	*25.0*		*110*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*19.1*			*ug/kg*	*25.0*		*76.5*	*30-150*			

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100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 11:07	

Quality Control Results

Organochlorine Pesticides (EPA 8081A)

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0155 - 3550B (Continued)				**Prepared: 04/13/2023 08:07**						
LCS (B3D0155-BS1)				**Analyzed: 04/13/2023 09:21**						
Aldrin	22.5	1.00	ug/kg	25.0		89.9	50-150			
alpha-Chlordane	28.9	1.00	ug/kg	25.0		116	50-150			
gamma-Chlordane	31.3	1.00	ug/kg	25.0		125	50-150			
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	25.8	1.00	ug/kg	25.0		103	50-150			
alpha-Hexachlorocyclohexane (Alpha-BHC)	24.4	1.00	ug/kg	25.0		97.8	50-150			
beta-Hexachlorocyclohexane (Betta-BHC)	30.4	1.00	ug/kg	25.0		122	50-150			
delta-Hexachlorocyclohexane (Delta-BHC)	31.8	1.00	ug/kg	25.0		127	50-150			
4,4'-DDD (DDD)	35.2	1.00	ug/kg	25.0		141	50-150			
4,4'-DDE (DDE)	32.4	1.00	ug/kg	25.0		130	50-150			
4,4'-DDT (DDT)	37.1	1.00	ug/kg	25.0		149	50-150			
Dieldrin	27.5	1.00	ug/kg	25.0		110	50-150			
Endrin	27.0	1.00	ug/kg	25.0		108	50-150			
Endrin aldehyde	27.1	1.00	ug/kg	25.0		109	50-150			
Endrin ketone	35.3	1.00	ug/kg	25.0		141	50-150			
Endosulfan 1	26.8	1.00	ug/kg	25.0		107	50-150			
Endosulfan 11	29.1	1.00	ug/kg	25.0		116	50-150			
Endosulfan sulfate	33.2	1.00	ug/kg	25.0		133	50-150			
Heptachlor	30.2	1.00	ug/kg	25.0		121	50-150			
Heptachlor epoxide	27.9	1.00	ug/kg	25.0		112	50-150			
Methoxychlor	34.8	1.00	ug/kg	25.0		139	50-150			
Surrogate: Decachlorobiphenyl	*32.5*		*ug/kg*	*25.0*		*130*	*50-150*			
Surrogate: Tetrachloro-m-xylene	*13.2*		*ug/kg*	*25.0*		*52.7*	*50-150*			
LCS (B3D0155-BS2)				**Analyzed: 04/13/2023 11:38**						
Toxaphene	582	50.0	ug/kg	500		116	50-150			
Surrogate: Decachlorobiphenyl	*28.6*		*ug/kg*	*25.0*		*114*	*50-150*			
Surrogate: Tetrachloro-m-xylene	*36.8*		*ug/kg*	*25.0*		*147*	*50-150*			

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Parsons	AETL Job Number:	BED0024	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 11:07	

Quality Control Results

Organochlorine Pesticides (EPA 8081A)

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0155 - 3550B (Continued)				**Prepared: 04/13/2023 08:07**						
LCSD (B3D0155-BSD1)				**Analyzed: 04/13/2023 09:38**						
Aldrin	16.7	1.00	ug/kg	25.0		66.9	50-150	29.4	40	
alpha-Chlordane	23.1	1.00	ug/kg	25.0		92.4	50-150	22.4	40	
gamma-Chlordane	25.7	1.00	ug/kg	25.0		103	50-150	19.7	40	
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	19.3	1.00	ug/kg	25.0		77.0	50-150	29.1	40	
alpha-Hexachlorocyclohexane (Alpha-BHC)	16.7	1.00	ug/kg	25.0		66.7	50-150	37.8	40	
beta-Hexachlorocyclohexane (Betta-BHC)	22.2	1.00	ug/kg	25.0		88.9	50-150	31.1	40	
delta-Hexachlorocyclohexane (Delta-BHC)	24.5	1.00	ug/kg	25.0		98.0	50-150	25.9	40	
4,4'-DDD (DDD)	27.6	1.00	ug/kg	25.0		111	50-150	24.0	40	
4,4'-DDE (DDE)	27.0	1.00	ug/kg	25.0		108	50-150	18.2	40	
4,4'-DDT (DDT)	28.5	1.00	ug/kg	25.0		114	50-150	26.4	40	
Dieldrin	24.7	1.00	ug/kg	25.0		98.7	50-150	10.9	40	
Endrin	20.0	1.00	ug/kg	25.0		80.1	50-150	29.6	40	
Endrin aldehyde	21.6	1.00	ug/kg	25.0		86.3	50-150	22.9	40	
Endrin ketone	28.7	1.00	ug/kg	25.0		115	50-150	20.8	40	
Endosulfan 1	22.0	1.00	ug/kg	25.0		88.1	50-150	19.6	40	
Endosulfan 11	23.3	1.00	ug/kg	25.0		93.4	50-150	22.0	40	
Endosulfan sulfate	26.4	1.00	ug/kg	25.0		106	50-150	22.8	40	
Heptachlor	23.0	1.00	ug/kg	25.0		92.1	50-150	27.1	40	
Heptachlor epoxide	22.7	1.00	ug/kg	25.0		90.7	50-150	20.9	40	
Methoxychlor	27.9	1.00	ug/kg	25.0		111	50-150	22.3	40	
Surrogate: Decachlorobiphenyl	*24.5*		*ug/kg*	*25.0*		*97.8*	*50-150*			
Surrogate: Tetrachloro-m-xylene	*11.9*		*ug/kg*	*25.0*		*47.6*	*50-150*			*S6*
LCSD (B3D0155-BSD2)				**Analyzed: 04/13/2023 10:12**						
Toxaphene	514	50.0	ug/kg	500		103	50-150	12.5	40	
Surrogate: Decachlorobiphenyl	*29.8*		*ug/kg*	*25.0*		*119*	*50-150*			
Surrogate: Tetrachloro-m-xylene	*36.8*		*ug/kg*	*25.0*		*147*	*50-150*			

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AMERICAN ENVIRONMENTAL TESTING LABORATORY, LLC
2840 North Naomi Street, Burbank, CA 91504 • ELAP# 1541 • LACSD# 10181
Telephone (888) 288-AETL • (818) 845-8200 • www.aetlab.com
A KYZER LABS COMPANY

Parsons	AETL Job Number:	BED0024	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/14/2023 11:07

Quality Control Results

PCBs (EPA 8082)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0140 - 3550B					**Prepared: 04/12/2023 11:05**						
Method Blank (B3D0140-BLK1)					**Analyzed: 04/12/2023 14:57**						
Aroclor-1016 (PCB-1016)	ND	11.6	25.0	ug/kg							
Aroclor-1221 (PCB-1221)	ND	8.11	25.0	ug/kg							
Aroclor-1232 (PCB-1232)	ND	15.2	25.0	ug/kg							
Aroclor-1242 (PCB-1242)	ND	5.25	25.0	ug/kg							
Aroclor-1248 (PCB-1248)	ND	11.0	25.0	ug/kg							
Aroclor-1254 (PCB-1254)	ND	11.9	25.0	ug/kg							
Aroclor-1260 (PCB-1260)	ND	6.02	25.0	ug/kg							
Aroclor-1262 (PCB-1262)	ND	20.0	50.0	ug/kg							
Aroclor-1268 (PCB-1268)	ND	20.0	50.0	ug/kg							
Surrogate: Decachlorobiphenyl	*31.0*			*ug/kg*	*25.0*		*124*	*50-150*			
Surrogate: Tetrachloro-m-xylene	*9.83*			*ug/kg*	*25.0*		*39.3*	*50-150*			*S6*

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Parsons	AETL Job Number:	BED0024	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/14/2023 11:07	

Quality Control Results

PCBs (EPA 8082)

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0140 - 3550B (Continued)				**Prepared: 04/12/2023 11:05**						
LCS (B3D0140-BS1)				**Analyzed: 04/12/2023 14:18**						
Aroclor-1016 (PCB-1016)	280	25.0	ug/kg	250		112	40.3-151			
Aroclor-1260 (PCB-1260)	303	25.0	ug/kg	250		121	39.4-151			
Surrogate: Decachlorobiphenyl	*32.6*		*ug/kg*	*25.0*		*131*	*50-150*			
Surrogate: Tetrachloro-m-xylene	*25.8*		*ug/kg*	*25.0*		*103*	*50-150*			
LCSD (B3D0140-BSD1)				**Analyzed: 04/12/2023 14:38**						
Aroclor-1016 (PCB-1016)	251	25.0	ug/kg	250		100	40.3-151	10.7	30	
Aroclor-1260 (PCB-1260)	295	25.0	ug/kg	250		118	39.4-151	2.76	30	
Surrogate: Decachlorobiphenyl	*31.5*		*ug/kg*	*25.0*		*126*	*50-150*			
Surrogate: Tetrachloro-m-xylene	*26.3*		*ug/kg*	*25.0*		*105*	*50-150*			
Matrix Spike (B3D0140-MS1)	**Source: BED0016-01**			**Analyzed: 04/12/2023 21:21**						
Aroclor-1016 (PCB-1016)	153	11.6	25.0 ug/kg	250	ND	61.3	40.3-151			
Aroclor-1260 (PCB-1260)	207	6.02	25.0 ug/kg	250	ND	82.7	39.4-151			
Surrogate: Decachlorobiphenyl	*24.2*		*ug/kg*	*25.0*		*96.8*	*50-150*			
Surrogate: Tetrachloro-m-xylene	*21.6*		*ug/kg*	*25.0*		*86.3*	*50-150*			
Matrix Spike Dup (B3D0140-MSD1)	**Source: BED0016-01**			**Analyzed: 04/12/2023 21:40**						
Aroclor-1016 (PCB-1016)	146	11.6	25.0 ug/kg	250	ND	58.5	40.3-151	NA	30	
Aroclor-1260 (PCB-1260)	244	6.02	25.0 ug/kg	250	ND	97.7	39.4-151	NA	30	
Surrogate: Decachlorobiphenyl	*21.7*		*ug/kg*	*25.0*		*86.6*	*50-150*			
Surrogate: Tetrachloro-m-xylene	*0.286*		*ug/kg*	*25.0*		*1.14*	*50-150*			*S6*

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Parsons	AETL Job Number:	BED0024	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/14/2023 11:07

Qualifiers and Definitions

Item	Qualifiers
BS	The recovery of this analyte in LCS and/or LCSD was outside control limit. Sample was accepted based on the remaining LCSand/or LCSD.
D	Sample was analyzed under dilution due to matrix interference.
DIL	Result for the compound reported from diluted analysis.
J	Analyte was detected. However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Reporting Limit (RL).
R	The RPD was outside of QC acceptance limits due to possible matrix interference.
S6	Surrogate recovery is outside control limits due to matrix interference.

Item	Definitions
% wt	Percent Weight
%REC	Percent Recovery
°F	Degrees Fahrenheit
AETL	American Environmental Testing Laboratory, LLC
C	Carbon
CARB	California Air Resources Board
COC	Chain of Custody
Cresols	3-methylphenol/4-methylphenol coelute and cannot be chromatographically separated. Due to this coeluting isomer pair phenomenon, the laboratory uses a single cresol (4-methylphenol) as calibration standard for 3-methylphenol/4-methylphenol.
CRM	Certified Reference Material
DPD	Department of Planning and Development
DRO	Diesel Range Organics
Dup	Duplicate
ELAP	Environmental Laboratory Accreditation Program
EPA	Environmental Protection Agency
GC/FID	Gas Chromatography Flame Ionization Detection
GRO	Gasoline Range Organics
HC	Hydrocarbon
HEM	Hexane Extractable Material
HMU	Hazardous Material Unit
ICP/MS	Inductively Coupled Plasma Mass Spectrometry
LACSD	Los Angeles County Sanitation Districts
LCS	Laboratory Control Sample - A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes.
LCSD	Laboratory Control Sample Duplicate - A replicate of Laboratory Control Sample.
LOQ	Limit of Quantitation
MDL	Method Detection Limit - The minimum measured concentration of a substance that can be reported with 99% confidence. MDL is statistically derived number which is specific for each instrument, each method and each compound.

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Parsons	AETL Job Number:	BED0024	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/14/2023 11:07

mg/kg	Miligrams per Kilogram
mg/L	Miligrams per Liter
ml/L/hr	Milliliter per Liter per Hour
MRO	Motor oil Range Organics
MS	Matrix Spike - A sample prepared, taken through all sample preparation and analytical steps of the procedure and analyzed as an independent test results.
MSD	Matrix Spike Duplicate - A replicate of Matrix Spike Sample.
N	No
ND	Analyte is not detected below Method Detection Limit.
ng/m3	Nanograms per cubic meter
NIOSH	National Institute for Occupational Safety and Health
nL/L	Nanoliters per Liter
NTU	Nephelometric Turbidity Units
Ohm-cm	Ohms per centimeter
ORO	Oil Range Organics
OSHA	Occupational Safety and Health Administration
PCB	Polychlorinated Biphenyl
PSU	Practical Salinity Unit
RL	Reporting Limit - The lowest concentration at which an analyte can be detected in a sample and its concentration can be reported with a specified degree of confidence, accuracy and precision. For usage at AETL, RL is equivalant to LOQ.
RPD	Relative Percent Difference
SIM	Selective Ion Monitoring
SM	Standard Method
SPLP	Synthetic Precipitation Leaching Procedure
STLC	Soluble Threshold Limit Concentration
TCLP	Toxicity Characteristic Leaching Procedure
TPH	Total Petroleum Hydrocarbons
TTLC	Total Threshold Limit Concentrations
ug/kg	Micrograms per Kilogram
ug/L	Micrograms per Liter
ug/m3	Micrograms per cubic meter
WET	Waste Extraction Test
Y	Yes
ZHE	Zero Headspace Extraction

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AIH LABORATORY
2556 W Woodland Dr Anaheim, CA 92801

BULK ASBESTOS FIBER ANALYSIS

BY POLARIZED LIGHT MICROSCOPY

NVLAP TESTING
NVLAP LAB CODE 500079-0
Phone:(562) 860-2201
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Client Name: American Environmental Testing Laboratory
Project Manager: Joe Sevrean
Client Address: 2840 North Naomi Street Burbank, CA 91504
Project Number: BED0024/ SMPL-35273
Project Location: No Information Provided

Lab Batch Number: 2307769
Samples Submitted: 2
Samples Analyzed: 2
Analysis Method: EPA 600/R-93-116 & EPA 600/M4-82-020

Lab ID: 230776901 **Client ID:** BED0024-16

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Brown soil sandy material	**None Detected**	Cellulose 2%	Binder/Filler, Mineral Grains

Lab ID: 230776902 **Client ID:** BED0024-19

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Brown soil sandy material	**None Detected**	Cellulose 2%	Binder/Filler, Mineral Grains

Analyzed by: Dang Nguyen **Signature:** **Date:** 04-10-2023

Reviewed by: Zubair Ahmed **Signature:** **Date:** 04-10-2023

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Orange Coast Analytical, Inc.
3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067
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LABORATORY REPORT FORM

ORANGE COAST ANALYTICAL, INC.

3002 Dow Suite 532 Tustin, CA 92780

(714) 832-0064

Laboratory Certification (ELAP) No.:2576
Expiration Date: 2023
Los Angeles County Sanitation District Lab ID# 10206

Laboratory Director's Name:
Mark Noorani

Client:	American Environmental Testing Laboratory
Laboratory Reference:	AETL 27834
Project Name:	BED0024
Project Number:	BED0024
Date Received:	4/7/2023
Date Reported:	4/12/2023
Chain of Custody Received:	☑
Analytical Method:	6020,

Mark Noorani, Laboratory Director

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Rev1.0

Ms. Hailley Coleman
American Environmental Testing Laboratory
2840 Naomi St
Burbank, CA, 91504

Lab Reference #: AETL 27834
Project Name: BED0024
Project #: BED0024

Case Narrative

Sample Receipt:

All samples on the Chain of Custody were received by OCA at 1ºC, on ice.

Holding Times:

All samples were analyzed within required holding times unless otherwise noted in the data qualifier section of the report.

Analytical Methods:

Sample analysis was performed following the analytical methods listed on the cover page.

Data Qualifiers:

Within this report, data qualifiers may have been assigned to clarify deviations in common laboratory procedures or any divergence from laboratory QA/QC criteria. If a data qualifier has been used, it will appear in the back of the report along with its description. All method QA/QC criteria have been met unless otherwise noted in the data qualifier section.

Definition of Terms:

The definitions of common terms and acronyms used in the report have been placed at the back of the report to assist data users.

Comments:

None

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Ms. Hailley Coleman
American Environmental Testing Laboratory
2840 Naomi St
Burbank, CA, 91504

Lab Reference #: AETL 27834
Project Name: BED0024
Project #: BED0024

Client Sample Summary

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0024-01	27834-001	4/7/2023	4/6/2023	Soil
BED0024-04	27834-002	4/7/2023	4/6/2023	Soil
BED0024-07	27834-003	4/7/2023	4/6/2023	Soil
BED0024-10	27834-004	4/7/2023	4/6/2023	Soil
BED0024-13	27834-005	4/7/2023	4/6/2023	Soil
BED0024-16	27834-006	4/7/2023	4/6/2023	Soil
BED0024-19	27834-007	4/7/2023	4/6/2023	Soil
BED0024-22	27834-008	4/7/2023	4/6/2023	Soil

Ms. Hailley Coleman
American Environmental Testing Laboratory
2840 Naomi St
Burbank, CA, 91504

Lab Reference #: AETL 27834
Project Name: BED0024
Project #: BED0024

Metals

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0024-01	27834-001	4/7/2023 10:50	4/6/2023 7:09	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	6.3	mg/kg	04/11/23 09:00	04/12/23 09:42	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0024-04	27834-002	4/7/2023 10:50	4/6/2023 7:26	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	11	mg/kg	04/11/23 09:00	04/12/23 09:45	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0024-07	27834-003	4/7/2023 10:50	4/6/2023 8:09	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	4.7	mg/kg	04/11/23 09:00	04/12/23 09:54	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0024-10	27834-004	4/7/2023 10:50	4/6/2023 9:07	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	6.7	mg/kg	04/11/23 09:00	04/12/23 09:57	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0024-13	27834-005	4/7/2023 10:50	4/6/2023 9:22	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	4.0	mg/kg	04/11/23 09:00	04/12/23 10:01	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0024-16	27834-006	4/7/2023 10:50	4/6/2023 8:47	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	5.6	mg/kg	04/11/23 09:00	04/12/23 10:04	--	1

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Ms. Hailley Coleman
American Environmental Testing Laboratory
2840 Naomi St
Burbank, CA, 91504

Lab Reference #: AETL 27834
Project Name: BED0024
Project #: BED0024

Metals

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0024-19	27834-007	4/7/2023 10:50	4/6/2023 8:27	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	45	mg/kg	04/11/23 09:00	04/12/23 10:07	--	1

BED0024-22	27834-008	4/7/2023 10:50	4/6/2023 9:39	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	5.3	mg/kg	04/11/23 09:00	04/12/23 10:10	--	1

Method Blank						Soil	
MB ID	ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
MBKL0411232	Arsenic	6020	<1.0	mg/kg	04/11/23 09:00	04/12/23 09:17	--	1

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QA/QC Report
for
Metals

Reference #: AETL 27834 Reporting units: ppm

Matrix Spike (MS) / Matrix Spike Duplicate (MSD) **6020**

Laboratory Sample #: 27831-021 **Date of Extraction:** 04/11/23 09:00

Analyte	MS Date of Analysis	MSD Date of Analysis	R1	SPC CONC	MS	MSD	% MS	% MSD	RPD	ACP %MS	ACP RPD	Qualifiers
Arsenic	04/12/23 09:30	04/12/23 09:33	1.80	20.0	22.7	22.1	105	102	3	75-125	20	--

Laboratory Control Spike (LCS) / Laboratory Control Spike Duplicate (LCSD) **6020**

Laboratory Sample #: KL0411232 **Date of Extraction:** 04/11/23 09:00

Analyte	LCS Date of Analysis	LCSD Date of Analysis		SPC CONC	LCS	LCSD	% LCS	% LCSD	RPD	ACP %LCS	ACP RPD	Qualifiers
Arsenic	04/12/23 09:20	04/12/23 09:24	--	20.0	21.7	21.9	109	109	1	80-120	20	--

Definition of terms:

R	Result of unspiked laboratory sample used for matrix spike determination.
SP CONC (or Spike Conc.)	Spike concentration added to sample or blank
MS	Matrix Spike sample result
MSD	Matrix Spike Duplicate sample result
%MS	Percent recovery of MS: {(MS-R1) / SP CONC} x100
%MSD	Percent recovery of MSD: {(MSD-R1) / SP CONC} x 100
RPD (for MS/MSD)	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2
LCS	Laboratory Control Sample result
LCSD	Laboratory Control Sample Duplicate result
%LCS	Percent recovery of LCS: {(LCS) / SP CONC} x100
%LCSD	Percent recovery of LCSD: {(LCSD) / SP CONC} x 100
RPD (for LCS/LCSD)	Relative Percent Difference: {(LCS-LCSD) / (LCS+LCSD)} x 100 x 2
ACP %LCS	Acceptable percent recovery range for Laboratory Control Samples.
ACP %MS	Acceptable percent recovery range for Matrix Spike samples
ACP RPD	Acceptable Relative Percent Difference
D	Detectable, result must be greater than zero
Qual	A checked box indicates a data qualifier was utilized and/or required for this analyte see attached explanation.
ND	Analyte Not Detected

278834

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SUBCONTRACT CHAIN of CUSTODY

Sending Laboratory:

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AETL, LLC. 2840 N. Naomi Street
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Phone: 818-845-8200
Project Manager: Hailley Coleman
Email: hcoleman@aetlab.com

Subcontracted Laboratory:

Orange Coast Analytical. Inc.
3002 Dow Ave., Ste. 532
Tustin, CA 92780
Phone: (714) 832-0064
Fax:

Work Order: BED0024 PO #SUB-35271

	Analysis	Due	Expires	Comments
1	**Sample ID: BED0024-01** ***Soil*** ***Sampled: 04/06/2023 07:09***			4-DAY TAT
	6020-As (Arsenic, total by ICP/MS)	04/13/2023	10/03/2023 07:09	
	Containers Supplied:			
2	**Sample ID: BED0024-04** ***Soil*** ***Sampled: 04/06/2023 07:26***			
	6020-As (Arsenic, total by ICP/MS)	04/13/2023	10/03/2023 07:26	
	Containers Supplied:			
3	**Sample ID: BED0024-07** ***Soil*** ***Sampled: 04/06/2023 08:09***			
	6020-As (Arsenic, total by ICP/MS)	04/13/2023	10/03/2023 08:09	
	Containers Supplied:			
4	**Sample ID: BED0024-10** ***Soil*** ***Sampled: 04/06/2023 09:07***			
	6020-As (Arsenic, total by ICP/MS)	04/13/2023	10/03/2023 09:07	
	Containers Supplied:			
5	**Sample ID: BED0024-13** ***Soil*** ***Sampled: 04/06/2023 09:22***			
	6020-As (Arsenic, total by ICP/MS)	04/13/2023	10/03/2023 09:22	

Approved by: HAILLEY COLEMAN — 4/6/23
AETL Project Manager — Date

Released By AETL Sample Control	Date 1050	Received By Courier	Date
Released By Courier	Date 4-7-23	Received By Subcontract Laboratory OCACA	Date 4/7/23 1105

on ice @ 1°C IR#

27834

AMERICAN ENVIRONMENTAL TESTING LABORATORY, LLC
2840 North Naomi Street, Burbank, CA 91504 • ELAP# 1541 • LACSD# 10181
Telephone (888) 288-AETL • (818) 845-8200 • www.aetlab.com

SUBCONTRACT CHAIN of CUSTODY
(Continued)

Work Order: BED0024 (Continued)

Analysis	Due	Expires	Comments
Containers Supplied:			
Sample ID: BED0024-16 ***Soil*** ***Sampled: 04/06/2023 08:47***			
6020-As (Arsenic, total by ICP/MS)	04/13/2023	10/03/2023 08:47	
Containers Supplied:			
Sample ID: BED0024-19 ***Soil*** ***Sampled: 04/06/2023 08:27***			
6020-As (Arsenic, total by ICP/MS)	04/13/2023	10/03/2023 08:27	
Containers Supplied:			
Sample ID: BED0024-22 ***Soil*** ***Sampled: 04/06/2023 09:39***			
6020-As (Arsenic, total by ICP/MS)	04/13/2023	10/03/2023 09:39	
Containers Supplied:			

Approved by: _____ Date _____
AETL Project Manager

Released By AETL Sample Control	Date	Received By Courier	Date
	1050		
Released By Courier	4-7-23 Date	Received By Subcontract Laboratory	4/7/23 10 Date

Sample Receipt Report

Laboratory Reference: AETL 27834 Logged in by: MM

Received:	04/07/23 10:50	Company Name:	American Environmental Testing Labo
Method of Shipment:	Hand Delivered	Project Manager:	Ms. Hailley Coleman
Shipping Container:	Cooler	Project Name:	BED0024
# Shipping Containers:	1	Project #:	BED0024

Sample Quantity
8 Soil

Chain of Custody		Complete ☑	Incomplete ☐	None ☐
Samples On Ice		Yes, Wet ☑	Yes, Blue ☐	No ☐
Observed Temp. (°C):	1	Thermometer ID: IR#3	Adjusted Temp.:	1+(-0)=1
Shipping Intact		Yes ☐	N/A ☑	No ☐
Shipping Custody Seals Intact		Yes ☐	N/A ☑	No ☐
Samples Intact		Yes ☑		No ☐
Sample Custody Seals Intact		Yes ☐	N/A ☑	No ☐
Custody Seals Signed & Dated		Yes ☐	N/A ☑	No ☐
Proper Test Containers		Yes ☑		No ☐
Proper Test Preservations		Yes ☑		No ☐
Samples Within Hold Times		Yes ☑		No ☐
VOAs Have Zero Headspace		Yes ☐	N/A ☑	No ☐
Sample Labels		Complete ☑	Incomplete ☐	None ☐
Sample Information Matches COC		Yes ☑	N/A ☐	No ☐

Notes

Client Notified _____ By _____ On _____

April 12, 2023

Hailley Coleman
American Environmental Testing Laboratory, Inc.
2834 N. Naomi Street
Burbank, CA 91504

TEL: (818) 845-8200
FAX:

Workorder No.: N055881

RE: BED0024

Attention: Hailley Coleman

Enclosed are the results for sample(s) received on April 07, 2023 by ASSET Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562) 219-7435 if I can be of further assistance to your company.

Sincerely,



Ferdinand Paul Lugtu
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and ASSET Laboratories - California.

CLIENT: American Environmental Testing Laborator
Project: BED0024
Lab Order: N055881

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

All sample containers were received intact with proper chain of custody documentation.

Information on sample receipt conditions including discrepancies can be found in attached Sample Receipt Checklist Form.

Cooler temperature and sample preservation were verified upon receipt of samples if applicable.

Samples were analyzed within method holding time.

CLIENT: American Environmental Testing Laborator
Project: BED0024
Lab Order: N055881
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N055881-001A	BED0024-16	Soil	4/6/2023 8:47:00 AM	4/7/2023	4/12/2023
N055881-002A	BED0024-19	Soil	4/6/2023 8:27:00 AM	4/7/2023	4/12/2023

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BED0024-16
Lab Order:	N055881		
Project:	BED0024	**Collection Date:**	4/6/2023 8:47:00 AM
Lab ID:	N055881-001	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC						
EPA 3060A				**EPA 7199**		
RunID: CA01638-IC01_230411A	QC Batch: 99076			PrepDate:	4/10/2023	Analyst: **CR**
Hexavalent Chromium	ND	0.20		mg/Kg	1	4/11/2023 08:48 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BED0024-19
Lab Order:	N055881		
Project:	BED0024	**Collection Date:**	4/6/2023 8:27:00 AM
Lab ID:	N055881-002	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC						
EPA 3060A				**EPA 7199**		
RunID: CA01638-IC01_230411A	QC Batch: 99076			PrepDate:	4/10/2023	Analyst: **CR**
Hexavalent Chromium	ND	0.20		mg/Kg	1	4/11/2023 09:11 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: American Environmental Testing Laboratory, Inc.
Work Order: N055881
Project: BED0024

ANALYTICAL QC SUMMARY REPORT

TestCode: CA_7199_S

Sample ID: **LCS-99076**	SampType: **LCS**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/10/2023**	RunNo: **171275**
Client ID: **LCSS**	Batch ID: **99076**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/11/2023**	SeqNo: **5147060**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	3.978	0.20	4.000	0	99.4	80	120				

Sample ID: **MB-99076**	SampType: **MBLK**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/10/2023**	RunNo: **171275**
Client ID: **PBS**	Batch ID: **99076**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/11/2023**	SeqNo: **5147061**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20									

Sample ID: **N055842-001A-REP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/10/2023**	RunNo: **171275**
Client ID: **ZZZZZZ**	Batch ID: **99076**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/11/2023**	SeqNo: **5147063**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20						0	0	20	

Sample ID: **N055842-001A-DUP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/10/2023**	RunNo: **171275**
Client ID: **ZZZZZZ**	Batch ID: **99076**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/11/2023**	SeqNo: **5147064**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20						0	0	20	

Sample ID: **N055842-001A-PS**	SampType: **MS**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date:	RunNo: **171275**
Client ID: **ZZZZZZ**	Batch ID: **99076**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/11/2023**	SeqNo: **5147065**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.007	0.20	3.993	0	100	75	125				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

ANALYTICAL QC SUMMARY REPORT

TestCode: CA_7199_S

Sample ID: **N055842-001A-MS**	SampType: **MS**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/10/2023**	RunNo: **171275**
Client ID: **ZZZZZZ**	Batch ID: **99076**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/11/2023**	SeqNo: **5147066**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	3.983	0.20	3.998	0	99.6	75	125				

Sample ID: **N055842-001A-MSD**	SampType: **MSD**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/10/2023**	RunNo: **171275**
Client ID: **ZZZZZZ**	Batch ID: **99076**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/11/2023**	SeqNo: **5147067**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.063	0.20	3.993	0	102	75	125	3.983	2.00	20	

Sample ID: **N055842-001A-MS-I**	SampType: **MS**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/10/2023**	RunNo: **171275**
Client ID: **ZZZZZZ**	Batch ID: **99076**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/11/2023**	SeqNo: **5147069**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	511.624	10	649.1	0	78.8	75	125				

Sample ID: **N055842-002A-REP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/10/2023**	RunNo: **171275**
Client ID: **ZZZZZZ**	Batch ID: **99076**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/11/2023**	SeqNo: **5147073**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20						0	0	20	

Sample ID: **N055842-003A-REP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/10/2023**	RunNo: **171275**
Client ID: **ZZZZZZ**	Batch ID: **99076**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/11/2023**	SeqNo: **5147075**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20						0	0	20	

Qualifiers:

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- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

ANALYTICAL QC SUMMARY REPORT

TestCode: CA_7199_S

Sample ID: **N055842-004A-REP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/10/2023**	RunNo: **171275**
Client ID: **ZZZZZZ**	Batch ID: **99076**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/11/2023**	SeqNo: **5147077**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.065	0.20						0.06965	0	20	

Sample ID: **N055842-005A-REP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/10/2023**	RunNo: **171275**
Client ID: **ZZZZZZ**	Batch ID: **99076**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/11/2023**	SeqNo: **5147079**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20						0	0	20	

Sample ID: **N055842-006A-REP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/10/2023**	RunNo: **171275**
Client ID: **ZZZZZZ**	Batch ID: **99076**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/11/2023**	SeqNo: **5147081**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20						0	0	20	

Sample ID: **N055842-007A-REP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/10/2023**	RunNo: **171275**
Client ID: **ZZZZZZ**	Batch ID: **99076**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/11/2023**	SeqNo: **5147085**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20						0	0	20	

Sample ID: **N055871-005B-REP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/10/2023**	RunNo: **171275**
Client ID: **ZZZZZZ**	Batch ID: **99076**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/11/2023**	SeqNo: **5147087**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20						0	0	20	

Qualifiers:

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- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

ANALYTICAL QC SUMMARY REPORT

TestCode: CA_7199_S

Sample ID: **N055871-010B-REP** SampType: **DUP** TestCode: **CA_7199_S** Units: **mg/Kg** Prep Date: **4/10/2023** RunNo: **171275**
Client ID: **ZZZZZZ** Batch ID: **99076** TestNo: **EPA 7199** **EPA 3060A** Analysis Date: **4/11/2023** SeqNo: **5147089**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.075	0.20						0.07652	0	20	

Sample ID: **N055871-015B-REP** SampType: **DUP** TestCode: **CA_7199_S** Units: **mg/Kg** Prep Date: **4/10/2023** RunNo: **171275**
Client ID: **ZZZZZZ** Batch ID: **99076** TestNo: **EPA 7199** **EPA 3060A** Analysis Date: **4/11/2023** SeqNo: **5147091**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.102	0.20						0.1055	0	20	

Sample ID: **N055871-020B-REP** SampType: **DUP** TestCode: **CA_7199_S** Units: **mg/Kg** Prep Date: **4/10/2023** RunNo: **171275**
Client ID: **ZZZZZZ** Batch ID: **99076** TestNo: **EPA 7199** **EPA 3060A** Analysis Date: **4/11/2023** SeqNo: **5147093**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.082	0.20						0.07957	0	20	

Sample ID: **N055871-025B-REP** SampType: **DUP** TestCode: **CA_7199_S** Units: **mg/Kg** Prep Date: **4/10/2023** RunNo: **171275**
Client ID: **ZZZZZZ** Batch ID: **99076** TestNo: **EPA 7199** **EPA 3060A** Analysis Date: **4/11/2023** SeqNo: **5147097**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.152	0.20						0.1449	0	20	

Sample ID: **N055871-030B-REP** SampType: **DUP** TestCode: **CA_7199_S** Units: **mg/Kg** Prep Date: **4/10/2023** RunNo: **171275**
Client ID: **ZZZZZZ** Batch ID: **99076** TestNo: **EPA 7199** **EPA 3060A** Analysis Date: **4/11/2023** SeqNo: **5147099**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20						0	0	20	

Qualifiers:

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- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: American Environmental Testing Laboratory, Inc.
Work Order: N055881
Project: BED0024

ANALYTICAL QC SUMMARY REPORT

TestCode: CA_7199_S

Sample ID: **N055881-001A-REP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/10/2023**	RunNo: **171275**
Client ID: **ZZZZZZ**	Batch ID: **99076**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/11/2023**	SeqNo: **5147101**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20						0	0	20	

Sample ID: **N055881-002A-REP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/10/2023**	RunNo: **171275**
Client ID: **ZZZZZZ**	Batch ID: **99076**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/11/2023**	SeqNo: **5147103**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.093	0.20						0	0	20	

Sample ID: **N055887-001A-REP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/10/2023**	RunNo: **171275**
Client ID: **ZZZZZZ**	Batch ID: **99076**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/11/2023**	SeqNo: **5147105**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20						0	0	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

N055881

AMERICAN ENVIRONMENTAL TESTING LABORATORY, LLC
2840 North Naomi Street, Burbank, CA 91504 • ELAP# 1541 • LACSD# 10181
Telephone (888) 288-AETL • (818) 845-8200 • www.aetlab.com

SUBCONTRACT CHAIN of CUSTODY

Sending Laboratory:

AETL
AETL, LLC. 2840 N. Naomi Street
Burbank, CA 91504
Phone: 818-845-8200
Project Manager: Hailley Coleman
Email: hcoleman@aetlab.com

Subcontracted Laboratory:

ASSET Laboratories
11110 Artesia Blvd.
Cerritos, CA 90703
Phone: (702)307-2659
Fax: (562)219-7435

Work Order: BED0024 PO #SUB-35272

Analysis	Due	Expires	Comments
Sample ID: BED0024-16 ***Soil*** ***Sampled: 04/06/2023 08:47***			4-DAY TAT
7199 (Chromium Hexavalent by Ion Chromatography)	04/13/2023	05/04/2023 08:47	N055881-001
Containers Supplied:			
Sample ID: BED0024-19 ***Soil*** ***Sampled: 04/06/2023 08:27***			
7199 (Chromium Hexavalent by Ion Chromatography)	04/13/2023	05/04/2023 08:27	-002
Containers Supplied:			

Approved by: HAILLEY COLEMAN 4/6/23
AETL Project Manager — Date

Released By AETL Sample Control	Date	Received By Courier	Date
Released By Courier	04/07/23 1500 Date	Received By Subcontract Laboratory	4/1/23 15:00 Date

IR#1 5.2°C

ASSET Laboratories

Please review the checklist below. Any NO signifies non-compliance. Any non-compliance will be noted and must be understood as having an impact on the quality of the data. All tests will be performed as requested regardless of any compliance issues.

If you have any questions or further instruction, please contact our Project Coordinator at (702) 307-2659.

Cooler Received/Opened On:	4/7/2023	Workorder:	N055881
Rep sample Temp (Deg C):	5.2	IR Gun ID:	1
Temp Blank:	☐ Yes ☑ No		
Carrier name:	Walk-In		
Last 4 digits of Tracking No.:	NA	Packing Material Used:	None
Cooling process:	☑ Ice ☐ Ice Pack ☐ Dry Ice ☐ Other ☐ None		

Sample Receipt Checklist

1. Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
2. Custody seals intact, signed, dated on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
3. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
4. Chain of custody present?	Yes ☑	No ☐	
5. Sampler's name present in COC?	Yes ☐	No ☑	
6. Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
7. Chain of custody agrees with sample labels?	Yes ☑	No ☐	
8. Samples in proper container/bottle?	Yes ☑	No ☐	
9. Sample containers intact?	Yes ☑	No ☐	
10. Sufficient sample volume for indicated test?	Yes ☑	No ☐	
11. All samples received within holding time?	Yes ☑	No ☐	
12. Temperature of rep sample or Temp Blank within acceptable limit?	Yes ☑	No ☐	NA ☐
13. Water - VOA vials have zero headspace?	Yes ☐	No ☐	NA ☑
14. Water - pH acceptable upon receipt? Example: pH > 12 for (CN,S); pH<2 for Metals	Yes ☐	No ☐	NA ☑
15. Did the bottle labels indicate correct preservatives used?	Yes ☐	No ☐	NA ☑
16. Were there Non-Conformance issues at login?	Yes ☑	No ☐	NA ☐
Was Client notified?	Yes ☐	No ☐	NA ☑

Comments:

Checklist Completed By: FOR AW 4/10/2023

Reviewed By:

ASSET Laboratories

WORK ORDER Summary

10-Apr-23

WorkOrder: N055881

Client ID: AETL01

Project: BED0024 **QC Level:** RTNE **Date Received:** 4/7/2023 3:00 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N055881-001A	BED0024-16	4/6/2023 8:47:00 AM	4/13/2023	Soil	EPA 3060A	Prep for Hexavalent Chromium	☐	☐	☐	WS-CA
			4/13/2023		EPA 7199	Hexavalent Chromium by IC	☐	☐	☐	WS-CA
N055881-002A	BED0024-19	4/6/2023 8:27:00 AM	4/13/2023		EPA 3060A	Prep for Hexavalent Chromium	☐	☐	☐	WS-CA
			4/13/2023		EPA 7199	Hexavalent Chromium by IC	☐	☐	☐	WS-CA
N055881-003A	FOLDER	4/13/2023	4/13/2023		Folder	Folder	☐	☐	☐	LAB
			4/13/2023		Folder	Folder	☐	☐	☐	LAB

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April 25, 2023

AETL Job No: BED0024.01
Received Date: 04/06/2023
Project Number: [none]

Parsons
100 West Walnut Street
Pasadena, CA 91124
Telephone: (626) 440-6200

Attention: Justin King

Project Name: Canoga Park High School
Site: 6850 CA-27
Canoga Park, CA 91303

Enclosed please find the results of analyses for samples which were analyzed as specified on the attached chain of custody. If you have any questions concerning this report, please do not hesitate to call.

Checked By: Hailley Coleman
Project Manager

Approved By: Joe Sevrean
Laboratory Director

Table of Contents

Client Project Name: General Soil Testing Project Number: [none]
Work Order Number: BED0024

1 Cover Letter 1
2 Sample Condition on Receipt 3
3 Chain of Custody 4
4 Cooler Receipt Forms 6
5 Case Narrative 7
6 Samples Received 8
7 Positive Hits Summary 10
8 Analytical Results 11
9 Quality Control Results 16
10 Qualifiers and Definitions 25
11 Sub Contracted Analysis 27

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Parsons	AETL Job Number:	BED0024	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/25/2023 15:28	

Sample Condition on Receipt

Cooler ID: Default Cooler **Temperature: 5.9 °C**

Are the COCs Correct	Y		
Labels Legible	Y	Containers In Good Condition	Y
COC/Labels Agree	Y	Samples Preserved Properly	Y
Sufficient Sample Volume	Y	Sufficient Holding Time for all Tests	Y
Sample Labels intact	Y	Received on Ice	Y

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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CHAIN OF CUSTODY RECORD

108478

AETL JOB No. BE00024 Page 1 of 2

COMPANY	Parsons
PROJECT MANAGER	Justin King
COMPANY ADDRESS	100 W. Walnut Street Pasadena, CA 91124
PHONE / FAX	(310) 809-5793
PROJECT NAME	Canoga Park Highschool
PROJECT #	
SITE NAME AND ADDRESS	6850 CA-27, Canoga Park, CA 91303
PO #	

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	OCPs (8081A)	STLC-Pb	TCLP-Pb	TEST INSTRUCTIONS & COMMENTS
1	SB-48-D0.5	BE00024-01	4/6/2023	0709	Soil	1x 90z	NONE	X	X	X			
2	SB-48-D2.0	-02		0714									Hold
3	SB-48-D3.0	-03		0718									Hold
4	SB-49-D0.5	-04		0726				X	X	X			
5	SB-49-D2.0	-05		0729									Hold
6	SB-49-D3.0	-06		0732									Hold
7	SB-17-D0.5	-07		0809				X	X	X			
8	SB-17-D2.0	-08		0812									Hold
9	SB-17-D3.0	-09		0815									Hold
10	SB-32-D0.5	-10		0907				X	X	X	X		
11	SB-32-D2.0	-11		0910						X			Hold
12	SB-32-D3.0	-12		0913									Hold
13	SB-28-D0.5	-13		0922				X	X	X	X	X	
14	SB-28-D2.0	-14		0925				X					Hold
15	SB-28-D3.0	-15		0929									Hold

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y/ N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

TURN AROUND TIME

☑ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY
☑ PDF
☐ GEOTRACKER (GLOBAL ID) _____
☐ OTHER (PLEASE SPECIFY) _____

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: E. Salazar	Signature:	Signature:
Printed Name: Edward Dabays	Printed Name:	Printed Name:
Date: 4/6/2023 Time: 1140	Date: Time:	Date: Time:
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: 3.**
Signature:	Signature:	Signature: AETL
Printed Name:	Printed Name:	Printed Name: Crystal Avila
Date: Time:	Date: Time:	Date: 4/6/23 Time: 11:40

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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CHAIN OF CUSTODY RECORD

108482

AETL JOB No. BE00024 Page 2 of 2

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut Street Pasadena, CA 91124
PHONE / FAX: (310) 809-5743
PROJECT NAME: Canoga Park Highschool
PROJECT #:
SITE NAME AND ADDRESS: 6850 CA-27, Canoga Park, CA 91303
PO#:

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	OCPs (8081A)	PCBs (8082)	Asbestos (PLM)	PAHs (8270C)	Cr(VI) (7199)	Cd+Ni (6010B)	Mercury (7470A)	TEST INSTRUCTIONS & COMMENTS
1	SB-31-D0.5	BE00024-16	4/6/2023	0847	Soil	1x9oz + 2x2oz	NONE	X	X	X	X	X	X	X	X	X	
2	SB-31-D2.0	-17		0853		1x9oz											Hold
3	SB-31-D3.0	-18		0857		1x9oz											Hold
4	SB-20-D0.5	-19		0827		1x9oz + 2x2oz		X	X	X	X	X	X	X	X	X	ASB.
5	SB-20-D2.0	-20		0830		1x4oz			X								Hold
6	SB-20-D3.0	-21		0834													Hold
7	SB-30-D0.5	-22		0939				X	X	X							
8	SB-30-D2.0	-23		0943													Hold
9																	
10																	
11																	
12																	
13																	
14																	
15																	

E. Galvan

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y / N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

TURN AROUND TIME

☑ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY ☑ PDF ☐ GEOTRACKER (GLOBAL ID) _____ ☐ OTHER (PLEASE SPECIFY) _____

	1.	2.	3.
RELINQUISHED BY SAMPLER:		RELINQUISHED BY:	RELINQUISHED BY:
Signature:	E. Galvan	Signature:	Signature:
Printed Name:	Edward Dabbs	Printed Name:	Printed Name:
Date: / Time:	4/6/2023 / 1140	Date: / Time:	Date: / Time:
RECEIVED BY:	1.	2.	3.
			RECEIVED BY LABORATORY: AETL
Signature:		Signature:	Signature: Christian Avila
Printed Name:		Printed Name:	Printed Name:
Date: / Time:		Date: / Time:	Date: 4/6/23 Time: 11:40

Page 5 of 50

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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COOLER RECEIPT FORM

Client Name: Parsons

Project Name: Canoga Park High School Project No.:

AETL Job Number: BED0024

Date Received: 04-06-23 Received by: Chantal A.

Carrier: ☑ AETL Courier ☐ Client ☐ GSL ☐ FedEx ☐ UPS
☐Others:

Samples were received in: ☑ Cooler (__2_____) ☐ Other (Specify)**:**

Sample Container Temperature: __5.9__ °C IR Gun S/N: 51941911MV

Type of sample containers: ☐ VOA, ☐ Glass bottles, ☑Wide mouth jars, ☐HDPE bottles, ☐ Metal sleeves, ☐ Acetate sleeves, ☐ 5035 Kit: ☐ AETL or ☐ Client, ☐ Tedlar Bags, Summa Canister: ☐ 6L, ☐ 3L, ☐ 1L, Others (Specify): _____

How are samples preserved: ☐ None, ☑ Ice, ☐ Blue Ice, ☐ Dry Ice
☑ None, ☐ HNO_3, ☐ NaOH, ☐ ZnOAc, ☐ HCl, ☐ $Na_2S_2O_3$, ☐ MeOH, ☐ $NaHSO_4$
☐ Other (Specify):

	Yes	No	N/A	Note or Comment
1. Are the COCs Correct?	✔			
2. Are Sample labels legible & indelible ink?	✔			
3. Do samples match the COC?	✔			
4. Are the required analyses clear?	✔			
5. Is there enough samples for required analysis?	✔			
6. Does cooler or samples have custody seal(s)?			✔	
7. Are sample containers in good condition?	✔			
8. Are samples preserved?	✔			
9. Are samples preserved properly for the intended analysis?	✔			
10. Are the VOAs free of headspace? See footnote.			✔	
11. Are the jars free of headspace?			✔	

* = see note below. N/A = Not Applicable

PLEASE NOTE ALL SAMPLES WILL BE DISPOSED OF 30 DAYS AFTER RECEIVING DATE. IF AETL IS INFORMED OTHERWISE, THERE WILL BE A STORAGE CHARGE PER SAMPLE PER MONTH FOR ANY SAMPLE HELD BEYOND 30 DAYS.

◯ Example maximum headspace bubble size; acceptance criteria not to exceed 5-6 mm in diameter.

For headspace bubbles exceeding 6 mm in diameter, sample receiving will tag the VOA and notify the Project Manager. The Project Manager will contact client for Analyze or Resample instructions.

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Parsons	AETL Job Number:	BED0024	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/25/2023 15:28

Case Narrative

The following "Sample Received" Section summarizes the samples received and associated analyses requested as specified on the enclosed chain of custody.

Results as reported by the laboratory apply only to 1) the items tested, 2) as the samples are received, and 3) the accuracy of information provided. Information supplied by the customer that may affect validity of results and may be contained in this report include Project Name/Number, Site Location, Sample Locations, Sampling Dates/Times, Sample ID, Sample Preservation, Sample Matrix, Sample Properties, Field Blanks, Field Duplicates, Field Spikes, and Site Historical Data.

Accreditation applies only to the test methods listed on each scope of accreditation held by the laboratory; certifications held by the laboratory may not apply to results supplied in this report.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

Qualifiers are noted in the report.

The samples were subcontracted to AIH Laboratory for EPA-600R-93/116. Please see attached report for results.

The samples were subcontracted to Orange Coast Analytical for EPA 6020-As. Please see attached report for results.

The samples were subcontracted to Asset Laboratories for EPA 7199. Please see attached report for results.

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

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Parsons	AETL Job Number:	BED0024	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/25/2023 15:28	

Samples Received

AETL received the following samples on 04/06/2023 with the following specifications

Client ID SB-32-D0.5 — **Sample Date** 04/6/2023 9:07

Lab ID BED0024-10 — **Matrix** Soil — **Quantity of Containers** 2

Method	Analyte	Units	TAT
EPA 6010B-STLC	STLC Lead by ICP	mg/L	5
EPA 8081A	Organochlorine Pesticides by GC/ECD	ug/kg	5

Client ID SB-32-D2.0 — **Sample Date** 04/6/2023 9:10

Lab ID BED0024-11 — **Matrix** Soil — **Quantity of Containers** 1

Method	Analyte	Units	TAT
EPA 8081A	Organochlorine Pesticides by GC/ECD	ug/kg	5

Client ID SB-28-D0.5 — **Sample Date** 04/6/2023 9:22

Lab ID BED0024-13 — **Matrix** Soil — **Quantity of Containers** 2

Method	Analyte	Units	TAT
EPA 6010B-1311 TCLP	TCLP Lead by ICP	mg/L	5
EPA 6010B-STLC	STLC Lead by ICP	mg/L	5

Client ID SB-28-D2.0 — **Sample Date** 04/6/2023 9:25

Lab ID BED0024-14 — **Matrix** Soil — **Quantity of Containers** 1

Method	Analyte	Units	TAT

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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Parsons	AETL Job Number:	BED0024	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/25/2023 15:28

Samples Received

(Continued)

AETL received the following samples on 04/06/2023 with the following specifications

EPA 6010B	**Lead, total by ICP**	**mg/kg**	**5**

Total Number of Samples received: 4

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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Parsons	AETL Job Number:	BED0024	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/25/2023 15:28	

Positive Hits Summary

Lab ID	Client ID				Sampled
BED0024-10	SB-32-D0.5				04/06/2023 09:07
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 8081A	Aldrin	1.09		ug/kg	04/18/2023 13:55
EPA 8081A	alpha-Chlordane	0.539	J	ug/kg	04/18/2023 13:55
EPA 8081A	gamma-Chlordane	0.851	J	ug/kg	04/18/2023 13:55
EPA 8081A	Chlordane (Total)	1.40	J	ug/kg	04/18/2023 13:55
EPA 8081A	4,4'-DDE (DDE)	1.22		ug/kg	04/18/2023 13:55
EPA 8081A	Dieldrin	106		ug/kg	04/18/2023 13:55
EPA 8081A	Endrin	0.569	J	ug/kg	04/18/2023 13:55
EPA 6010B-STLC	Lead	2.08		mg/L	04/21/2023 15:49

Lab ID	Client ID				Sampled
BED0024-11	SB-32-D2.0				04/06/2023 09:10
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 8081A	Dieldrin	1.67		ug/kg	04/18/2023 15:03

Lab ID	Client ID				Sampled
BED0024-13	SB-28-D0.5				04/06/2023 09:22
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B-STLC	Lead	21.2		mg/L	04/21/2023 15:52
EPA 6010B-1311 TCLP	Lead	0.133		mg/L	04/21/2023 15:04

Lab ID	Client ID				Sampled
BED0024-14	SB-28-D2.0				04/06/2023 09:25
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	10.7		mg/kg	04/19/2023 13:52

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Parsons	AETL Job Number:	BED0024	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/25/2023 15:28	

Analytical Results

Client ID: SB-32-D0.5

Lab ID: BED0024-10 (Soil) **Sampled: 04/06/23 9:07**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Organochlorine Pesticides											
Method: EPA 8081A											
Aldrin	**1.09**		1	0.0900	1.00	ug/kg	04/18/23 11:07	04/18/23 13:55	B3D0229	BC	3550B
alpha-Chlordane	**0.539**	J	1	0.121	1.00	ug/kg	04/18/23 11:07	04/18/23 13:55	B3D0229	BC	3550B
gamma-Chlordane	**0.851**	J	1	0.114	1.00	ug/kg	04/18/23 11:07	04/18/23 13:55	B3D0229	BC	3550B
Chlordane (Total)	**1.40**	J	1	1.00	2.00	ug/kg	04/18/23 11:07	04/18/23 13:55	B3D0229	BC	3550B
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	ND		1	0.0620	1.00	ug/kg	04/18/23 11:07	04/18/23 13:55	B3D0229	BC	3550B
alpha-Hexachlorocyclohexane (Alpha-BHC)	ND		1	0.0710	1.00	ug/kg	04/18/23 11:07	04/18/23 13:55	B3D0229	BC	3550B
beta-Hexachlorocyclohexane (Betta-BHC)	ND		1	0.217	1.00	ug/kg	04/18/23 11:07	04/18/23 13:55	B3D0229	BC	3550B
delta-Hexachlorocyclohexane (Delta-BHC)	ND		1	0.0880	1.00	ug/kg	04/18/23 11:07	04/18/23 13:55	B3D0229	BC	3550B
4,4'-DDD (DDD)	ND		1	0.0980	1.00	ug/kg	04/18/23 11:07	04/18/23 13:55	B3D0229	BC	3550B
4,4'-DDE (DDE)	**1.22**		1	0.0930	1.00	ug/kg	04/18/23 11:07	04/18/23 13:55	B3D0229	BC	3550B
4,4'-DDT (DDT)	ND		1	0.235	1.00	ug/kg	04/18/23 11:07	04/18/23 13:55	B3D0229	BC	3550B
Dieldrin	**106**		1	0.0950	1.00	ug/kg	04/18/23 11:07	04/18/23 13:55	B3D0229	BC	3550B
Endrin	**0.569**	J	1	0.106	1.00	ug/kg	04/18/23 11:07	04/18/23 13:55	B3D0229	BC	3550B
Endrin aldehyde	ND		1	0.117	1.00	ug/kg	04/18/23 11:07	04/18/23 13:55	B3D0229	BC	3550B
Endrin ketone	ND		1	0.122	1.00	ug/kg	04/18/23 11:07	04/18/23 13:55	B3D0229	BC	3550B
Endosulfan 1	ND		1	0.115	1.00	ug/kg	04/18/23 11:07	04/18/23 13:55	B3D0229	BC	3550B
Endosulfan 11	ND		1	0.177	1.00	ug/kg	04/18/23 11:07	04/18/23 13:55	B3D0229	BC	3550B
Endosulfan sulfate	ND		1	0.0470	1.00	ug/kg	04/18/23 11:07	04/18/23 13:55	B3D0229	BC	3550B
Heptachlor	ND		1	0.206	1.00	ug/kg	04/18/23 11:07	04/18/23 13:55	B3D0229	BC	3550B
Heptachlor epoxide	ND		1	0.101	1.00	ug/kg	04/18/23 11:07	04/18/23 13:55	B3D0229	BC	3550B
Methoxychlor	ND		1	0.310	1.00	ug/kg	04/18/23 11:07	04/18/23 13:55	B3D0229	BC	3550B
Toxaphene	ND		1	4.10	50.0	ug/kg	04/18/23 11:07	04/18/23 13:55	B3D0229	BC	3550B
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*78.2%*				*30-150*		04/18/23 11:07	*04/18/23 13:55*	B3D0229	*BC*	3550B
Surrogate: Tetrachloro-m-xylene	*72.8%*				*30-150*		04/18/23 11:07	*04/18/23 13:55*	B3D0229	*BC*	3550B
STLC Analysis											
Method: EPA 6010B-STLC											
Lead	**2.08**		1	0.0100	0.0500	mg/L	04/20/23 12:00	04/21/23 15:49	B3D0259	LE	3050B

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Parsons	AETL Job Number:	BED0024	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/25/2023 15:28	

Analytical Results

Client ID: **SB-32-D0.5**
Lab ID: **BED0024-10 (Soil)** **Sampled:** **04/06/23 9:07**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method

STLC Analysis (Continued)

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Parsons	AETL Job Number:	BED0024	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/25/2023 15:28	

Analytical Results

Client ID: SB-32-D2.0

Lab ID: BED0024-11 (Soil) **Sampled: 04/06/23 9:10**

Organochlorine Pesticides

Method: EPA 8081A

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Aldrin	ND		1	0.0900	1.00	ug/kg	04/18/23 11:07	04/18/23 15:03	B3D0229	BC	3550B
alpha-Chlordane	ND		1	0.121	1.00	ug/kg	04/18/23 11:07	04/18/23 15:03	B3D0229	BC	3550B
gamma-Chlordane	ND		1	0.114	1.00	ug/kg	04/18/23 11:07	04/18/23 15:03	B3D0229	BC	3550B
Chlordane (Total)	ND		1	1.00	2.00	ug/kg	04/18/23 11:07	04/18/23 15:03	B3D0229	BC	3550B
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	ND		1	0.0620	1.00	ug/kg	04/18/23 11:07	04/18/23 15:03	B3D0229	BC	3550B
alpha-Hexachlorocyclohexane (Alpha-BHC)	ND		1	0.0710	1.00	ug/kg	04/18/23 11:07	04/18/23 15:03	B3D0229	BC	3550B
beta-Hexachlorocyclohexane (Betta-BHC)	ND		1	0.217	1.00	ug/kg	04/18/23 11:07	04/18/23 15:03	B3D0229	BC	3550B
delta-Hexachlorocyclohexane (Delta-BHC)	ND		1	0.0880	1.00	ug/kg	04/18/23 11:07	04/18/23 15:03	B3D0229	BC	3550B
4,4'-DDD (DDD)	ND		1	0.0980	1.00	ug/kg	04/18/23 11:07	04/18/23 15:03	B3D0229	BC	3550B
4,4'-DDE (DDE)	ND		1	0.0930	1.00	ug/kg	04/18/23 11:07	04/18/23 15:03	B3D0229	BC	3550B
4,4'-DDT (DDT)	ND		1	0.235	1.00	ug/kg	04/18/23 11:07	04/18/23 15:03	B3D0229	BC	3550B
Dieldrin	**1.67**		1	0.0950	1.00	ug/kg	04/18/23 11:07	04/18/23 15:03	B3D0229	BC	3550B
Endrin	ND		1	0.106	1.00	ug/kg	04/18/23 11:07	04/18/23 15:03	B3D0229	BC	3550B
Endrin aldehyde	ND		1	0.117	1.00	ug/kg	04/18/23 11:07	04/18/23 15:03	B3D0229	BC	3550B
Endrin ketone	ND		1	0.122	1.00	ug/kg	04/18/23 11:07	04/18/23 15:03	B3D0229	BC	3550B
Endosulfan 1	ND		1	0.115	1.00	ug/kg	04/18/23 11:07	04/18/23 15:03	B3D0229	BC	3550B
Endosulfan 11	ND		1	0.177	1.00	ug/kg	04/18/23 11:07	04/18/23 15:03	B3D0229	BC	3550B
Endosulfan sulfate	ND		1	0.0470	1.00	ug/kg	04/18/23 11:07	04/18/23 15:03	B3D0229	BC	3550B
Heptachlor	ND		1	0.206	1.00	ug/kg	04/18/23 11:07	04/18/23 15:03	B3D0229	BC	3550B
Heptachlor epoxide	ND		1	0.101	1.00	ug/kg	04/18/23 11:07	04/18/23 15:03	B3D0229	BC	3550B
Methoxychlor	ND		1	0.310	1.00	ug/kg	04/18/23 11:07	04/18/23 15:03	B3D0229	BC	3550B
Toxaphene	ND		1	4.10	50.0	ug/kg	04/18/23 11:07	04/18/23 15:03	B3D0229	BC	3550B
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*68.9%*				*30-150*		04/18/23 11:07	*04/18/23 15:03*	B3D0229	*BC*	3550B
Surrogate: Tetrachloro-m-xylene	*67.0%*				*30-150*		04/18/23 11:07	*04/18/23 15:03*	B3D0229	*BC*	3550B

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Parsons	AETL Job Number:	BED0024	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/25/2023 15:28	

Analytical Results

Client ID: SB-28-D0.5
Lab ID: BED0024-13 (Soil) **Sampled:** 04/06/23 9:22

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
STLC Analysis											
Method: EPA 6010B-STLC											
Lead	**21.2**		1	0.0100	0.0500	mg/L	04/20/23 12:00	04/21/23 15:52	B3D0259	LE	3050B
TCLP Analysis											
Method: EPA 6010B-1311 TCLP											
Lead	**0.133**		1	0.00500	0.0250	mg/L	04/19/23 12:52	04/21/23 15:04	B3D0247	LE	3050B

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Parsons	AETL Job Number:	BED0024	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/25/2023 15:28	

Analytical Results

Client ID: SB-28-D2.0

Lab ID: BED0024-14 (Soil) **Sampled: 04/06/23 9:25**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Lead	**10.7**		1	0.550	5.00	mg/kg	04/18/23 14:30	04/19/23 13:52	B3D0232	LE	3050B

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100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/25/2023 15:28

Quality Control Results

STLC Analysis (EPA 6010B-STLC)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0259 - 3050B					**Prepared: 04/20/2023 12:00**						
Method Blank (B3D0259-BLK1)					**Analyzed: 04/21/2023 15:10**						
Lead	ND	0.0100	0.0500	mg/L							

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100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/25/2023 15:28	

Quality Control Results

STLC Analysis (EPA 6010B-STLC)

Analyte	Result		RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0259 - 3050B (Continued)					**Prepared: 04/20/2023 12:00**						
LCS (B3D0259-BS1)					**Analyzed: 04/21/2023 15:13**						
Lead	18.8		0.0500	mg/L	20.0		94.0	75-125			
LCSD (B3D0259-BSD1)					**Analyzed: 04/21/2023 15:17**						
Lead	18.8		0.0500	mg/L	20.0		94.0	75-125	0.0552	15	
Duplicate (B3D0259-DUP1)		**Source: BED0016-04**			**Analyzed: 04/21/2023 15:23**						
Lead	0.370	0.0100	0.0500	mg/L		0.396			6.75	15	

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100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/25/2023 15:28

Quality Control Results

TCLP Analysis (EPA 6010B-1311 TCLP)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0247 - 3050B					**Prepared: 04/19/2023 12:52**						
Method Blank (B3D0247-BLK1)					**Analyzed: 04/21/2023 14:35**						
Lead	ND	0.00500	0.0250	mg/L							

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Parsons	AETL Job Number:	BED0024	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/25/2023 15:28

Quality Control Results

TCLP Analysis (EPA 6010B-1311 TCLP)

Analyte	Result		RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0247 - 3050B (Continued)					**Prepared: 04/19/2023 12:52**						
LCS (B3D0247-BS1)					**Analyzed: 04/21/2023 14:38**						
Lead	9.51		0.0250	mg/L	10.0		95.1	75-125			
LCSD (B3D0247-BSD1)					**Analyzed: 04/21/2023 14:41**						
Lead	9.37		0.0250	mg/L	10.0		93.7	75-125	1.44	15	
Duplicate (B3D0247-DUP1)		**Source: BED0016-04**			**Analyzed: 04/21/2023 14:48**						
Lead	0.0485	0.00500	0.0250	mg/L		ND			NA	15	

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100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/25/2023 15:28

Quality Control Results

Metals Total (EPA 6010B)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0232 - 3050B					**Prepared: 04/18/2023 14:30**						
Method Blank (B3D0232-BLK1)					**Analyzed: 04/19/2023 12:59**						
Lead	ND	0.550	5.00	mg/kg							

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Parsons	AETL Job Number:	BED0024	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/25/2023 15:28	

Quality Control Results

Metals Total (EPA 6010B)

Analyte	Result		RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0232 - 3050B (Continued)					**Prepared: 04/18/2023 14:30**						
LCS (B3D0232-BS1)					**Analyzed: 04/19/2023 13:03**						
Lead	96.8		5.00	mg/kg	100		96.8	75-125			
LCSD (B3D0232-BSD1)					**Analyzed: 04/19/2023 13:06**						
Lead	95.7		5.00	mg/kg	99.0		96.7	75-125	1.06	15	
Duplicate (B3D0232-DUP1)		**Source: BED0011-02**			**Analyzed: 04/19/2023 13:11**						
Lead	14.9	0.550	5.00	mg/kg		9.70			42.5	20	R
Matrix Spike (B3D0232-MS1)		**Source: BED0011-02**			**Analyzed: 04/19/2023 13:14**						
Lead	96.6	0.550	5.00	mg/kg	100	9.70	86.9	75-125			
Matrix Spike Dup (B3D0232-MSD1)		**Source: BED0011-02**			**Analyzed: 04/19/2023 13:17**						
Lead	98.9	0.550	5.00	mg/kg	100	9.70	89.2	75-125	2.39	15	

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Parsons	AETL Job Number:	BED0024	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/25/2023 15:28

Quality Control Results

Organochlorine Pesticides (EPA 8081A)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0229 - 3550B					**Prepared: 04/18/2023 11:07**						
Method Blank (B3D0229-BLK1)					**Analyzed: 04/18/2023 13:04**						
Aldrin	ND	0.0900	1.00	ug/kg							
alpha-Chlordane	ND	0.121	1.00	ug/kg							
gamma-Chlordane	ND	0.114	1.00	ug/kg							
Chlordane (Total)	ND	1.00	2.00	ug/kg							
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	ND	0.0620	1.00	ug/kg							
alpha-Hexachlorocyclohexane (Alpha-BHC)	ND	0.0710	1.00	ug/kg							
beta-Hexachlorocyclohexane (Betta-BHC)	ND	0.217	1.00	ug/kg							
delta-Hexachlorocyclohexane (Delta-BHC)	ND	0.0880	1.00	ug/kg							
4,4'-DDD (DDD)	ND	0.0980	1.00	ug/kg							
4,4'-DDE (DDE)	ND	0.0930	1.00	ug/kg							
4,4'-DDT (DDT)	ND	0.235	1.00	ug/kg							
Dieldrin	ND	0.0950	1.00	ug/kg							
Endrin	ND	0.106	1.00	ug/kg							
Endrin aldehyde	ND	0.117	1.00	ug/kg							
Endrin ketone	ND	0.122	1.00	ug/kg							
Endosulfan 1	ND	0.115	1.00	ug/kg							
Endosulfan 11	ND	0.177	1.00	ug/kg							
Endosulfan sulfate	ND	0.0470	1.00	ug/kg							
Heptachlor	ND	0.206	1.00	ug/kg							
Heptachlor epoxide	ND	0.101	1.00	ug/kg							
Methoxychlor	ND	0.310	1.00	ug/kg							
Toxaphene	ND	4.10	50.0	ug/kg							
Surrogate: Decachlorobiphenyl	*24.2*			*ug/kg*	*25.0*		*96.8*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*19.3*			*ug/kg*	*25.0*		*77.2*	*30-150*			

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Parsons	AETL Job Number:	BED0024	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/25/2023 15:28	

Quality Control Results

Organochlorine Pesticides (EPA 8081A)

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0229 - 3550B (Continued)				**Prepared: 04/18/2023 11:07**						
LCS (B3D0229-BS1)				**Analyzed: 04/18/2023 11:56**						
Aldrin	18.4	1.00	ug/kg	25.0		73.4	50-150			
alpha-Chlordane	25.9	1.00	ug/kg	25.0		103	50-150			
gamma-Chlordane	29.0	1.00	ug/kg	25.0		116	50-150			
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	22.2	1.00	ug/kg	25.0		88.9	50-150			
alpha-Hexachlorocyclohexane (Alpha-BHC)	19.1	1.00	ug/kg	25.0		76.4	50-150			
beta-Hexachlorocyclohexane (Betta-BHC)	24.8	1.00	ug/kg	25.0		99.3	50-150			
delta-Hexachlorocyclohexane (Delta-BHC)	27.1	1.00	ug/kg	25.0		108	50-150			
4,4'-DDD (DDD)	30.1	1.00	ug/kg	25.0		121	50-150			
4,4'-DDE (DDE)	27.8	1.00	ug/kg	25.0		111	50-150			
4,4'-DDT (DDT)	34.7	1.00	ug/kg	25.0		139	50-150			
Dieldrin	27.4	1.00	ug/kg	25.0		110	50-150			
Endrin	24.1	1.00	ug/kg	25.0		96.5	50-150			
Endrin aldehyde	22.0	1.00	ug/kg	25.0		88.1	50-150			
Endrin ketone	30.1	1.00	ug/kg	25.0		120	50-150			
Endosulfan 1	24.7	1.00	ug/kg	25.0		98.8	50-150			
Endosulfan 11	25.3	1.00	ug/kg	25.0		101	50-150			
Endosulfan sulfate	28.3	1.00	ug/kg	25.0		113	50-150			
Heptachlor	25.7	1.00	ug/kg	25.0		103	50-150			
Heptachlor epoxide	25.1	1.00	ug/kg	25.0		100	50-150			
Methoxychlor	32.4	1.00	ug/kg	25.0		130	50-150			
Surrogate: Decachlorobiphenyl	*25.8*		*ug/kg*	*25.0*		*103*	*50-150*			
Surrogate: Tetrachloro-m-xylene	*12.6*		*ug/kg*	*25.0*		*50.2*	*50-150*			
LCS (B3D0229-BS2)				**Analyzed: 04/18/2023 12:30**						
Toxaphene	562	50.0	ug/kg	500		112	50-150			
Surrogate: Decachlorobiphenyl	*51.0*		*ug/kg*	*50.0*		*102*	*50-150*			
Surrogate: Tetrachloro-m-xylene	*43.6*		*ug/kg*	*50.0*		*87.3*	*50-150*			

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AMERICAN ENVIRONMENTAL TESTING LABORATORY, LLC
2840 North Naomi Street, Burbank, CA 91504 • ELAP# 1541 • LACSD# 10181
Telephone (888) 288-AETL • (818) 845-8200 • www.aetlab.com
A KYZER LABS COMPANY

Parsons	AETL Job Number:	BED0024	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/25/2023 15:28	

Quality Control Results

Organochlorine Pesticides (EPA 8081A)

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0229 - 3550B (Continued)				**Prepared: 04/18/2023 11:07**						
LCSD (B3D0229-BSD1)				**Analyzed: 04/18/2023 12:13**						
Aldrin	18.5	1.00	ug/kg	25.0		73.9	50-150	0.671	40	
alpha-Chlordane	25.3	1.00	ug/kg	25.0		101	50-150	2.29	40	
gamma-Chlordane	28.2	1.00	ug/kg	25.0		113	50-150	2.75	40	
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	21.9	1.00	ug/kg	25.0		87.5	50-150	1.61	40	
alpha-Hexachlorocyclohexane (Alpha-BHC)	18.8	1.00	ug/kg	25.0		75.2	50-150	1.53	40	
beta-Hexachlorocyclohexane (Betta-BHC)	24.3	1.00	ug/kg	25.0		97.2	50-150	2.15	40	
delta-Hexachlorocyclohexane (Delta-BHC)	26.7	1.00	ug/kg	25.0		107	50-150	1.66	40	
4,4'-DDD (DDD)	30.6	1.00	ug/kg	25.0		123	50-150	1.65	40	
4,4'-DDE (DDE)	27.9	1.00	ug/kg	25.0		111	50-150	0.103	40	
4,4'-DDT (DDT)	35.4	1.00	ug/kg	25.0		142	50-150	1.99	40	
Dieldrin	26.7	1.00	ug/kg	25.0		107	50-150	2.75	40	
Endrin	22.5	1.00	ug/kg	25.0		89.9	50-150	7.07	40	
Endrin aldehyde	22.1	1.00	ug/kg	25.0		88.5	50-150	0.456	40	
Endrin ketone	30.8	1.00	ug/kg	25.0		123	50-150	2.33	40	
Endosulfan 1	24.4	1.00	ug/kg	25.0		97.5	50-150	1.35	40	
Endosulfan 11	24.8	1.00	ug/kg	25.0		99.3	50-150	1.88	40	
Endosulfan sulfate	28.3	1.00	ug/kg	25.0		113	50-150	0.191	40	
Heptachlor	25.6	1.00	ug/kg	25.0		102	50-150	0.581	40	
Heptachlor epoxide	24.7	1.00	ug/kg	25.0		98.9	50-150	1.59	40	
Methoxychlor	33.4	1.00	ug/kg	25.0		134	50-150	2.93	40	
Surrogate: Decachlorobiphenyl	*27.1*		*ug/kg*	*25.0*		*109*	*50-150*			
Surrogate: Tetrachloro-m-xylene	*12.6*		*ug/kg*	*25.0*		*50.6*	*50-150*			
LCSD (B3D0229-BSD2)				**Analyzed: 04/18/2023 12:47**						
Toxaphene	548	50.0	ug/kg	500		110	50-150	2.61	40	
Surrogate: Decachlorobiphenyl	*40.2*		*ug/kg*	*50.0*		*80.4*	*50-150*			
Surrogate: Tetrachloro-m-xylene	*38.0*		*ug/kg*	*50.0*		*76.0*	*50-150*			

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Telephone (888) 288-AETL • (818) 845-8200 • www.aetlab.com
A KYZER LABS COMPANY

Parsons	AETL Job Number:	BED0024	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/25/2023 15:28

Qualifiers and Definitions

Item	Qualifiers
J	Analyte was detected. However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Reporting Limit (RL).
R	The RPD was outside of QC acceptance limits due to possible matrix interference.

Item	Definitions
% wt	Percent Weight
%REC	Percent Recovery
°F	Degrees Fahrenheit
AETL	American Environmental Testing Laboratory, LLC
C	Carbon
CARB	California Air Resources Board
COC	Chain of Custody
Cresols	3-methylphenol/4-methylphenol coelute and cannot be chromatographically separated. Due to this coeluting isomer pair phenomenon, the laboratory uses a single cresol (4-methylphenol) as calibration standard for 3-methylphenol/4-methylphenol.
CRM	Certified Reference Material
DPD	Department of Planning and Development
DRO	Diesel Range Organics
Dup	Duplicate
ELAP	Environmental Laboratory Accreditation Program
EPA	Environmental Protection Agency
GC/FID	Gas Chromatography Flame Ionization Detection
GRO	Gasoline Range Organics
HC	Hydrocarbon
HEM	Hexane Extractable Material
HMU	Hazardous Material Unit
ICP/MS	Inductively Coupled Plasma Mass Spectrometry
LACSD	Los Angeles County Sanitation Districts
LCS	Laboratory Control Sample - A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes.
LCSD	Laboratory Control Sample Duplicate - A replicate of Laboratory Control Sample.
LOQ	Limit of Quantitation
MDL	Method Detection Limit - The minimum measured concentration of a substance that can be reported with 99% confidence. MDL is statistically derived number which is specific for each instrument, each method and each compound.
mg/kg	Miligrams per Kilogram
mg/L	Miligrams per Liter
ml/L/hr	Milliliter per Liter per Hour
MRO	Motor oil Range Organics

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Parsons	AETL Job Number:	BED0024	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/25/2023 15:28

MS	Matrix Spike - A sample prepared, taken through all sample preparation and analytical steps of the procedure and analyzed as an independent test results.
MSD	Matrix Spike Duplicate - A replicate of Matrix Spike Sample.
N	No
ND	Analyte is not detected below Method Detection Limit.
ng/m3	Nanograms per cubic meter
NIOSH	National Institute for Occupational Safety and Health
nL/L	Nanoliters per Liter
NTU	Nephelometric Turbidity Units
Ohm-cm	Ohms per centimeter
ORO	Oil Range Organics
OSHA	Occupational Safety and Health Administration
PCB	Polychlorinated Biphenyl
PSU	Practical Salinity Unit
RL	Reporting Limit - The lowest concentration at which an analyte can be detected in a sample and its concentration can be reported with a specified degree of confidence, accuracy and precision. For usage at AETL, RL is equivalant to LOQ.
RPD	Relative Percent Difference
SIM	Selective Ion Monitoring
SM	Standard Method
SPLP	Synthetic Precipitation Leaching Procedure
STLC	Soluble Threshold Limit Concentration
TCLP	Toxicity Characteristic Leaching Procedure
TPH	Total Petroleum Hydrocarbons
TTLC	Total Threshold Limit Concentrations
ug/kg	Micrograms per Kilogram
ug/L	Micrograms per Liter
ug/m3	Micrograms per cubic meter
WET	Waste Extraction Test
Y	Yes
ZHE	Zero Headspace Extraction

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AIH LABORATORY
2556 W Woodland Dr Anaheim, CA 92801

BULK ASBESTOS FIBER ANALYSIS
BY POLARIZED LIGHT MICROSCOPY

NVLAP TESTING
NVLAP LAB CODE 500079-0
Phone:(562) 860-2201
www.aihlab.com

Client Name: American Environmental Testing Laboratory
Project Manager: Joe Sevrean
Client Address: 2840 North Naomi Street Burbank, CA 91504
Project Number: BED0024/ SMPL-35273
Project Location: No Information Provided

Lab Batch Number: 2307769
Samples Submitted: 2
Samples Analyzed: 2
Analysis Method: EPA 600/R-93-116 & EPA 600/M4-82-020

Lab ID: 230776901 **Client ID:** BED0024-16

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Brown soil sandy material	**None Detected**	Cellulose 2%	Binder/Filler, Mineral Grains

Lab ID: 230776902 **Client ID:** BED0024-19

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Brown soil sandy material	**None Detected**	Cellulose 2%	Binder/Filler, Mineral Grains

Analyzed by: Dang Nguyen **Signature:** **Date:** 04-10-2023

Reviewed by: Zubair Ahmed **Signature:** **Date:** 04-10-2023

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Orange Coast Analytical, Inc.
3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (480) 736-0960 Fax (480) 736-0970

LABORATORY REPORT FORM

ORANGE COAST ANALYTICAL, INC.

3002 Dow Suite 532 Tustin, CA 92780

(714) 832-0064

Laboratory Certification (ELAP) No.:2576
Expiration Date: 2023
Los Angeles County Sanitation District Lab ID# 10206

Laboratory Director's Name:
Mark Noorani

Client:	American Environmental Testing Laboratory
Laboratory Reference:	AETL 27834
Project Name:	BED0024
Project Number:	BED0024
Date Received:	4/7/2023
Date Reported:	4/12/2023
Chain of Custody Received:	☑
Analytical Method:	6020,

Mark Noorani, Laboratory Director

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Rev1.0

Ms. Hailley Coleman
American Environmental Testing Laboratory
2840 Naomi St
Burbank, CA, 91504

Lab Reference #: AETL 27834
Project Name: BED0024
Project #: BED0024

Case Narrative

Sample Receipt:

All samples on the Chain of Custody were received by OCA at 1ºC, on ice.

Holding Times:

All samples were analyzed within required holding times unless otherwise noted in the data qualifier section of the report.

Analytical Methods:

Sample analysis was performed following the analytical methods listed on the cover page.

Data Qualifiers:

Within this report, data qualifiers may have been assigned to clarify deviations in common laboratory procedures or any divergence from laboratory QA/QC criteria. If a data qualifier has been used, it will appear in the back of the report along with its description. All method QA/QC criteria have been met unless otherwise noted in the data qualifier section.

Definition of Terms:

The definitions of common terms and acronyms used in the report have been placed at the back of the report to assist data users.

Comments:

None

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Ms. Hailley Coleman
American Environmental Testing Laboratory
2840 Naomi St
Burbank, CA, 91504

Lab Reference #: AETL 27834
Project Name: BED0024
Project #: BED0024

Client Sample Summary

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0024-01	27834-001	4/7/2023	4/6/2023	Soil
BED0024-04	27834-002	4/7/2023	4/6/2023	Soil
BED0024-07	27834-003	4/7/2023	4/6/2023	Soil
BED0024-10	27834-004	4/7/2023	4/6/2023	Soil
BED0024-13	27834-005	4/7/2023	4/6/2023	Soil
BED0024-16	27834-006	4/7/2023	4/6/2023	Soil
BED0024-19	27834-007	4/7/2023	4/6/2023	Soil
BED0024-22	27834-008	4/7/2023	4/6/2023	Soil

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Ms. Hailley Coleman
American Environmental Testing Laboratory
2840 Naomi St
Burbank, CA, 91504

Lab Reference #: AETL 27834
Project Name: BED0024
Project #: BED0024

Metals

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0024-01	27834-001	4/7/2023 10:50	4/6/2023 7:09	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	6.3	mg/kg	04/11/23 09:00	04/12/23 09:42	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0024-04	27834-002	4/7/2023 10:50	4/6/2023 7:26	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	11	mg/kg	04/11/23 09:00	04/12/23 09:45	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0024-07	27834-003	4/7/2023 10:50	4/6/2023 8:09	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	4.7	mg/kg	04/11/23 09:00	04/12/23 09:54	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0024-10	27834-004	4/7/2023 10:50	4/6/2023 9:07	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	6.7	mg/kg	04/11/23 09:00	04/12/23 09:57	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0024-13	27834-005	4/7/2023 10:50	4/6/2023 9:22	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	4.0	mg/kg	04/11/23 09:00	04/12/23 10:01	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0024-16	27834-006	4/7/2023 10:50	4/6/2023 8:47	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	5.6	mg/kg	04/11/23 09:00	04/12/23 10:04	--	1

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Ms. Hailley Coleman
American Environmental Testing Laboratory
2840 Naomi St
Burbank, CA, 91504

Lab Reference #: AETL 27834
Project Name: BED0024
Project #: BED0024

Metals

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0024-19	27834-007	4/7/2023 10:50	4/6/2023 8:27	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	45	mg/kg	04/11/23 09:00	04/12/23 10:07	--	1

BED0024-22	27834-008	4/7/2023 10:50	4/6/2023 9:39	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	5.3	mg/kg	04/11/23 09:00	04/12/23 10:10	--	1

Method Blank						Soil	
MB ID	ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
MBKL0411232	Arsenic	6020	<1.0	mg/kg	04/11/23 09:00	04/12/23 09:17	--	1

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QA/QC Report
for
Metals

Reference #: AETL 27834 Reporting units: ppm

Matrix Spike (MS) / Matrix Spike Duplicate (MSD) **6020**

Laboratory Sample #: 27831-021 **Date of Extraction:** 04/11/23 09:00

Analyte	MS Date of Analysis	MSD Date of Analysis	R1	SPC CONC	MS	MSD	% MS	% MSD	RPD	ACP %MS	ACP RPD	Qualifiers
Arsenic	04/12/23 09:30	04/12/23 09:33	1.80	20.0	22.7	22.1	105	102	3	75-125	20	--

Laboratory Control Spike (LCS) / Laboratory Control Spike Duplicate (LCSD) **6020**

Laboratory Sample #: KL0411232 **Date of Extraction:** 04/11/23 09:00

Analyte	LCS Date of Analysis	LCSD Date of Analysis		SPC CONC	LCS	LCSD	% LCS	% LCSD	RPD	ACP %LCS	ACP RPD	Qualifiers
Arsenic	04/12/23 09:20	04/12/23 09:24	--	20.0	21.7	21.9	109	109	1	80-120	20	--

Definition of terms:

R	Result of unspiked laboratory sample used for matrix spike determination.
SP CONC (or Spike Conc.)	Spike concentration added to sample or blank
MS	Matrix Spike sample result
MSD	Matrix Spike Duplicate sample result
%MS	Percent recovery of MS: {(MS-R1) / SP CONC} x100
%MSD	Percent recovery of MSD: {(MSD-R1) / SP CONC} x 100
RPD (for MS/MSD)	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2
LCS	Laboratory Control Sample result
LCSD	Laboratory Control Sample Duplicate result
%LCS	Percent recovery of LCS: {(LCS) / SP CONC} x100
%LCSD	Percent recovery of LCSD: {(LCSD) / SP CONC} x 100
RPD (for LCS/LCSD)	Relative Percent Difference: {(LCS-LCSD) / (LCS+LCSD)} x 100 x 2
ACP %LCS	Acceptable percent recovery range for Laboratory Control Samples.
ACP %MS	Acceptable percent recovery range for Matrix Spike samples
ACP RPD	Acceptable Relative Percent Difference
D	Detectable, result must be greater than zero
Qual	A checked box indicates a data qualifier was utilized and/or required for this analyte see attached explanation.
ND	Analyte Not Detected

278834

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Telephone (888) 288-AETL • (818) 845-8200 • www.aetlab.com

SUBCONTRACT CHAIN of CUSTODY

Sending Laboratory:

AETL
AETL, LLC. 2840 N. Naomi Street
Burbank, CA 91504
Phone: 818-845-8200
Project Manager: Hailley Coleman
Email: hcoleman@aetlab.com

Subcontracted Laboratory:

Orange Coast Analytical. Inc.
3002 Dow Ave., Ste. 532
Tustin, CA 92780
Phone: (714) 832-0064
Fax:

Work Order: BED0024 PO #SUB-35271

	Analysis	Due	Expires	Comments
1	**Sample ID: BED0024-01** ***Soil*** ***Sampled: 04/06/2023 07:09***			4-DAY TAT
	6020-As (Arsenic, total by ICP/MS)	04/13/2023	10/03/2023 07:09	
	Containers Supplied:			
2	**Sample ID: BED0024-04** ***Soil*** ***Sampled: 04/06/2023 07:26***			
	6020-As (Arsenic, total by ICP/MS)	04/13/2023	10/03/2023 07:26	
	Containers Supplied:			
3	**Sample ID: BED0024-07** ***Soil*** ***Sampled: 04/06/2023 08:09***			
	6020-As (Arsenic, total by ICP/MS)	04/13/2023	10/03/2023 08:09	
	Containers Supplied:			
4	**Sample ID: BED0024-10** ***Soil*** ***Sampled: 04/06/2023 09:07***			
	6020-As (Arsenic, total by ICP/MS)	04/13/2023	10/03/2023 09:07	
	Containers Supplied:			
5	**Sample ID: BED0024-13** ***Soil*** ***Sampled: 04/06/2023 09:22***			
	6020-As (Arsenic, total by ICP/MS)	04/13/2023	10/03/2023 09:22	

Approved by: HAILLEY COLEMAN — 4/6/23
AETL Project Manager — Date

Released By AETL Sample Control	Date 1050	Received By Courier	Date
Released By Courier	Date 4-7-23	Received By Subcontract Laboratory OCACA	Date 4/7/23 1105

on ice @ 1°C IR#

27834

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Telephone (888) 288-AETL • (818) 845-8200 • www.aetlab.com

SUBCONTRACT CHAIN of CUSTODY
(Continued)

Work Order: BED0024 (Continued)

Analysis	Due	Expires	Comments
Containers Supplied:			
Sample ID: BED0024-16 ***Soil*** ***Sampled: 04/06/2023 08:47***			
6020-As (Arsenic, total by ICP/MS)	04/13/2023	10/03/2023 08:47	
Containers Supplied:			
Sample ID: BED0024-19 ***Soil*** ***Sampled: 04/06/2023 08:27***			
6020-As (Arsenic, total by ICP/MS)	04/13/2023	10/03/2023 08:27	
Containers Supplied:			
Sample ID: BED0024-22 ***Soil*** ***Sampled: 04/06/2023 09:39***			
6020-As (Arsenic, total by ICP/MS)	04/13/2023	10/03/2023 09:39	
Containers Supplied:			

Approved by: _____ _____
AETL Project Manager — Date

Released By AETL Sample Control	Date	Received By Courier	Date
Released By Courier	Date	Received By Subcontract Laboratory	Date
	4-7-23 1050	OCAEA	4/7/23 10

Sample Receipt Report

Laboratory Reference: AETL 27834 Logged in by: MM

Received:	04/07/23 10:50	Company Name:	American Environmental Testing Labo
Method of Shipment:	Hand Delivered	Project Manager:	Ms. Hailley Coleman
Shipping Container:	Cooler	Project Name:	BED0024
# Shipping Containers:	1	Project #:	BED0024

Sample Quantity
8 Soil

Chain of Custody		Complete ☑	Incomplete ☐	None ☐
Samples On Ice		Yes, Wet ☑	Yes, Blue ☐	No ☐
Observed Temp. (°C):	1	Thermometer ID: IR#3	Adjusted Temp.:	1+(-0)=1
Shipping Intact		Yes ☐	N/A ☑	No ☐
Shipping Custody Seals Intact		Yes ☐	N/A ☑	No ☐
Samples Intact		Yes ☑		No ☐
Sample Custody Seals Intact		Yes ☐	N/A ☑	No ☐
Custody Seals Signed & Dated		Yes ☐	N/A ☑	No ☐
Proper Test Containers		Yes ☑		No ☐
Proper Test Preservations		Yes ☑		No ☐
Samples Within Hold Times		Yes ☑		No ☐
VOAs Have Zero Headspace		Yes ☐	N/A ☑	No ☐
Sample Labels		Complete ☑	Incomplete ☐	None ☐
Sample Information Matches COC		Yes ☑	N/A ☐	No ☐

Notes

Client Notified _____ By _____ On _____

April 12, 2023

Hailley Coleman
American Environmental Testing Laboratory, Inc.
2834 N. Naomi Street
Burbank, CA 91504

TEL: (818) 845-8200
FAX:

Workorder No.: N055881

RE: BED0024

Attention: Hailley Coleman

Enclosed are the results for sample(s) received on April 07, 2023 by ASSET Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562) 219-7435 if I can be of further assistance to your company.

Sincerely,



Ferdinand Paul Lugtu
Laboratory Director

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CLIENT: American Environmental Testing Laborator
Project: BED0024
Lab Order: N055881

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

All sample containers were received intact with proper chain of custody documentation.

Information on sample receipt conditions including discrepancies can be found in attached Sample Receipt Checklist Form.

Cooler temperature and sample preservation were verified upon receipt of samples if applicable.

Samples were analyzed within method holding time.

CLIENT: American Environmental Testing Laborator
Project: BED0024
Lab Order: N055881
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N055881-001A	BED0024-16	Soil	4/6/2023 8:47:00 AM	4/7/2023	4/12/2023
N055881-002A	BED0024-19	Soil	4/6/2023 8:27:00 AM	4/7/2023	4/12/2023

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BED0024-16
Lab Order:	N055881		
Project:	BED0024	**Collection Date:**	4/6/2023 8:47:00 AM
Lab ID:	N055881-001	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC						
EPA 3060A				**EPA 7199**		
RunID: CA01638-IC01_230411A	QC Batch: 99076			PrepDate:	4/10/2023	Analyst: **CR**
Hexavalent Chromium	ND	0.20		mg/Kg	1	4/11/2023 08:48 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BED0024-19
Lab Order:	N055881		
Project:	BED0024	**Collection Date:**	4/6/2023 8:27:00 AM
Lab ID:	N055881-002	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC						
EPA 3060A				**EPA 7199**		
RunID: CA01638-IC01_230411A	QC Batch: 99076			PrepDate:	4/10/2023	Analyst: **CR**
Hexavalent Chromium	ND	0.20		mg/Kg	1	4/11/2023 09:11 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: American Environmental Testing Laboratory, Inc.
Work Order: N055881
Project: BED0024

ANALYTICAL QC SUMMARY REPORT

TestCode: CA_7199_S

Sample ID: **LCS-99076**	SampType: **LCS**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/10/2023**	RunNo: **171275**
Client ID: **LCSS**	Batch ID: **99076**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/11/2023**	SeqNo: **5147060**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	3.978	0.20	4.000	0	99.4	80	120				

Sample ID: **MB-99076**	SampType: **MBLK**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/10/2023**	RunNo: **171275**
Client ID: **PBS**	Batch ID: **99076**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/11/2023**	SeqNo: **5147061**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20									

Sample ID: **N055842-001A-REP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/10/2023**	RunNo: **171275**
Client ID: **ZZZZZZ**	Batch ID: **99076**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/11/2023**	SeqNo: **5147063**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20						0	0	20	

Sample ID: **N055842-001A-DUP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/10/2023**	RunNo: **171275**
Client ID: **ZZZZZZ**	Batch ID: **99076**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/11/2023**	SeqNo: **5147064**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20						0	0	20	

Sample ID: **N055842-001A-PS**	SampType: **MS**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date:	RunNo: **171275**
Client ID: **ZZZZZZ**	Batch ID: **99076**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/11/2023**	SeqNo: **5147065**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.007	0.20	3.993	0	100	75	125				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

ANALYTICAL QC SUMMARY REPORT

TestCode: CA_7199_S

Sample ID: **N055842-001A-MS**	SampType: **MS**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/10/2023**	RunNo: **171275**
Client ID: **ZZZZZZ**	Batch ID: **99076**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/11/2023**	SeqNo: **5147066**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	3.983	0.20	3.998	0	99.6	75	125				

Sample ID: **N055842-001A-MSD**	SampType: **MSD**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/10/2023**	RunNo: **171275**
Client ID: **ZZZZZZ**	Batch ID: **99076**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/11/2023**	SeqNo: **5147067**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.063	0.20	3.993	0	102	75	125	3.983	2.00	20	

Sample ID: **N055842-001A-MS-I**	SampType: **MS**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/10/2023**	RunNo: **171275**
Client ID: **ZZZZZZ**	Batch ID: **99076**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/11/2023**	SeqNo: **5147069**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	511.624	10	649.1	0	78.8	75	125				

Sample ID: **N055842-002A-REP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/10/2023**	RunNo: **171275**
Client ID: **ZZZZZZ**	Batch ID: **99076**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/11/2023**	SeqNo: **5147073**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20						0	0	20	

Sample ID: **N055842-003A-REP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/10/2023**	RunNo: **171275**
Client ID: **ZZZZZZ**	Batch ID: **99076**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/11/2023**	SeqNo: **5147075**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20						0	0	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

Sample ID: **N055842-004A-REP** SampType: **DUP** TestCode: **CA_7199_S** Units: **mg/Kg** Prep Date: **4/10/2023** RunNo: **171275**
Client ID: **ZZZZZZ** Batch ID: **99076** TestNo: **EPA 7199** **EPA 3060A** Analysis Date: **4/11/2023** SeqNo: **5147077**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.065	0.20						0.06965	0	20	

Sample ID: **N055842-005A-REP** SampType: **DUP** TestCode: **CA_7199_S** Units: **mg/Kg** Prep Date: **4/10/2023** RunNo: **171275**
Client ID: **ZZZZZZ** Batch ID: **99076** TestNo: **EPA 7199** **EPA 3060A** Analysis Date: **4/11/2023** SeqNo: **5147079**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20						0	0	20	

Sample ID: **N055842-006A-REP** SampType: **DUP** TestCode: **CA_7199_S** Units: **mg/Kg** Prep Date: **4/10/2023** RunNo: **171275**
Client ID: **ZZZZZZ** Batch ID: **99076** TestNo: **EPA 7199** **EPA 3060A** Analysis Date: **4/11/2023** SeqNo: **5147081**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20						0	0	20	

Sample ID: **N055842-007A-REP** SampType: **DUP** TestCode: **CA_7199_S** Units: **mg/Kg** Prep Date: **4/10/2023** RunNo: **171275**
Client ID: **ZZZZZZ** Batch ID: **99076** TestNo: **EPA 7199** **EPA 3060A** Analysis Date: **4/11/2023** SeqNo: **5147085**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20						0	0	20	

Sample ID: **N055871-005B-REP** SampType: **DUP** TestCode: **CA_7199_S** Units: **mg/Kg** Prep Date: **4/10/2023** RunNo: **171275**
Client ID: **ZZZZZZ** Batch ID: **99076** TestNo: **EPA 7199** **EPA 3060A** Analysis Date: **4/11/2023** SeqNo: **5147087**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20						0	0	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

ANALYTICAL QC SUMMARY REPORT

TestCode: CA_7199_S

Sample ID: **N055871-010B-REP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/10/2023**	RunNo: **171275**
Client ID: **ZZZZZZ**	Batch ID: **99076**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/11/2023**	SeqNo: **5147089**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.075	0.20						0.07652	0	20	

Sample ID: **N055871-015B-REP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/10/2023**	RunNo: **171275**
Client ID: **ZZZZZZ**	Batch ID: **99076**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/11/2023**	SeqNo: **5147091**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.102	0.20						0.1055	0	20	

Sample ID: **N055871-020B-REP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/10/2023**	RunNo: **171275**
Client ID: **ZZZZZZ**	Batch ID: **99076**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/11/2023**	SeqNo: **5147093**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.082	0.20						0.07957	0	20	

Sample ID: **N055871-025B-REP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/10/2023**	RunNo: **171275**
Client ID: **ZZZZZZ**	Batch ID: **99076**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/11/2023**	SeqNo: **5147097**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.152	0.20						0.1449	0	20	

Sample ID: **N055871-030B-REP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/10/2023**	RunNo: **171275**
Client ID: **ZZZZZZ**	Batch ID: **99076**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/11/2023**	SeqNo: **5147099**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20						0	0	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

ANALYTICAL QC SUMMARY REPORT

TestCode: CA_7199_S

Sample ID: **N055881-001A-REP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/10/2023**	RunNo: **171275**
Client ID: **ZZZZZZ**	Batch ID: **99076**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/11/2023**	SeqNo: **5147101**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20						0	0	20	

Sample ID: **N055881-002A-REP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/10/2023**	RunNo: **171275**
Client ID: **ZZZZZZ**	Batch ID: **99076**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/11/2023**	SeqNo: **5147103**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.093	0.20						0	0	20	

Sample ID: **N055887-001A-REP**	SampType: **DUP**	TestCode: **CA_7199_S**	Units: **mg/Kg**	Prep Date: **4/10/2023**	RunNo: **171275**
Client ID: **ZZZZZZ**	Batch ID: **99076**	TestNo: **EPA 7199**	**EPA 3060A**	Analysis Date: **4/11/2023**	SeqNo: **5147105**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20						0	0	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

N055881

AMERICAN ENVIRONMENTAL TESTING LABORATORY, LLC
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SUBCONTRACT CHAIN of CUSTODY

Sending Laboratory:

AETL
AETL, LLC. 2840 N. Naomi Street
Burbank, CA 91504
Phone: 818-845-8200
Project Manager: Hailley Coleman
Email: hcoleman@aetlab.com

Subcontracted Laboratory:

ASSET Laboratories
11110 Artesia Blvd.
Cerritos, CA 90703
Phone: (702)307-2659
Fax: (562)219-7435

Work Order: BED0024 PO #SUB-35272

Analysis	Due	Expires	Comments
Sample ID: BED0024-16 ***Soil*** ***Sampled: 04/06/2023 08:47***			4-DAY TAT
7199 (Chromium Hexavalent by Ion Chromatography)	04/13/2023	05/04/2023 08:47	N055881-001
Containers Supplied:			
Sample ID: BED0024-19 ***Soil*** ***Sampled: 04/06/2023 08:27***			
7199 (Chromium Hexavalent by Ion Chromatography)	04/13/2023	05/04/2023 08:27	
Containers Supplied:			-002

Approved by: HAILLEY COLEMAN — AETL Project Manager — 4/6/23 — Date

Released By AETL Sample Control	Date	Received By Courier	Date
	04/07/23 1500		4/7/23 15:00
Released By Courier	Date	Received By Subcontract Laboratory	Date

IR#1 5.2°C

ASSET Laboratories

Please review the checklist below. Any NO signifies non-compliance. Any non-compliance will be noted and must be understood as having an impact on the quality of the data. All tests will be performed as requested regardless of any compliance issues.

If you have any questions or further instruction, please contact our Project Coordinator at (702) 307-2659.

Cooler Received/Opened On:	4/7/2023	Workorder:	N055881
Rep sample Temp (Deg C):	5.2	IR Gun ID:	1
Temp Blank:	☐ Yes ☑ No		
Carrier name:	Walk-In		
Last 4 digits of Tracking No.:	NA	Packing Material Used:	None
Cooling process:	☑ Ice ☐ Ice Pack ☐ Dry Ice ☐ Other ☐ None		

Sample Receipt Checklist

1. Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
2. Custody seals intact, signed, dated on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
3. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
4. Chain of custody present?	Yes ☑	No ☐	
5. Sampler's name present in COC?	Yes ☐	No ☑	
6. Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
7. Chain of custody agrees with sample labels?	Yes ☑	No ☐	
8. Samples in proper container/bottle?	Yes ☑	No ☐	
9. Sample containers intact?	Yes ☑	No ☐	
10. Sufficient sample volume for indicated test?	Yes ☑	No ☐	
11. All samples received within holding time?	Yes ☑	No ☐	
12. Temperature of rep sample or Temp Blank within acceptable limit?	Yes ☑	No ☐	NA ☐
13. Water - VOA vials have zero headspace?	Yes ☐	No ☐	NA ☑
14. Water - pH acceptable upon receipt? Example: pH > 12 for (CN,S); pH<2 for Metals	Yes ☐	No ☐	NA ☑
15. Did the bottle labels indicate correct preservatives used?	Yes ☐	No ☐	NA ☑
16. Were there Non-Conformance issues at login?	Yes ☑	No ☐	NA ☐
Was Client notified?	Yes ☐	No ☐	NA ☑

Comments:

Checklist Completed By: FOR AW 4/10/2023

Reviewed By:

ASSET Laboratories

WORK ORDER Summary

10-Apr-23

WorkOrder: N055881

Client ID: AETL01

Project: BED0024 **QC Level:** RTNE **Date Received:** 4/7/2023 3:00 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N055881-001A	BED0024-16	4/6/2023 8:47:00 AM	4/13/2023	Soil	EPA 3060A	Prep for Hexavalent Chromium	☐	☐	☐	WS-CA
			4/13/2023		EPA 7199	Hexavalent Chromium by IC	☐	☐	☐	WS-CA
N055881-002A	BED0024-19	4/6/2023 8:27:00 AM	4/13/2023		EPA 3060A	Prep for Hexavalent Chromium	☐	☐	☐	WS-CA
			4/13/2023		EPA 7199	Hexavalent Chromium by IC	☐	☐	☐	WS-CA
N055881-003A	FOLDER	4/13/2023	4/13/2023		Folder	Folder	☐	☐	☐	LAB
			4/13/2023		Folder	Folder	☐	☐	☐	LAB

AMERICAN ENVIRONMENTAL TESTING LABORATORY, LLC
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April 26, 2023

AETL Job No: BED0024.02
Received Date: 04/06/2023
Project Number: [none]

Parsons
100 West Walnut Street
Pasadena, CA 91124
Telephone: (626) 440-6200

Attention: Justin King

Project Name: Canoga Park High School
Site: 6850 CA-27
Canoga Park, CA 91303

Enclosed please find the results of analyses for samples which were analyzed as specified on the attached chain of custody. If you have any questions concerning this report, please do not hesitate to call.

Checked By: Hailley Coleman
Hailley Coleman
Project Manager

Approved By: Joe Sevrean
Joe Sevrean
Laboratory Director

Table of Contents

Client Project Name: General Soil Testing Project Number: [none]
Work Order Number: BED0024

1 Cover Letter 1
2 Sample Condition on Receipt 3
3 Chain of Custody 4
4 Cooler Receipt Forms 6
5 Case Narrative 7
6 Samples Received 8
7 Positive Hits Summary 9
8 Analytical Results 10
9 Qualifiers and Definitions 11
10 Sub Contracted Analysis 13

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Parsons	AETL Job Number:	BED0024	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/26/2023 10:39

Sample Condition on Receipt

Cooler ID: Default Cooler **Temperature: 5.9 °C**

Are the COCs Correct	Y		
Labels Legible	Y	Containers In Good Condition	Y
COC/Labels Agree	Y	Samples Preserved Properly	Y
Sufficient Sample Volume	Y	Sufficient Holding Time for all Tests	Y
Sample Labels intact	Y	Received on Ice	Y

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

American Environmental Testing Laboratory Inc.

2834 & 2908 North Naomi Street, Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

CHAIN OF CUSTODY RECORD

108478

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut Street Pasadena, CA 91124
PHONE / FAX: (310) 809-5793
PROJECT NAME: Canoga Park Highschool
PROJECT #:
SITE NAME AND ADDRESS: 6850 CA-27, Canoga Park, CA 91303
PO #:

AETL JOB No. BE00024

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1	SB-48-D0.5	BE00024-01	4/6/2023	0709	Soil	1 x 90z	NONE
2	SB-48-D2.0	-02		0714			
3	SB-48-D3.0	-03		0718			
4	SB-49-D0.5	-04		0726			
5	SB-49-D2.0	-05		0729			
6	SB-49-D3.0	-06		0732			
7	SB-17-D0.5	-07		0809			
8	SB-17-D2.0	-08		0812			
9	SB-17-D3.0	-09		0815			
10	SB-32-D0.5	-10		0907			
11	SB-32-D2.0	-11		0910			
12	SB-32-D3.0	-12		0913			
13	SB-28-D0.5	-13		0922			
14	SB-28-D2.0	-14		0925			
15	SB-28-D3.0	-15		0929			

ANALYSIS REQUESTED

	Lead (6010B)	Arsenic (6020)	OCPs (8081A)	STLC-Pb	TCLP-Pb	TEST INSTRUCTIONS & COMMENTS
1	X	X	X			
2						Hold
3						Hold
4	X	X	X			
5						Hold
6						Hold
7	X	X	X			
8						Hold
9						Hold
10	X	X	X	X		
11			X			Hold
12						Hold
13	X	X	X	X	X	
14	X					Hold
15						Hold

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y/ N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

TURN AROUND TIME

☑ NORMAL ☐ RUSH
☐ SAME DAY
☐ NEXT DAY
☐ 2 DAYS
☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY
☑ PDF
☐ GEOTRACKER (GLOBAL ID) _____
☐ OTHER (PLEASE SPECIFY) _____

	RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature	E. Salazar		
Printed Name	Edward Dabays		
Date / Time	4/6/2023 1140		

	RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: 3.
Signature			Cristal Avila
Printed Name			Cristal Avila
Date / Time			4/6/23 11:40

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

American Environmental Testing Laboratory Inc.

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CHAIN OF CUSTODY RECORD

108482

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut Street Pasadena, CA 91124
PHONE / FAX: (310) 809-5793
PROJECT NAME: Canoga Park High School
PROJECT #:
SITE NAME AND ADDRESS: 6850 CA-27, Canoga Park, CA 91303
PO #:

AETL JOB No. BE00024

Page 2 of 2

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1	SB-31-D0.5	BE00024-16	4/6/2023	0847	Soil	1x4oz + 2x2oz	NONE
2	SB-31-D2.0	-17		0853		1x4oz	
3	SB-31-D3.0	-18		0857		1x4oz	
4	SB-20-D0.5	-19		0827		1x4oz + 2x2oz	
5	SB-20-D2.0	-20		0830		1x4oz	
6	SB-20-D3.0	-21		0834			
7	SB-30-D0.5	-22		0939			
8	SB-30-D2.0	-23		0943			
9							
10							
11							
12							
13							
14							
15							

E. Galvan

ANALYSIS REQUESTED

	Lead (6010B)	Arsenic (6020)	OCPs (8081A)	PCBs (8082)	Asbestos (PLM)	PAHs (8270C)	Cr(VI) (7199)	Cd+Ni (6010B)	Mercury (7470A)
1	X	X	X	X	X	X	X	X	X
2									
3									
4	X	X	X	X	X	X	X	X	X
5		X							
6									
7	X	X	X						
8									
9									
10									
11									
12									
13									
14									
15									

TEST INSTRUCTIONS & COMMENTS

2	Hold
3	Hold
4	14 D.
5	Hold
6	Hold
8	Hold

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y / N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

TURN AROUND TIME

☑ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY ☑ PDF ☐ GEOTRACKER (GLOBAL ID) _____ ☐ OTHER (PLEASE SPECIFY) _____

	1.	2.	3.
RELINQUISHED BY SAMPLER:		RELINQUISHED BY:	RELINQUISHED BY:
Signature:	E. Galvan	Signature:	Signature:
Printed Name:	Edward Dabbs	Printed Name:	Printed Name:
Date:	4/6/2023	Date:	Date:
Time:	1140	Time:	Time:
RECEIVED BY:		RECEIVED BY:	RECEIVED BY LABORATORY: AETL
Signature:		Signature:	Signature:
Printed Name:		Printed Name:	Printed Name:
Date:		Date:	Date: 4/6/23
Time:		Time:	Time: 11.40

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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A KYZER LABS COMPANY

COOLER RECEIPT FORM

Client Name: Parsons

Project Name: Canoga Park High School Project No.:

AETL Job Number: BED0024

Date Received: 04-06-23 Received by: Chantal A.

Carrier: ☑ AETL Courier ☐ Client ☐ GSL ☐ FedEx ☐ UPS
☐Others:

Samples were received in: ☑ Cooler (__2_____) ☐ Other (Specify)**:**

Sample Container Temperature: __5.9__ °C IR Gun S/N: 51941911MV

Type of sample containers: ☐ VOA, ☐ Glass bottles, ☑Wide mouth jars, ☐HDPE bottles, ☐ Metal sleeves, ☐ Acetate sleeves, ☐ 5035 Kit: ☐ AETL or ☐ Client, ☐ Tedlar Bags, Summa Canister: ☐ 6L, ☐ 3L, ☐ 1L, Others (Specify): _____

How are samples preserved: ☐ None, ☑ Ice, ☐ Blue Ice, ☐ Dry Ice
☑ None, ☐ HNO_3, ☐ NaOH, ☐ ZnOAc, ☐ HCl, ☐ $Na_2S_2O_3$, ☐ MeOH, ☐ $NaHSO_4$
☐ Other (Specify):

	Yes	No	N/A	Note or Comment
1. Are the COCs Correct?	✔			
2. Are Sample labels legible & indelible ink?	✔			
3. Do samples match the COC?	✔			
4. Are the required analyses clear?	✔			
5. Is there enough samples for required analysis?	✔			
6. Does cooler or samples have custody seal(s)?			✔	
7. Are sample containers in good condition?	✔			
8. Are samples preserved?	✔			
9. Are samples preserved properly for the intended analysis?	✔			
10. Are the VOAs free of headspace? See footnote.			✔	
11. Are the jars free of headspace?			✔	

* = see note below. N/A = Not Applicable

PLEASE NOTE ALL SAMPLES WILL BE DISPOSED OF 30 DAYS AFTER RECEIVING DATE. IF AETL IS INFORMED OTHERWISE, THERE WILL BE A STORAGE CHARGE PER SAMPLE PER MONTH FOR ANY SAMPLE HELD BEYOND 30 DAYS.

◯ Example maximum headspace bubble size; acceptance criteria not to exceed 5-6 mm in diameter.

For headspace bubbles exceeding 6 mm in diameter, sample receiving will tag the VOA and notify the Project Manager. The Project Manager will contact client for Analyze or Resample instructions.

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A KYZER LABS COMPANY

Parsons	AETL Job Number:	BED0024	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/26/2023 10:39

Case Narrative

The following "Sample Received" Section summarizes the samples received and associated analyses requested as specified on the enclosed chain of custody.

Results as reported by the laboratory apply only to 1) the items tested, 2) as the samples are received, and 3) the accuracy of information provided. Information supplied by the customer that may affect validity of results and may be contained in this report include Project Name/Number, Site Location, Sample Locations, Sampling Dates/Times, Sample ID, Sample Preservation, Sample Matrix, Sample Properties, Field Blanks, Field Duplicates, Field Spikes, and Site Historical Data.

Accreditation applies only to the test methods listed on each scope of accreditation held by the laboratory; certifications held by the laboratory may not apply to results supplied in this report.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

Qualifiers are noted in the report.

The samples were subcontracted to AIH Laboratory for EPA-600R-93/116. Please see attached report for results.

The samples were subcontracted to Orange Coast Analytical for EPA 6020-As. Please see attached report for results.

The samples were subcontracted to Asset Laboratories for EPA 7199. Please see attached report for results.

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

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Parsons	AETL Job Number:	BED0024	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/26/2023 10:39	

Samples Received

AETL received the following samples on 04/06/2023 with the following specifications

Client ID			Sample Date
SB-20-D2.0			04/6/2023 8:30
Lab ID	**Matrix**		**Quantity of Containers**
BED0024-20	Soil		1

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Total Number of Samples received: 1

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Parsons	AETL Job Number:	BED0024	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/26/2023 10:39

Positive Hits Summary

Lab ID	Client ID					Sampled
Method	Analyte	Result	Qualifier	Unit		Analyzed

No positive results reported

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Parsons	AETL Job Number:	BED0024	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/26/2023 10:39

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Parsons	AETL Job Number:	BED0024	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/26/2023 10:39

Qualifiers and Definitions

Item	Definitions
% wt	Percent Weight
%REC	Percent Recovery
°F	Degrees Fahrenheit
AETL	American Environmental Testing Laboratory, LLC
C	Carbon
CARB	California Air Resources Board
COC	Chain of Custody
Cresols	3-methylphenol/4-methylphenol coelute and cannot be chromatographically separated. Due to this coeluting isomer pair phenomenon, the laboratory uses a single cresol (4-methylphenol) as calibration standard for 3-methylphenol/4-methylphenol.
CRM	Certified Reference Material
DPD	Department of Planning and Development
DRO	Diesel Range Organics
Dup	Duplicate
ELAP	Environmental Laboratory Accreditation Program
EPA	Environmental Protection Agency
GC/FID	Gas Chromatography Flame Ionization Detection
GRO	Gasoline Range Organics
HC	Hydrocarbon
HEM	Hexane Extractable Material
HMU	Hazardous Material Unit
ICP/MS	Inductively Coupled Plasma Mass Spectrometry
LACSD	Los Angeles County Sanitation Districts
LCS	Laboratory Control Sample - A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes.
LCSD	Laboratory Control Sample Duplicate - A replicate of Laboratory Control Sample.
LOQ	Limit of Quantitation
MDL	Method Detection Limit - The minimum measured concentration of a substance that can be reported with 99% confidence. MDL is statistically derived number which is specific for each instrument, each method and each compound.
mg/kg	Miligrams per Kilogram
mg/L	Miligrams per Liter
ml/L/hr	Milliliter per Liter per Hour
MRO	Motor oil Range Organics
MS	Matrix Spike - A sample prepared, taken through all sample preparation and analytical steps of the procedure and analyzed as an independent test results.
MSD	Matrix Spike Duplicate - A replicate of Matrix Spike Sample.
N	No
ND	Analyte is not detected below Method Detection Limit.
ng/m3	Nanograms per cubic meter

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Parsons	AETL Job Number:	BED0024	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/26/2023 10:39

NIOSH	National Institute for Occupational Safety and Health
nL/L	Nanoliters per Liter
NTU	Nephelometric Turbidity Units
Ohm-cm	Ohms per centimeter
ORO	Oil Range Organics
OSHA	Occupational Safety and Health Administration
PCB	Polychlorinated Biphenyl
PSU	Practical Salinity Unit
RL	Reporting Limit - The lowest concentration at which an analyte can be detected in a sample and its concentration can be reported with a specified degree of confidence, accuracy and precision. For usage at AETL, RL is equivalant to LOQ.
RPD	Relative Percent Difference
SIM	Selective Ion Monitoring
SM	Standard Method
SPLP	Synthetic Precipitation Leaching Procedure
STLC	Soluble Threshold Limit Concentration
TCLP	Toxicity Characteristic Leaching Procedure
TPH	Total Petroleum Hydrocarbons
TTLC	Total Threshold Limit Concentrations
ug/kg	Micrograms per Kilogram
ug/L	Micrograms per Liter
ug/m3	Micrograms per cubic meter
WET	Waste Extraction Test
Y	Yes
ZHE	Zero Headspace Extraction

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

April 25, 2023

Hailley Coleman
American Environmental Testing Laboratory, Inc.
2834 N. Naomi Street
Burbank, CA 91504

TEL: (818) 845-8200
FAX:

Workorder No.: N056033

RE: BED0024

Attention: Hailley Coleman

Enclosed are the results for sample(s) received on April 18, 2023 by ASSET Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562) 219-7435 if I can be of further assistance to your company.

Sincerely,

for

Ferdinand Paul Lugtu
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and ASSET Laboratories - California.

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

All sample containers were received intact with proper chain of custody documentation.

Information on sample receipt conditions including discrepancies can be found in attached Sample Receipt Checklist Form.

Cooler temperature and sample preservation were verified upon receipt of samples if applicable.

Samples were analyzed within method holding time.

Analytical Comments for EPA 6020:

Matrix Spike (MS) is outside recovery criteria for Arsenic in QC sample N056032-001A-MS possibly due to matrix interference. The associated Laboratory Control Sample (LCS) recovery was acceptable.

ASSET Laboratories

Date: *25-Apr-23*

CLIENT: American Environmental Testing Laborator
Project: BED0024
Lab Order: N056033
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N056033-001A	BED0024-20	Soil	4/6/2023 8:30:00 AM	4/18/2023	4/25/2023

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BED0024-20
Lab Order:	N056033		
Project:	BED0024	**Collection Date:**	4/6/2023 8:30:00 AM
Lab ID:	N056033-001	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230420B	QC Batch: 99270			PrepDate:	4/19/2023	Analyst: **DJ**
Arsenic	20	0.50		mg/Kg	1	4/20/2023 03:34 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: American Environmental Testing Laboratory, Inc.
Work Order: N056033
Project: BED0024

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_S_PPM

Sample ID	MB-99270	SampType:	MBLK	TestCode:	6020_S_PPM	Units:	mg/Kg	Prep Date:	4/19/2023	RunNo:	171632
Client ID:	PBS	Batch ID:	99270	TestNo:	EPA 6020	EPA 3050B		Analysis Date:	4/20/2023	SeqNo:	5166757

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.50									

Sample ID	LCS-99270	SampType:	LCS	TestCode:	6020_S_PPM	Units:	mg/Kg	Prep Date:	4/19/2023	RunNo:	171632
Client ID:	LCSS	Batch ID:	99270	TestNo:	EPA 6020	EPA 3050B		Analysis Date:	4/20/2023	SeqNo:	5166758

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	5.125	0.50	5.000	0	102	85	115				

Sample ID	N056032-001A-MSD	SampType:	MSD	TestCode:	6020_S_PPM	Units:	mg/Kg	Prep Date:	4/19/2023	RunNo:	171632
Client ID:	ZZZZZZ	Batch ID:	99270	TestNo:	EPA 6020	EPA 3050B		Analysis Date:	4/20/2023	SeqNo:	5166763

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	41.435	0.50	4.998	37.37	81.4	75	125	41.03	0.979	20	

Sample ID	N056032-001A-MS	SampType:	MS	TestCode:	6020_S_PPM	Units:	mg/Kg	Prep Date:	4/19/2023	RunNo:	171632
Client ID:	ZZZZZZ	Batch ID:	99270	TestNo:	EPA 6020	EPA 3050B		Analysis Date:	4/20/2023	SeqNo:	5166785

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	41.032	0.50	4.995	37.37	73.4	75	125				S

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

N052023

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SUBCONTRACT CHAIN of CUSTODY

Sending Laboratory:

AETL
AETL, LLC. 2840 N. Naomi Street
Burbank, CA 91504
Phone: 818-845-8200

Project Manager: Hailley Coleman
Email: hcoleman@aetlab.com

Subcontracted Laboratory:

ASSET Laboratories
11110 Artesia Blvd.
Cerritos, CA 90703
Phone: (702)307-2659
Fax: (562)219-7435

Work Order: BED0024 PO#SUB-35305

Analysis	Due	Expires	Comments
~~**Sample ID: BED0024-16**~~ ***Soil*** ***Sampled: 04/06/2023 08:47***			5-DAY TAT
7199 (Chromium Hexavalent by Ion Chromatography)	04/13/2023	05/04/2023 08:47	
Containers Supplied:			
~~**Sample ID: BED0024-19**~~ ***Soil*** ***Sampled: 04/06/2023 08:27***			
7199 (Chromium Hexavalent by Ion Chromatography)	04/13/2023	05/04/2023 08:27	
Containers Supplied:			
Sample ID: BED0024-20 ***Soil*** ***Sampled: 04/06/2023 08:30***			N056033-001
6020-As (Arsenic, total by ICP/MS)	04/13/2023	10/03/2023 08:30	
Containers Supplied:			

Lab Verified
4.8°C JN#3
GCS #: 6285

Approved by: HAILLEY COLEMAN 4/18/23
AETL Project Manager — Date

Released By AETL Sample Control — Date 4/18/2023 1217

Received By Courier — Date 4/18/2023 1217

Released By Courier — Date 4/18/23 1800

Received By Subcontract Laboratory — Date 4/19/23 9:37am

CA: 5.8°C IR#1

ASSET Laboratories

Please review the checklist below. Any NO signifies non-compliance. Any non-compliance will be noted and must be understood as having an impact on the quality of the data. All tests will be performed as requested regardless of any compliance issues.

If you have any questions or further instruction, please contact our Project Coordinator at (702) 307-2659.

Cooler Received/Opened On:	4/18/2023	Workorder:	N056033
Rep sample Temp (Deg C):	5.8	IR Gun ID:	1

Temp Blank: ☐ Yes ☑ No

Carrier name: Walk-In

Last 4 digits of Tracking No.: NA Packing Material Used: None

Cooling process: ☑ Ice ☐ Ice Pack ☐ Dry Ice ☐ Other ☐ None

Sample Receipt Checklist

1. Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
2. Custody seals intact, signed, dated on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
3. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
4. Chain of custody present?	Yes ☑	No ☐	
5. Sampler's name present in COC?	Yes ☐	No ☑	
6. Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
7. Chain of custody agrees with sample labels?	Yes ☑	No ☐	
8. Samples in proper container/bottle?	Yes ☑	No ☐	
9. Sample containers intact?	Yes ☑	No ☐	
10. Sufficient sample volume for indicated test?	Yes ☑	No ☐	
11. All samples received within holding time?	Yes ☑	No ☐	
12. Temperature of rep sample or Temp Blank within acceptable limit?	Yes ☑	No ☐	NA ☐
13. Water - VOA vials have zero headspace?	Yes ☐	No ☐	NA ☑
14. Water - pH acceptable upon receipt? Example: pH > 12 for (CN,S); pH<2 for Metals	Yes ☐	No ☐	NA ☑
15. Did the bottle labels indicate correct preservatives used?	Yes ☐	No ☐	NA ☑
16. Were there Non-Conformance issues at login?	Yes ☑	No ☐	NA ☐
Was Client notified?	Yes ☐	No ☐	NA ☑

Comments: Received at Las Vegas Lab on 4/19/2023 at 4.8°C, IR#3, via GLS#6285.

Checklist Completed By: MR 4/20/2023

Reviewed By: [redacted]

ASSET Laboratories

WORK ORDER Summary

19-Apr-23

WorkOrder: N056033

Client ID: AETL01

Project: BED0024 **QC Level:** RTNE **Date Received:** 4/18/2023 12:17 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N056033-001A	BED0024-20	4/6/2023 8:30:00 AM	4/25/2023	Soil	EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			4/25/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N056033-002A	FOLDER	4/25/2023	4/25/2023		Folder	Folder	☐	☐	☐	LAB
			4/25/2023		Folder	Folder	☐	☐	☐	LAB

GLS.

800-322-5555
www.gls-us.com

Ship From
ASSET LABORATORIES
THAD MALIT
11110 ARTESIA BLVD. SUITE B
CERRITOS, CA 90703

Ship To
ASSET LABORATORIES
SAMPLE CONTROL-LV
3151 W. POST RD.,
LAS VEGAS, NV 89118

COD: $0.00
Weight: 0 lb(s)
Reference:

Delivery Instructions:
HOLD FOR PICKUP
Signature Type: STANDARD

Tracking #: 559226285

PDS

9:37 AM

LAS VEGAS

C89102A

84548915

LVS NV891-A 8

Print Date: 4/18/2023 5:23 PM

LABEL INSTRUCTIONS:

Do not copy or reprint this label for additional shipments - each package must have a unique barcode.
Step 1: Use the "Print Label" button on this page to print the shipping label on a laser or inkjet printer.
Step 2: Fold this page in half.
Step 3: Securely attach this label to your package and do not cover the barcode.

TERMS AND CONDITIONS:

By giving us your shipment to deliver, you agree to all of the General Logistics Systems US, Inc. (GLS) service terms & conditions including, but not limited to; limits of liability, declared value conditions, and claim procedures which are available on our website at www.gls-us.com.

4.8°C
ice # F

AMERICAN ENVIRONMENTAL TESTING LABORATORY, LLC
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May 09, 2023

AETL Job No: BED0024.03
Received Date: 04/06/2023
Project Number: [none]

Parsons
100 West Walnut Street
Pasadena, CA 91124
Telephone: (626) 440-6200

Attention: Justin King

Project Name: Canoga Park High School
Site: 6850 CA-27
Canoga Park, CA 91303

Enclosed please find the results of analyses for samples which were analyzed as specified on the attached chain of custody. If you have any questions concerning this report, please do not hesitate to call.

Checked By: Hailley Coleman
Project Manager

Approved By: Joe Sevrean
Laboratory Director

Table of Contents

Client Project Name: General Soil Testing Project Number: [none]
Work Order Number: BED0024

1 Cover Letter 1
2 Sample Condition on Receipt 3
3 Chain of Custody 4
4 Cooler Receipt Forms 6
5 Case Narrative 7
6 Samples Received 8
7 Positive Hits Summary 9
8 Analytical Results 10
9 Qualifiers and Definitions 11
10 Sub Contracted Analysis 13

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Parsons	AETL Job Number:	BED0024	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	05/09/2023 12:45

Sample Condition on Receipt

Cooler ID: Default Cooler **Temperature: 5.9 °C**

Are the COCs Correct	Y		
Labels Legible	Y	Containers In Good Condition	Y
COC/Labels Agree	Y	Samples Preserved Properly	Y
Sufficient Sample Volume	Y	Sufficient Holding Time for all Tests	Y
Sample Labels intact	Y	Received on Ice	Y

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

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CHAIN OF CUSTODY RECORD

108478

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut Street Pasadena, CA 91124
PHONE / FAX: (310) 809-5793
PROJECT NAME: Canoga Park Highschool
PROJECT #:
SITE NAME AND ADDRESS: 6850 CA-27, Canoga Park, CA 91303
PO #:

AETL JOB No. BE00024

Page 1 of 2

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	OCPs (8081A)	STLC - Pb	TCLP - Pb	TEST INSTRUCTIONS & COMMENTS
1	SB-48-D0.5	BE00024-01	4/6/2023	0709	Soil	1 x 9oz	NONE	X	X	X			
2	SB-48-D2.0	-02		0714									Hold
3	SB-48-D3.0	-03		0718									Hold
4	SB-49-D0.5	-04		0726				X	X	X			
5	SB-49-D2.0	-05		0729									Hold
6	SB-49-D3.0	-06		0732									Hold
7	SB-17-D0.5	-07		0809				X	X	X			
8	SB-17-D2.0	-08		0812									Hold
9	SB-17-D3.0	-09		0815									Hold
10	SB-32-D0.5	-10		0907				X	X	X	X		
11	SB-32-D2.0	-11		0910						X			Hold
12	SB-32-D3.0	-12		0913									Hold
13	SB-28-D0.5	-13		0922				X	X	X	X	X	
14	SB-28-D2.0	-14		0925				X					Hold
15	SB-28-D3.0	-15		0929									Hold

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y / N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

TURN AROUND TIME

☑ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY
☑ PDF
☐ GEOTRACKER (GLOBAL ID) _____
☐ OTHER (PLEASE SPECIFY) _____

	RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:	E. Salinas		
Printed Name:	Edward Dabays		
Date / Time:	4/6/2023 1140		

	RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: 3.
Signature:			AETL
Printed Name:			Chantal Avila
Date / Time:			4/6/23 11:40

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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CHAIN OF CUSTODY RECORD

108482

COMPANY: Parsons
PROJECT MANAGER: Justin Kemp
COMPANY ADDRESS: 100 W. Walnut Street Pasadena, CA 91124
PHONE / FAX: (310) 809-5743
PROJECT NAME: Canoga Park High School
PROJECT #:
SITE NAME AND ADDRESS: 6850 CA-27, Canoga Park, CA 91303
PO #:
AETL JOB No. BE00024
Page 2 of 2

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	OCPs (8081A)	PCBs (8082)	Asbestos (PLM)	PAHs (8270C)	Cr (VI) (7199)	Cd+Ni (6010B)	Mercury (7470A)	TEST INSTRUCTIONS & COMMENTS
1	SB-31-D0.5	BE00024-16	4/6/2023	0847	Soil	1x9oz + 2x2oz	NONE	X	X	X	X	X	X	X	X	X	
2	SB-31-D2.0	-17		0853		1x9oz											Hold
3	SB-31-D3.0	-18		0857		1x9oz											Hold
4	SB-20-D0.5	-19		0827		1x9oz + 2x2oz		X	X	X	X	X	X	X	X	X	4 ED.
5	SB-20-D2.0	-20		0830		1x4oz			X								Hold
6	SB-20-D3.0	-21		0834					X								Hold
7	SB-30-D0.5	-22		0939				X	X	X							
8	SB-30-D2.0	-23		0943													Hold
9																	
10																	
11																	
12																	
13																	
14																	
15																	

E. Galvan

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y/ N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

TURN AROUND TIME

☑ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY ☑ PDF ☐ GEOTRACKER (GLOBAL ID) _____ ☐ OTHER (PLEASE SPECIFY) _____

	RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:	E. Galvan		
Printed Name:	Edward Dabbs		
Date: / Time:	4/6/2023 1140		

	RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: 3.
Signature:			AETL
Printed Name:			
Date: / Time:			4/6/23 1140

Page 5 of 20

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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COOLER RECEIPT FORM

Client Name: Parsons

Project Name: Canoga Park High School Project No.:

AETL Job Number: BED0024

Date Received: 04-06-23 Received by: Chantal A.

Carrier: ☑ AETL Courier ☐ Client ☐ GSL ☐ FedEx ☐ UPS
☐Others:

Samples were received in: ☑ Cooler (__2_____) ☐ Other (Specify)**:**

Sample Container Temperature: __5.9__ °C IR Gun S/N: 51941911MV

Type of sample containers: ☐ VOA, ☐ Glass bottles, ☑Wide mouth jars, ☐HDPE bottles, ☐ Metal sleeves, ☐ Acetate sleeves, ☐ 5035 Kit: ☐ AETL or ☐ Client, ☐ Tedlar Bags, Summa Canister: ☐ 6L, ☐ 3L, ☐ 1L, Others (Specify): _____

How are samples preserved: ☐ None, ☑ Ice, ☐ Blue Ice, ☐ Dry Ice
☑ None, ☐ HNO_3, ☐ NaOH, ☐ ZnOAc, ☐ HCl, ☐ $Na_2S_2O_3$, ☐ MeOH, ☐ $NaHSO_4$
☐ Other (Specify):

	Yes	No	N/A	Note or Comment
1. Are the COCs Correct?	✔			
2. Are Sample labels legible & indelible ink?	✔			
3. Do samples match the COC?	✔			
4. Are the required analyses clear?	✔			
5. Is there enough samples for required analysis?	✔			
6. Does cooler or samples have custody seal(s)?			✔	
7. Are sample containers in good condition?	✔			
8. Are samples preserved?	✔			
9. Are samples preserved properly for the intended analysis?	✔			
10. Are the VOAs free of headspace? See footnote.			✔	
11. Are the jars free of headspace?			✔	

* = see note below. N/A = Not Applicable

PLEASE NOTE ALL SAMPLES WILL BE DISPOSED OF 30 DAYS AFTER RECEIVING DATE. IF AETL IS INFORMED OTHERWISE, THERE WILL BE A STORAGE CHARGE PER SAMPLE PER MONTH FOR ANY SAMPLE HELD BEYOND 30 DAYS.

◯ Example maximum headspace bubble size; acceptance criteria not to exceed 5-6 mm in diameter.

For headspace bubbles exceeding 6 mm in diameter, sample receiving will tag the VOA and notify the Project Manager. The Project Manager will contact client for Analyze or Resample instructions.

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Parsons	AETL Job Number:	BED0024	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	05/09/2023 12:45

Case Narrative

The following "Sample Received" Section summarizes the samples received and associated analyses requested as specified on the enclosed chain of custody.

Results as reported by the laboratory apply only to 1) the items tested, 2) as the samples are received, and 3) the accuracy of information provided. Information supplied by the customer that may affect validity of results and may be contained in this report include Project Name/Number, Site Location, Sample Locations, Sampling Dates/Times, Sample ID, Sample Preservation, Sample Matrix, Sample Properties, Field Blanks, Field Duplicates, Field Spikes, and Site Historical Data.

Accreditation applies only to the test methods listed on each scope of accreditation held by the laboratory; certifications held by the laboratory may not apply to results supplied in this report.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

Qualifiers are noted in the report.

The samples were subcontracted to AIH Laboratory for EPA-600R-93/116. Please see attached report for results.

The samples were subcontracted to Orange Coast Analytical for EPA 6020-As. Please see attached report for results.

The samples were subcontracted to Asset Laboratories for EPA 7199. Please see attached report for results.

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

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Parsons	AETL Job Number:	BED0024	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	05/09/2023 12:45	

Samples Received

AETL received the following samples on 04/06/2023 with the following specifications

Client ID			Sample Date
SB-20-D3.0			04/6/2023 8:34
Lab ID		**Matrix**	**Quantity of Containers**
BED0024-21		Soil	2

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Total Number of Samples received: 1

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

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A KYZER LABS COMPANY

Parsons	AETL Job Number:	BED0024	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	05/09/2023 12:45

Positive Hits Summary

Lab ID	Client ID					Sampled
Method	Analyte	Result	Qualifier	Unit		Analyzed

Please see subcontract report.

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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Parsons	AETL Job Number:	BED0024	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	05/09/2023 12:45

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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Parsons	AETL Job Number:	BED0024	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	05/09/2023 12:45

Qualifiers and Definitions

Item	Definitions
% wt	Percent Weight
%REC	Percent Recovery
°F	Degrees Fahrenheit
AETL	American Environmental Testing Laboratory, LLC
C	Carbon
CARB	California Air Resources Board
COC	Chain of Custody
Cresols	3-methylphenol/4-methylphenol coelute and cannot be chromatographically separated. Due to this coeluting isomer pair phenomenon, the laboratory uses a single cresol (4-methylphenol) as calibration standard for 3-methylphenol/4-methylphenol.
CRM	Certified Reference Material
DPD	Department of Planning and Development
DRO	Diesel Range Organics
Dup	Duplicate
ELAP	Environmental Laboratory Accreditation Program
EPA	Environmental Protection Agency
GC/FID	Gas Chromatography Flame Ionization Detection
GRO	Gasoline Range Organics
HC	Hydrocarbon
HEM	Hexane Extractable Material
HMU	Hazardous Material Unit
ICP/MS	Inductively Coupled Plasma Mass Spectrometry
LACSD	Los Angeles County Sanitation Districts
LCS	Laboratory Control Sample - A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes.
LCSD	Laboratory Control Sample Duplicate - A replicate of Laboratory Control Sample.
LOQ	Limit of Quantitation
MDL	Method Detection Limit - The minimum measured concentration of a substance that can be reported with 99% confidence. MDL is statistically derived number which is specific for each instrument, each method and each compound.
mg/kg	Miligrams per Kilogram
mg/L	Miligrams per Liter
ml/L/hr	Milliliter per Liter per Hour
MRO	Motor oil Range Organics
MS	Matrix Spike - A sample prepared, taken through all sample preparation and analytical steps of the procedure and analyzed as an independent test results.
MSD	Matrix Spike Duplicate - A replicate of Matrix Spike Sample.
N	No
ND	Analyte is not detected below Method Detection Limit.
ng/m3	Nanograms per cubic meter

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

Parsons	AETL Job Number:	BED0024	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	05/09/2023 12:45

NIOSH	National Institute for Occupational Safety and Health
nL/L	Nanoliters per Liter
NTU	Nephelometric Turbidity Units
Ohm-cm	Ohms per centimeter
ORO	Oil Range Organics
OSHA	Occupational Safety and Health Administration
PCB	Polychlorinated Biphenyl
PSU	Practical Salinity Unit
RL	Reporting Limit - The lowest concentration at which an analyte can be detected in a sample and its concentration can be reported with a specified degree of confidence, accuracy and precision. For usage at AETL, RL is equivalant to LOQ.
RPD	Relative Percent Difference
SIM	Selective Ion Monitoring
SM	Standard Method
SPLP	Synthetic Precipitation Leaching Procedure
STLC	Soluble Threshold Limit Concentration
TCLP	Toxicity Characteristic Leaching Procedure
TPH	Total Petroleum Hydrocarbons
TTLC	Total Threshold Limit Concentrations
ug/kg	Micrograms per Kilogram
ug/L	Micrograms per Liter
ug/m3	Micrograms per cubic meter
WET	Waste Extraction Test
Y	Yes
ZHE	Zero Headspace Extraction

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

Orange Coast Analytical, Inc.
3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (480) 736-0960 Fax (480) 736-0970

LABORATORY REPORT FORM

ORANGE COAST ANALYTICAL, INC.

3002 Dow Suite 532 Tustin, CA 92780

(714) 832-0064

Laboratory Certification (ELAP) No.:2576
Expiration Date: 2025
Los Angeles County Sanitation District Lab ID# 10206

Laboratory Director's Name:
Mark Noorani

Client:	American Environmental Testing Laboratory
Laboratory Reference:	AETL 27873
Project Name:	
Project Number:	BED0024.04
Date Received:	5/1/2023
Date Reported:	5/9/2023
Chain of Custody Received:	☑
Analytical Method:	6020,

Mark Noorani, Laboratory Director

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Rev1.0

Ms. Hailley Coleman
American Environmental Testing Laboratory
2840 Naomi St
Burbank, CA, 91504

Lab Reference #: AETL 27873
Project Name:
Project #: BED0024.04

Case Narrative

Sample Receipt:

All samples on the Chain of Custody were received by OCA at 2ºC, on ice.

Holding Times:

All samples were analyzed within required holding times unless otherwise noted in the data qualifier section of the report.

Analytical Methods:

Sample analysis was performed following the analytical methods listed on the cover page.

Data Qualifiers:

Within this report, data qualifiers may have been assigned to clarify deviations in common laboratory procedures or any divergence from laboratory QA/QC criteria. If a data qualifier has been used, it will appear in the back of the report along with its description. All method QA/QC criteria have been met unless otherwise noted in the data qualifier section.

Definition of Terms:

The definitions of common terms and acronyms used in the report have been placed at the back of the report to assist data users.

Comments:

None

Ms. Hailley Coleman
American Environmental Testing Laboratory
2840 Naomi St
Burbank, CA, 91504

Lab Reference #: AETL 27873
Project Name:
Project #: BED0024.04

Client Sample Summary

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0024-21	27873-001	5/1/2023	4/6/2023	Soil

Ms. Hailley Coleman
American Environmental Testing Laboratory
2840 Naomi St
Burbank, CA, 91504

Lab Reference #: AETL 27873
Project Name:
Project #: BED0024.04

Metals

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
BED0024-21	27873-001	5/1/2023 15:25	4/6/2023 8:34	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6020	4.5	mg/kg	05/01/23 15:35	05/03/23 12:01	--	1

Method Blank — Soil

MB ID	ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
MBHV0501231	Arsenic	6020	<1.0	mg/kg	05/01/23 15:35	05/03/23 10:57	--	1

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QA/QC Report
for
Metals

Reference #: AETL 27873 Reporting units: ppm

Matrix Spike (MS) / Matrix Spike Duplicate (MSD) **6020**

Laboratory Sample #: AZ13973-003 **Date of Extraction:** 05/01/23 15:35

Analyte	MS Date of Analysis	MSD Date of Analysis	R1	SPC CONC	MS	MSD	% MS	% MSD	RPD	ACP %MS	ACP RPD	Qualifiers
Arsenic	05/03/23 11:09	05/03/23 11:12	5.80	20.0	25.2	26.7	97	105	6	75-125	20	--

Laboratory Control Spike (LCS) / Laboratory Control Spike Duplicate (LCSD) **6020**

Laboratory Sample #: HV0501231 **Date of Extraction:** 05/01/23 15:35

Analyte	LCS Date of Analysis	LCSD Date of Analysis		SPC CONC	LCS	LCSD	% LCS	% LCSD	RPD	ACP %LCS	ACP RPD	Qualifiers
Arsenic	05/03/23 11:00	05/03/23 11:03	--	20.0	20.6	20.1	103	101	2	80-120	20	--

Definition of terms:

R	Result of unspiked laboratory sample used for matrix spike determination.
SP CONC (or Spike Conc.)	Spike concentration added to sample or blank
MS	Matrix Spike sample result
MSD	Matrix Spike Duplicate sample result
%MS	Percent recovery of MS: {(MS-R1) / SP CONC} x100
%MSD	Percent recovery of MSD: {(MSD-R1) / SP CONC} x 100
RPD (for MS/MSD)	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2
LCS	Laboratory Control Sample result
LCSD	Laboratory Control Sample Duplicate result
%LCS	Percent recovery of LCS: {(LCS) / SP CONC} x100
%LCSD	Percent recovery of LCSD: {(LCSD) / SP CONC} x 100
RPD (for LCS/LCSD)	Relative Percent Difference: {(LCS-LCSD) / (LCS+LCSD)} x 100 x 2
ACP %LCS	Acceptable percent recovery range for Laboratory Control Samples.
ACP %MS	Acceptable percent recovery range for Matrix Spike samples
ACP RPD	Acceptable Relative Percent Difference
D	Detectable, result must be greater than zero
Qual	A checked box indicates a data qualifier was utilized and/or required for this analyte see attached explanation.
ND	Analyte Not Detected

Analysis Request and Chain of Custody Record

Lab Job No: 27873
Page 1 of 1

ORANGE COAST ANALYTICAL, INC. www.ocalab.com
3002 Dow, Suite 532
Tustin, CA 92780
(714) 832-0064 Fax (714) 832-0067
4620 E. Elwood, Suite 4
Phoenix, AZ 85040
(480) 736-0960 Fax (480) 736-0970

REQUIRED TURN AROUND TIME: Standard: ✔
72 Hours: ____ 48 Hours: ____ 24 Hours: ____

CUSTOMER INFORMATION		PROJECT INFORMATION	
COMPANY:	American Environmental Testing L	PROJECT NAME:	
SEND REPORT TO:	Hailley Coleman	NUMBER:	BED0024.04
EMAIL:	hcoleman@aetlab.com	ADDRESS:	
ADDRESS:	2840 N. Naomi st.		
	Burbank, CA 91504	P.O. #:	SUB-35339
PHONE:	(818) 845-8200 FAX:	SAMPLED BY:	

ANALYSIS REQUEST / PRESERVATIVE: 6020-AS

SAMPLE ID	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER TYPE	6020-AS										REMARKS/PRECAUTIONS
BED0024-21	1	04/06/23	8:34	SS		✔										

Total No. of Samples: Method of Shipment: Preservative: 1 = Ice 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By: [signature]	Date/Time: 5-1-23 1325	Received For Lab By: [signature] OCA, CA	Date/Time: 5-1-23 1325

Sample Matrix:
GW - Groundwater
WW - Wastewater
SW - Stormwater
DW - Drinking Water
W - Water
SS - Soil/Solid
OT - Other

Sample Integrity: 2.0 + 0.2 2.0°C
Intact: ____ On Ice: Yes / No @ IR#3 °C

By signing above, client acknowledges responsibility for payment of all services requested on this chain of custody form and any additional services provided in support of this project. Pay

Sample Receipt Report

Laboratory Reference: AETL 27873 Logged in by: HC

Received:	05/01/23 15:25	Company Name:	American Environmental Testing Labo
Method of Shipment:	Hand Delivered	Project Manager:	Ms. Hailley Coleman
Shipping Container:	Cooler	Project Name:	
# Shipping Containers:	1	Project #:	BED0024.04

Sample Quantity
1 Soil

Chain of Custody		Complete ☑	Incomplete ☐	None ☐
Samples On Ice		Yes, Wet ☑	Yes, Blue ☐	No ☐
Observed Temp. (°C):	2	Thermometer ID: IR#3	Adjusted Temp.:	2+(-0)=2
Shipping Intact		Yes ☑	N/A ☐	No ☐
Shipping Custody Seals Intact		Yes ☐	N/A ☑	No ☐
Samples Intact		Yes ☑		No ☐
Sample Custody Seals Intact		Yes ☐	N/A ☑	No ☐
Custody Seals Signed & Dated		Yes ☐	N/A ☑	No ☐
Proper Test Containers		Yes ☑		No ☐
Proper Test Preservations		Yes ☑		No ☐
Samples Within Hold Times		Yes ☑		No ☐
VOAs Have Zero Headspace		Yes ☐	N/A ☑	No ☐
Sample Labels		Complete ☑	Incomplete ☐	None ☐
Sample Information Matches COC		Yes ☑	N/A ☐	No ☐

Notes

Client Notified _____ By _____ On _____

AMERICAN ENVIRONMENTAL TESTING LABORATORY, LLC
2840 North Naomi Street, Burbank, CA 91504 • ELAP# 1541 • LACSD# 10181
Telephone (888) 288-AETL • (818) 845-8200 • www.aetlab.com

April 13, 2023

AETL Job No: BED0025
Received Date: 04/06/2023
Project Number: [none]

Parsons
100 West Walnut Street
Pasadena, CA 91124
Telephone: (626) 440-6200

Attention: Justin King

Project Name: Canoga Park High School
Site: 6850 CA-27
Canoga Park, CA 91303

Enclosed please find the results of analyses for samples which were analyzed as specified on the attached chain of custody. If you have any questions concerning this report, please do not hesitate to call.

Checked By:

Corey Jones
Project Manager

Approved By:

Hailley Coleman
Project Manager

Table of Contents

Client Project Name: General Soil Testing Project Number: [none]
Work Order Number: BED0025

1 Cover Letter 1
2 Sample Condition on Receipt 3
3 Chain of Custody 4
4 Cooler Receipt Forms 5
5 Case Narrative 6
6 Samples Received 7
7 Positive Hits Summary 8
8 Analytical Results 9
9 Quality Control Results 13
10 Qualifiers and Definitions 27
11 Sub Contracted Analysis 29

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A KYZER LABS COMPANY

Parsons	AETL Job Number:	BED0025	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/13/2023 16:19	

Sample Condition on Receipt

Cooler ID: Default Cooler **Temperature: 5.9 °C**

Are the COCs Correct	Y		
Labels Legible	Y	Containers In Good Condition	Y
COC/Labels Agree	Y	Samples Preserved Properly	Y
Sufficient Sample Volume	Y	Sufficient Holding Time for all Tests	Y
Sample Labels intact	Y	Received on Ice	Y

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

American Environmental Testing Laboratory Inc.

2834 & 2908 North Naomi Street, Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

CHAIN OF CUSTODY RECORD

108480

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut Street Pasadena, CA 91124
PHONE / FAX: (310) 809-5793
PROJECT NAME: Canoga Park High School
PROJECT #:
SITE NAME AND ADDRESS: 6850 CA-27, Canoga Park, CA 91303
PO #303

AETL JOB No. BE00025

Page 1 of 1

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	VOCs (8260B)	TPH g (8015)	TPH d (8015)	Title 22 Metals (6010)	Mercury (7471)	Asbestos in water	TEST INSTRUCTIONS & COMMENTS
1	IDW-040623	3E00025-01	4/6/2023	0800	water	6 x varias	HCl HNO3	X	X	X	X	X	X	
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														
15														

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y/ N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

TURN AROUND TIME

☑ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY ☑ PDF ☐ GEOTRACKER (GLOBAL ID) _____ ☐ OTHER (PLEASE SPECIFY) _____

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:	Signature:	Signature:
Printed Name: Edward Dabbs	Printed Name:	Printed Name:
Date: 4/6/2023 Time: 1140	Date: Time:	Date: Time:
RECEIVED BY: 1.	**RECEIVED BY:** 2.	**RECEIVED BY LABORATORY:** 3.
Signature:	Signature:	Signature:
Printed Name:	Printed Name:	Printed Name:
Date: Time:	Date: Time:	Date: 4/6/23 Time: 11:20

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

AMERICAN ENVIRONMENTAL TESTING LABORATORY
2840 North Naomi Street Burbank, CA 91504 • ELAP# 1541 & 2402 • LACSD# 10181
TEL (888) 288-AETL • (818) 845-8200 • www.aetlab.com
A KYZER LABS COMPANY

COOLER RECEIPT FORM

Client Name: Parsons

Project Name: Canoga Park High School Project No.:

AETL Job Number: BED0025

Date Received: 04-06-23 Received by: Chantal A.

Carrier: ☑ AETL Courier ☐ Client ☐ GSL ☐ FedEx ☐ UPS
☐Others:

Samples were received in: ☑ Cooler (_1_____) ☐ Other (Specify):

Sample Container Temperature: __5.9__ °C IR Gun S/N: 51941911MV_____

Type of sample containers: ☑ VOA, ☑ Glass bottles, ☐Wide mouth jars, ☑HDPE bottles,
☐ Metal sleeves, ☐ Acetate sleeves, ☐ 5035 Kit: ☐ AETL or ☐ Client, ☐ Tedlar Bags,
Summa Canister: ☐ 6L, ☐ 3L, ☐ 1L, Others (Specify): _____

How are samples preserved: ☐ None, ☑ Ice, ☐ Blue Ice, ☐ Dry Ice
☐ None, ☑ HNO_3, ☐ NaOH, ☐ ZnOAc, ☑ HCl, ☐ $Na_2S_2O_3$,
☐ MeOH, ☐ $NaHSO_4$
☐ Other (Specify):

	Yes	No	N/A	Note or Comment
1. Are the COCs Correct?	✔			
2. Are Sample labels legible & indelible ink?	✔			
3. Do samples match the COC?	✔			
4. Are the required analyses clear?	✔			
5. Is there enough samples for required analysis?	✔			
6. Does cooler or samples have custody seal(s)?			✔	
7. Are sample containers in good condition?	✔			
8. Are samples preserved?	✔			
9. Are samples preserved properly for the intended analysis?	✔			
10. Are the VOAs free of headspace? See footnote.			✔	
11. Are the jars free of headspace?			✔	

* = see note below. N/A = Not Applicable

PLEASE NOTE ALL SAMPLES WILL BE DISPOSED OF 30 DAYS AFTER RECEIVING DATE. IF AETL IS INFORMED OTHERWISE, THERE WILL BE A STORAGE CHARGE PER SAMPLE PER MONTH FOR ANY SAMPLE HELD BEYOND 30 DAYS.

◯ Example maximum headspace bubble size; acceptance criteria not to exceed 5-6 mm in diameter.

For headspace bubbles exceeding 6 mm in diameter, sample receiving will tag the VOA and notify the Project Manager. The Project Manager will contact client for Analyze or Resample instructions.

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Parsons	AETL Job Number:	BED0025	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/13/2023 16:19

Case Narrative

The following "Sample Received" Section summarizes the samples received and associated analyses requested as specified on the enclosed chain of custody.

Results as reported by the laboratory apply only to 1) the items tested, 2) as the samples are received, and 3) the accuracy of information provided. Information supplied by the customer that may affect validity of results and may be contained in this report include Project Name/Number, Site Location, Sample Locations, Sampling Dates/Times, Sample ID, Sample Preservation, Sample Matrix, Sample Properties, Field Blanks, Field Duplicates, Field Spikes, and Site Historical Data.

Accreditation applies only to the test methods listed on each scope of accreditation held by the laboratory; certifications held by the laboratory may not apply to results supplied in this report.

Qualifiers are noted in the report.

The sample was subcontracted to LA Testing for EPA 100.2. Please see attached report for results.

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

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Parsons	AETL Job Number:	BED0025	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/13/2023 16:19	

Samples Received

AETL received the following samples on 04/06/2023 with the following specifications

Client ID			Sample Date
IDW-040623			04/6/2023 8:00
Lab ID	**Matrix**		**Quantity of Containers**
BED0025-01	Aqueous		6

Method	Analyte	Units	TAT
EPA 100.2	Determ. of Asbestos Structures over 10um in Length	MF/L	5
EPA 6010B	Title 22 Metals (SW-846)	mg/L	5
EPA 7470A	Mercury Cold-Vapor Technique	mg/L	5
EPA 8015B TPH DRO/ORO	TPH as Diesel and Heavy Hydrocarbons Using GC/FID	mg/L	5
EPA 8015B TPH GRO	TPH as Gasoline and Light Hydrocarbons	mg/L	5
EPA 8260B	Volatile Organic Compounds by GC/MS (SW846)	ug/L	5

Total Number of Samples received: 1

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Parsons	AETL Job Number:	BED0025	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/13/2023 16:19

Positive Hits Summary

Lab ID	Client ID				Sampled
BED0025-01	IDW-040623				04/06/2023 08:00
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Barium	0.163		mg/L	04/11/2023 13:23
EPA 6010B	Chromium	0.00883	J	mg/L	04/11/2023 13:23
EPA 6010B	Cobalt	0.298		mg/L	04/11/2023 13:23
EPA 6010B	Copper	0.0347	J	mg/L	04/11/2023 13:23
EPA 6010B	Nickel	0.00775	J	mg/L	04/11/2023 13:23
EPA 6010B	Silver	0.0307	J	mg/L	04/11/2023 13:23
EPA 6010B	Vanadium	0.00776	J	mg/L	04/11/2023 13:23
EPA 6010B	Zinc	0.0292	J	mg/L	04/11/2023 13:23
EPA 8260B	Acetone	76.1	DIL	ug/L	04/11/2023 16:54
EPA 8015B TPH DRO/ORO	TPH as Diesel (C13-C22)	0.218		mg/L	04/12/2023 17:27
EPA 8015B TPH DRO/ORO	TPH as Heavy Hydrocarbons (C23-40)	0.112		mg/L	04/12/2023 17:27
EPA 8015B TPH DRO/ORO	TPH Total as Diesel and Heavy HC (C13-C40)	0.331		mg/L	04/12/2023 17:27

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Parsons	AETL Job Number:	BED0025	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/13/2023 16:19	

Analytical Results

Client ID: IDW-040623
Lab ID: BED0025-01 (Aqueous) **Sampled:** 04/06/23 8:00

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Antimony	ND		1	0.0270	0.0400	mg/L	04/10/23 08:17	04/11/23 13:23	B3D0110	DT	3005A
Arsenic	ND		1	0.0190	0.0800	mg/L	04/10/23 08:17	04/11/23 13:23	B3D0110	DT	3005A
Barium	**0.163**		1	0.00600	0.0400	mg/L	04/10/23 08:17	04/11/23 13:23	B3D0110	DT	3005A
Beryllium	ND		1	0.00200	0.0400	mg/L	04/10/23 08:17	04/11/23 13:23	B3D0110	DT	3005A
Cadmium	ND		1	0.00400	0.0400	mg/L	04/10/23 08:17	04/11/23 13:23	B3D0110	DT	3005A
Chromium	**0.00883**	J	1	0.00500	0.0400	mg/L	04/10/23 08:17	04/11/23 13:23	B3D0110	DT	3005A
Cobalt	**0.298**		1	0.00200	0.0400	mg/L	04/10/23 08:17	04/11/23 13:23	B3D0110	DT	3005A
Copper	**0.0347**	J	1	0.00300	0.0400	mg/L	04/10/23 08:17	04/11/23 13:23	B3D0110	DT	3005A
Lead	ND		1	0.00900	0.0400	mg/L	04/10/23 08:17	04/11/23 13:23	B3D0110	DT	3005A
Molybdenum	ND		1	0.0100	0.0400	mg/L	04/10/23 08:17	04/11/23 13:23	B3D0110	DT	3005A
Nickel	**0.00775**	J	1	0.00500	0.0400	mg/L	04/10/23 08:17	04/11/23 13:23	B3D0110	DT	3005A
Selenium	ND		1	0.0460	0.0800	mg/L	04/10/23 08:17	04/11/23 13:23	B3D0110	DT	3005A
Silver	**0.0307**	J	1	0.00300	0.0400	mg/L	04/10/23 08:17	04/11/23 13:23	B3D0110	DT	3005A
Thallium	ND		1	0.0250	0.0400	mg/L	04/10/23 08:17	04/11/23 13:23	B3D0110	DT	3005A
Vanadium	**0.00776**	J	1	0.00200	0.0400	mg/L	04/10/23 08:17	04/11/23 13:23	B3D0110	DT	3005A
Zinc	**0.0292**	J	1	0.00700	0.0400	mg/L	04/10/23 08:17	04/11/23 13:23	B3D0110	DT	3005A
Method: EPA 7470A											
Mercury	ND		1	0.000187	0.00100	mg/L	04/11/23 14:43	04/11/23 17:15	B3D0130	LE	7470A
Volatile Organic Compounds											
Method: EPA 8260B											
Acetone	**76.1**	DIL	2	20.0	50.0	ug/L	04/11/23 09:00	04/11/23 16:54	B3D0114	DA	5030B
Acrolein	ND	D	2	1.00	4.00	ug/L	04/11/23 09:00	04/11/23 16:54	B3D0114	DA	5030B
Acetonitrile	ND	D	2	1.00	4.00	ug/L	04/11/23 09:00	04/11/23 16:54	B3D0114	DA	5030B
Acrylonitrile (2-Propenenitrile)	ND	D	2	1.00	4.00	ug/L	04/11/23 09:00	04/11/23 16:54	B3D0114	DA	5030B
Benzene	ND	D	2	0.500	2.00	ug/L	04/11/23 09:00	04/11/23 16:54	B3D0114	DA	5030B
Bromobenzene (Phenyl bromide)	ND	D	2	0.480	2.00	ug/L	04/11/23 09:00	04/11/23 16:54	B3D0114	DA	5030B
Bromochloromethane	ND	D	2	0.500	2.00	ug/L	04/11/23 09:00	04/11/23 16:54	B3D0114	DA	5030B
Bromodichloromethane	ND	D	2	0.540	2.00	ug/L	04/11/23 09:00	04/11/23 16:54	B3D0114	DA	5030B
Bromoform (Tribromomethane)	ND	D	2	0.620	2.00	ug/L	04/11/23 09:00	04/11/23 16:54	B3D0114	DA	5030B

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Telephone (888) 288-AETL • (818) 845-8200 • www.aetlab.com
A KYZER LABS COMPANY

Parsons	AETL Job Number:	BED0025	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/13/2023 16:19	

Analytical Results

Client ID: IDW-040623
Lab ID: BED0025-01 (Aqueous) **Sampled:** 04/06/23 8:00

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Volatile Organic Compounds (Continued)											
Bromomethane (Methyl bromide)	ND	D	2	1.94	2.00	ug/L	04/11/23 09:00	04/11/23 16:54	B3D0114	DA	5030B
2-Butanone (MEK)	ND	D	2	5.00	10.0	ug/L	04/11/23 09:00	04/11/23 16:54	B3D0114	DA	5030B
n-Butylbenzene	ND	D	2	0.500	2.00	ug/L	04/11/23 09:00	04/11/23 16:54	B3D0114	DA	5030B
sec-Butylbenzene	ND	D	2	0.460	2.00	ug/L	04/11/23 09:00	04/11/23 16:54	B3D0114	DA	5030B
tert-Butylbenzene	ND	D	2	0.520	2.00	ug/L	04/11/23 09:00	04/11/23 16:54	B3D0114	DA	5030B
Carbon Disulfide	ND	D	2	0.760	2.00	ug/L	04/11/23 09:00	04/11/23 16:54	B3D0114	DA	5030B
Carbon tetrachloride	ND	D	2	0.500	2.00	ug/L	04/11/23 09:00	04/11/23 16:54	B3D0114	DA	5030B
Chlorobenzene	ND	D	2	0.520	2.00	ug/L	04/11/23 09:00	04/11/23 16:54	B3D0114	DA	5030B
Chloroethane	ND	D	2	0.580	2.00	ug/L	04/11/23 09:00	04/11/23 16:54	B3D0114	DA	5030B
2-Chloroethyl vinyl ether	ND	D	2	4.00	10.0	ug/L	04/11/23 09:00	04/11/23 16:54	B3D0114	DA	5030B
Chloroform (Trichloromethane)	ND	D	2	0.480	2.00	ug/L	04/11/23 09:00	04/11/23 16:54	B3D0114	DA	5030B
Chloromethane (Methyl chloride)	ND	D	2	0.700	2.00	ug/L	04/11/23 09:00	04/11/23 16:54	B3D0114	DA	5030B
2-Chlorotoluene	ND	D	2	1.00	2.00	ug/L	04/11/23 09:00	04/11/23 16:54	B3D0114	DA	5030B
4-Chlorotoluene	ND	D	2	0.500	2.00	ug/L	04/11/23 09:00	04/11/23 16:54	B3D0114	DA	5030B
1,2-Dibromo-3-chloropropane (DBCP)	ND	D	2	0.880	2.00	ug/L	04/11/23 09:00	04/11/23 16:54	B3D0114	DA	5030B
Dibromochloromethane	ND	D	2	0.560	2.00	ug/L	04/11/23 09:00	04/11/23 16:54	B3D0114	DA	5030B
1,2-Dibromoethane (EDB)	ND	D	2	0.680	2.00	ug/L	04/11/23 09:00	04/11/23 16:54	B3D0114	DA	5030B
Dibromomethane	ND	D	2	0.620	2.00	ug/L	04/11/23 09:00	04/11/23 16:54	B3D0114	DA	5030B
1,2-Dichlorobenzene	ND	D	2	0.560	2.00	ug/L	04/11/23 09:00	04/11/23 16:54	B3D0114	DA	5030B
1,3-Dichlorobenzene	ND	D	2	0.460	2.00	ug/L	04/11/23 09:00	04/11/23 16:54	B3D0114	DA	5030B
1,4-Dichlorobenzene	ND	D	2	0.520	2.00	ug/L	04/11/23 09:00	04/11/23 16:54	B3D0114	DA	5030B
Dichlorodifluoromethane	ND	D	2	0.440	2.00	ug/L	04/11/23 09:00	04/11/23 16:54	B3D0114	DA	5030B
1,1-Dichloroethane	ND	D	2	0.540	2.00	ug/L	04/11/23 09:00	04/11/23 16:54	B3D0114	DA	5030B
1,2-Dichloroethane (EDC)	ND	D	2	0.480	2.00	ug/L	04/11/23 09:00	04/11/23 16:54	B3D0114	DA	5030B
1,1-Dichloroethene	ND	D	2	0.520	2.00	ug/L	04/11/23 09:00	04/11/23 16:54	B3D0114	DA	5030B
cis-1,2-Dichloroethene	ND	D	2	0.500	2.00	ug/L	04/11/23 09:00	04/11/23 16:54	B3D0114	DA	5030B
trans-1,2-Dichloroethene	ND	D	2	0.520	2.00	ug/L	04/11/23 09:00	04/11/23 16:54	B3D0114	DA	5030B
1,1-Dichloropropene	ND	D	2	1.00	2.00	ug/L	04/11/23 09:00	04/11/23 16:54	B3D0114	DA	5030B
1,2-Dichloropropane	ND	D	2	0.560	2.00	ug/L	04/11/23 09:00	04/11/23 16:54	B3D0114	DA	5030B
1,3-Dichloropropane	ND	D	2	1.00	2.00	ug/L	04/11/23 09:00	04/11/23 16:54	B3D0114	DA	5030B
2,2-Dichloropropane	ND	D	2	1.00	2.00	ug/L	04/11/23 09:00	04/11/23 16:54	B3D0114	DA	5030B
cis-1,3-Dichloropropene	ND	D	2	0.420	2.00	ug/L	04/11/23 09:00	04/11/23 16:54	B3D0114	DA	5030B
trans-1,3-Dichloropropene	ND	D	2	0.540	2.00	ug/L	04/11/23 09:00	04/11/23 16:54	B3D0114	DA	5030B
Ethylbenzene	ND	D	2	0.440	2.00	ug/L	04/11/23 09:00	04/11/23 16:54	B3D0114	DA	5030B
Hexachlorobutadiene	ND	D	2	1.30	2.00	ug/L	04/11/23 09:00	04/11/23 16:54	B3D0114	DA	5030B
2-Hexanone	ND	D	2	5.00	10.0	ug/L	04/11/23 09:00	04/11/23 16:54	B3D0114	DA	5030B

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Parsons	AETL Job Number:	BED0025	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/13/2023 16:19	

Analytical Results

Client ID: IDW-040623

Lab ID: BED0025-01 (Aqueous) **Sampled: 04/06/23 8:00**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Volatile Organic Compounds (Continued)											
Iodomethane	ND	D	2	1.00	2.00	ug/L	04/11/23 09:00	04/11/23 16:54	B3D0114	DA	5030B
Isopropylbenzene	ND	D	2	1.00	2.00	ug/L	04/11/23 09:00	04/11/23 16:54	B3D0114	DA	5030B
p-Isopropyltoluene	ND	D	2	1.00	2.00	ug/L	04/11/23 09:00	04/11/23 16:54	B3D0114	DA	5030B
4-Methyl-2-pentanone (MIBK)	ND	D	2	0.820	2.00	ug/L	04/11/23 09:00	04/11/23 16:54	B3D0114	DA	5030B
Methyl-tert-butyl ether (MTBE)	ND	D	2	0.500	2.00	ug/L	04/11/23 09:00	04/11/23 16:54	B3D0114	DA	5030B
Methylene chloride (DCM)	ND	D	2	20.0	50.0	ug/L	04/11/23 09:00	04/11/23 16:54	B3D0114	DA	5030B
Naphthalene	ND	D	2	0.560	2.00	ug/L	04/11/23 09:00	04/11/23 16:54	B3D0114	DA	5030B
n-Propylbenzene	ND	D	2	0.500	2.00	ug/L	04/11/23 09:00	04/11/23 16:54	B3D0114	DA	5030B
Styrene	ND	D	2	0.540	2.00	ug/L	04/11/23 09:00	04/11/23 16:54	B3D0114	DA	5030B
1,1,1,2-Tetrachloroethane	ND	D	2	0.600	2.00	ug/L	04/11/23 09:00	04/11/23 16:54	B3D0114	DA	5030B
1,1,2,2-Tetrachloroethane	ND	D	2	0.500	2.00	ug/L	04/11/23 09:00	04/11/23 16:54	B3D0114	DA	5030B
Tetrachloroethene	ND	D	2	0.480	2.00	ug/L	04/11/23 09:00	04/11/23 16:54	B3D0114	DA	5030B
Toluene (Methyl benzene)	ND	D	2	0.460	2.00	ug/L	04/11/23 09:00	04/11/23 16:54	B3D0114	DA	5030B
1,2,3-Trichlorobenzene	ND	D	2	1.00	2.00	ug/L	04/11/23 09:00	04/11/23 16:54	B3D0114	DA	5030B
1,2,4-Trichlorobenzene	ND	D	2	0.540	2.00	ug/L	04/11/23 09:00	04/11/23 16:54	B3D0114	DA	5030B
1,1,1-Trichloroethane	ND	D	2	0.480	2.00	ug/L	04/11/23 09:00	04/11/23 16:54	B3D0114	DA	5030B
1,1,2-Trichloroethane	ND	D	2	0.560	2.00	ug/L	04/11/23 09:00	04/11/23 16:54	B3D0114	DA	5030B
Trichloroethene	ND	D	2	0.520	2.00	ug/L	04/11/23 09:00	04/11/23 16:54	B3D0114	DA	5030B
Trichlorofluoromethane	ND	D	2	0.560	2.00	ug/L	04/11/23 09:00	04/11/23 16:54	B3D0114	DA	5030B
1,2,3-Trichloropropane	ND	D	2	0.500	2.00	ug/L	04/11/23 09:00	04/11/23 16:54	B3D0114	DA	5030B
Trichlorotrifluoroethane (Freon-113)	ND	D	2	1.00	2.00	ug/L	04/11/23 09:00	04/11/23 16:54	B3D0114	DA	5030B
1,2,4-Trimethylbenzene	ND	D	2	1.00	2.00	ug/L	04/11/23 09:00	04/11/23 16:54	B3D0114	DA	5030B
1,3,5-Trimethylbenzene	ND	D	2	1.00	2.00	ug/L	04/11/23 09:00	04/11/23 16:54	B3D0114	DA	5030B
Vinyl Acetate	ND	D	2	1.00	10.0	ug/L	04/11/23 09:00	04/11/23 16:54	B3D0114	DA	5030B
Vinyl chloride (Chloroethene)	ND	D	2	0.580	2.00	ug/L	04/11/23 09:00	04/11/23 16:54	B3D0114	DA	5030B
m,p-Xylenes	ND	D	2	1.60	4.00	ug/L	04/11/23 09:00	04/11/23 16:54	B3D0114	DA	5030B
o-Xylene	ND	D	2	1.42	2.00	ug/L	04/11/23 09:00	04/11/23 16:54	B3D0114	DA	5030B
	Recovery				Acceptance Criteria						
Surrogate: Bromofluorobenzene	*102%*				*75-125*		04/11/23 09:00	*04/11/23 16:54*	B3D0114	*DA*	5030B
Surrogate: Dibromofluoromethane	*87.5%*				*75-125*		04/11/23 09:00	*04/11/23 16:54*	B3D0114	*DA*	5030B
Surrogate: Toluene-d8	*111%*				*75-125*		04/11/23 09:00	*04/11/23 16:54*	B3D0114	*DA*	5030B

TPH Gasoline Range

Method: EPA 8015B TPH GRO

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Parsons	AETL Job Number:	BED0025	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/13/2023 16:19	

Analytical Results

Client ID: IDW-040623

Lab ID: BED0025-01 (Aqueous) **Sampled: 04/06/23 8:00**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
TPH Gasoline Range (Continued)											
TPH as Gasoline and Light HC. (C4-C12)	ND		1	0.00143	0.0100	mg/L	04/10/23 19:52	04/10/23 19:52	B3D0109	BK	5030B
	Recovery				Acceptance Criteria						
Surrogate: Bromofluorobenzene	*105%*				*75-120*		04/10/23 19:52	*04/10/23 19:52*	B3D0109	*BK*	5030B
TPH Diesel Range											
Method: EPA 8015B TPH DRO/ORO											
TPH as Diesel (C13-C22)	**0.218**		1	0.0123	0.100	mg/L	04/12/23 11:02	04/12/23 17:27	B3D0139	TTN	3510C
TPH as Heavy Hydrocarbons (C23-40)	**0.112**		1	0.0123	0.100	mg/L	04/12/23 11:02	04/12/23 17:27	B3D0139	TTN	3510C
TPH Total as Diesel and Heavy HC (C13-C40)	**0.331**		1	0.0123	0.100	mg/L	04/12/23 11:02	04/12/23 17:27	B3D0139	TTN	3510C
	Recovery				Acceptance Criteria						
Surrogate: Chlorobenzene	*93.2%*				*60-125*		04/12/23 11:02	*04/12/23 17:27*	B3D0139	*TTN*	3510C

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Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/13/2023 16:19

Quality Control Results

Metals Total (EPA 6010B)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0110 - 3005A					**Prepared: 04/10/2023 08:17**						
Method Blank (B3D0110-BLK1)					**Analyzed: 04/11/2023 13:14**						
Antimony	ND	0.0270	0.0400	mg/L							
Arsenic	ND	0.0190	0.0800	mg/L							
Barium	0.00642	0.00600	0.0400	mg/L							B1, J
Beryllium	ND	0.00200	0.0400	mg/L							
Cadmium	ND	0.00400	0.0400	mg/L							
Chromium	ND	0.00500	0.0400	mg/L							
Cobalt	ND	0.00200	0.0400	mg/L							
Copper	ND	0.00300	0.0400	mg/L							
Lead	ND	0.00900	0.0400	mg/L							
Molybdenum	ND	0.0100	0.0400	mg/L							
Nickel	ND	0.00500	0.0400	mg/L							
Selenium	ND	0.0460	0.0800	mg/L							
Silver	ND	0.00300	0.0400	mg/L							
Thallium	ND	0.0250	0.0400	mg/L							
Vanadium	ND	0.00200	0.0400	mg/L							
Zinc	ND	0.00700	0.0400	mg/L							

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Parsons	AETL Job Number:	BED0025	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/13/2023 16:19	

Quality Control Results

Metals Total (EPA 6010B)

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0110 - 3005A (Continued)				**Prepared: 04/10/2023 08:17**						
LCS (B3D0110-BS1)				**Analyzed: 04/13/2023 12:53**						
Antimony	1.89	0.0400	mg/L	2.00		94.6	80-120			
Arsenic	1.92	0.0800	mg/L	2.00		96.0	80-120			
Barium	1.86	0.0400	mg/L	2.00		93.1	80-120			
Beryllium	1.98	0.0400	mg/L	2.00		99.0	80-120			
Cadmium	2.02	0.0400	mg/L	2.00		101	80-120			
Chromium	2.01	0.0400	mg/L	2.00		101	80-120			
Cobalt	1.98	0.0400	mg/L	2.00		99.2	80-120			
Copper	1.96	0.0400	mg/L	2.00		97.8	80-120			
Lead	1.96	0.0400	mg/L	2.00		98.2	80-120			
Molybdenum	1.99	0.0400	mg/L	2.00		99.5	80-120			
Nickel	2.01	0.0400	mg/L	2.00		100	80-120			
Selenium	1.88	0.0800	mg/L	2.00		94.0	80-120			
Silver	1.93	0.0400	mg/L	2.00		96.7	80-120			
Thallium	1.75	0.0400	mg/L	2.00		87.6	80-120			
Vanadium	2.04	0.0400	mg/L	2.00		102	80-120			
Zinc	1.96	0.0400	mg/L	2.00		97.9	80-120			
LCSD (B3D0110-BSD1)				**Analyzed: 04/13/2023 12:56**						
Antimony	1.89	0.0400	mg/L	2.00		94.7	80-120	0.0249	20	
Arsenic	1.88	0.0800	mg/L	2.00		93.8	80-120	2.29	20	
Barium	1.86	0.0400	mg/L	2.00		92.8	80-120	0.369	20	
Beryllium	1.91	0.0400	mg/L	2.00		95.6	80-120	3.51	20	
Cadmium	1.97	0.0400	mg/L	2.00		98.4	80-120	2.62	20	
Chromium	2.04	0.0400	mg/L	2.00		102	80-120	1.09	20	
Cobalt	2.00	0.0400	mg/L	2.00		99.8	80-120	0.576	20	
Copper	1.91	0.0400	mg/L	2.00		95.6	80-120	2.31	20	
Lead	2.01	0.0400	mg/L	2.00		100	80-120	2.20	20	
Molybdenum	1.95	0.0400	mg/L	2.00		97.3	80-120	2.29	20	
Nickel	2.02	0.0400	mg/L	2.00		101	80-120	0.584	20	
Selenium	1.83	0.0800	mg/L	2.00		91.6	80-120	2.60	20	
Silver	2.05	0.0400	mg/L	2.00		103	80-120	5.83	20	
Thallium	1.79	0.0400	mg/L	2.00		89.3	80-120	1.89	20	
Vanadium	2.04	0.0400	mg/L	2.00		102	80-120	0.305	20	
Zinc	1.90	0.0400	mg/L	2.00		94.9	80-120	3.11	20	

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100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/13/2023 16:19

Quality Control Results

Metals Total (EPA 7470A)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0130 - 7470A					**Prepared: 04/11/2023 14:43**						
Method Blank (B3D0130-BLK1)					**Analyzed: 04/11/2023 17:08**						
Mercury	ND	0.000187	0.00100	mg/L							

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100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/13/2023 16:19

Quality Control Results

Metals Total (EPA 7470A)

Analyte	Result		RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0130 - 7470A (Continued)						**Prepared: 04/11/2023 14:43**					
LCS (B3D0130-BS1)						**Analyzed: 04/11/2023 17:10**					
Mercury	0.00932		0.00100	mg/L	0.0100		93.2	80-120			
LCSD (B3D0130-BSD1)						**Analyzed: 04/11/2023 17:13**					
Mercury	0.00936		0.00100	mg/L	0.0100		93.6	80-120	0.409	15	
Duplicate (B3D0130-DUP1)		**Source: BED0025-01**				**Analyzed: 04/11/2023 17:18**					
Mercury	ND	0.000187	0.00100	mg/L		ND			NA	15	
Matrix Spike (B3D0130-MS1)		**Source: BED0025-01**				**Analyzed: 04/11/2023 17:21**					
Mercury	0.00795	0.000187	0.00100	mg/L	0.0100	ND	79.5	75-125			
Matrix Spike Dup (B3D0130-MSD1)		**Source: BED0025-01**				**Analyzed: 04/11/2023 17:23**					
Mercury	0.00793	0.000187	0.00100	mg/L	0.0100	ND	79.3	75-125	NA	15	

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100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/13/2023 16:19

Quality Control Results

Volatile Organic Compounds (EPA 8260B)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0114 - 5030B					**Prepared: 04/11/2023 09:00**						
Method Blank (B3D0114-BLK1)					**Analyzed: 04/11/2023 14:11**						
Acetone	ND	10.0	25.0	ug/L							
Acrolein	ND	0.500	2.00	ug/L							
Acetonitrile	ND	0.500	2.00	ug/L							
Acrylonitrile (2-Propenenitrile)	ND	0.500	2.00	ug/L							
Benzene	ND	0.250	1.00	ug/L							
Bromobenzene (Phenyl bromide)	ND	0.240	1.00	ug/L							
Bromochloromethane	ND	0.250	1.00	ug/L							
Bromodichloromethane	ND	0.270	1.00	ug/L							
Bromoform (Tribromomethane)	ND	0.310	1.00	ug/L							
Bromomethane (Methyl bromide)	ND	0.970	1.00	ug/L							
2-Butanone (MEK)	ND	2.50	5.00	ug/L							
n-Butylbenzene	ND	0.250	1.00	ug/L							
sec-Butylbenzene	ND	0.230	1.00	ug/L							
tert-Butylbenzene	ND	0.260	1.00	ug/L							
Carbon Disulfide	ND	0.380	1.00	ug/L							
Carbon tetrachloride	ND	0.250	1.00	ug/L							
Chlorobenzene	ND	0.260	1.00	ug/L							
Chloroethane	ND	0.290	1.00	ug/L							
2-Chloroethyl vinyl ether	ND	2.00	5.00	ug/L							
Chloroform (Trichloromethane)	ND	0.240	1.00	ug/L							
Chloromethane (Methyl chloride)	ND	0.350	1.00	ug/L							
2-Chlorotoluene	ND	0.500	1.00	ug/L							
4-Chlorotoluene	ND	0.250	1.00	ug/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.440	1.00	ug/L							
Dibromochloromethane	ND	0.280	1.00	ug/L							
1,2-Dibromoethane (EDB)	ND	0.340	1.00	ug/L							
Dibromomethane	ND	0.310	1.00	ug/L							
1,2-Dichlorobenzene	ND	0.280	1.00	ug/L							
1,3-Dichlorobenzene	ND	0.230	1.00	ug/L							
1,4-Dichlorobenzene	ND	0.260	1.00	ug/L							
Dichlorodifluoromethane	ND	0.220	1.00	ug/L							
1,1-Dichloroethane	ND	0.270	1.00	ug/L							
1,2-Dichloroethane (EDC)	ND	0.240	1.00	ug/L							
1,1-Dichloroethene	ND	0.260	1.00	ug/L							
cis-1,2-Dichloroethene	ND	0.250	1.00	ug/L							
trans-1,2-Dichloroethene	ND	0.260	1.00	ug/L							
1,1-Dichloropropene	ND	0.500	1.00	ug/L							
1,2-Dichloropropane	ND	0.280	1.00	ug/L							
1,3-Dichloropropane	ND	0.500	1.00	ug/L							
2,2-Dichloropropane	ND	0.500	1.00	ug/L							
cis-1,3-Dichloropropene	ND	0.210	1.00	ug/L							
trans-1,3-Dichloropropene	ND	0.270	1.00	ug/L							

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AMERICAN ENVIRONMENTAL TESTING LABORATORY, LLC
2840 North Naomi Street, Burbank, CA 91504 • ELAP# 1541 • LACSD# 10181
Telephone (888) 288-AETL • (818) 845-8200 • www.aetlab.com
A KYZER LABS COMPANY

Parsons	AETL Job Number:	BED0025	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/13/2023 16:19

Quality Control Results

Volatile Organic Compounds (EPA 8260B)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0114 - 5030B (Continued)					**Prepared: 04/11/2023 09:00**						
Method Blank (B3D0114-BLK1)					**Analyzed: 04/11/2023 14:11**						
Ethylbenzene	ND	0.220	1.00	ug/L							
Hexachlorobutadiene	ND	0.650	1.00	ug/L							
2-Hexanone	ND	2.50	5.00	ug/L							
Iodomethane	ND	0.500	1.00	ug/L							
Isopropylbenzene	ND	0.500	1.00	ug/L							
p-Isopropyltoluene	ND	0.500	1.00	ug/L							
4-Methyl-2-pentanone (MIBK)	ND	0.410	1.00	ug/L							
Methyl-tert-butyl ether (MTBE)	ND	0.250	1.00	ug/L							
Methylene chloride (DCM)	ND	10.0	25.0	ug/L							
Naphthalene	ND	0.280	1.00	ug/L							
n-Propylbenzene	ND	0.250	1.00	ug/L							
Styrene	ND	0.270	1.00	ug/L							
1,1,1,2-Tetrachloroethane	ND	0.300	1.00	ug/L							
1,1,2,2-Tetrachloroethane	ND	0.250	1.00	ug/L							
Tetrachloroethene	ND	0.240	1.00	ug/L							
Toluene (Methyl benzene)	ND	0.230	1.00	ug/L							
1,2,3-Trichlorobenzene	ND	0.500	1.00	ug/L							
1,2,4-Trichlorobenzene	ND	0.270	1.00	ug/L							
1,1,1-Trichloroethane	ND	0.240	1.00	ug/L							
1,1,2-Trichloroethane	ND	0.280	1.00	ug/L							
Trichloroethene	ND	0.260	1.00	ug/L							
Trichlorofluoromethane	ND	0.280	1.00	ug/L							
1,2,3-Trichloropropane	ND	0.250	1.00	ug/L							
Trichlorotrifluoroethane (Freon-113)	ND	0.500	1.00	ug/L							
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L							
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L							
Vinyl Acetate	ND	0.500	5.00	ug/L							
Vinyl chloride (Chloroethene)	ND	0.290	1.00	ug/L							
m,p-Xylenes	ND	0.800	2.00	ug/L							
o-Xylene	ND	0.710	1.00	ug/L							
Surrogate: Bromofluorobenzene	*52.3*			*ug/L*	*50.0*		*105*	*75-125*			
Surrogate: Dibromofluoromethane	*45.4*			*ug/L*	*50.0*		*90.9*	*75-125*			
Surrogate: Toluene-d8	*54.8*			*ug/L*	*50.0*		*110*	*75-125*			

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Parsons	AETL Job Number:	BED0025	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/13/2023 16:19	

Quality Control Results

Volatile Organic Compounds (EPA 8260B)

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0114 - 5030B (Continued)				**Prepared: 04/11/2023 09:00**						
LCS (B3D0114-BS1)				**Analyzed: 04/11/2023 12:13**						
Acetone	56.2		ug/L	50.0		112	11.9-199			
Benzene	54.5		ug/L	50.0		109	59.1-135			
Bromobenzene (Phenyl bromide)	55.8		ug/L	50.0		112	78.1-130			
Bromochloromethane	53.8		ug/L	50.0		108	65.4-140			
Bromodichloromethane	54.4		ug/L	50.0		109	80.1-129			
Bromoform (Tribromomethane)	59.5		ug/L	50.0		119	69.2-143			
Bromomethane (Methyl bromide)	47.6		ug/L	50.0		95.2	45.3-138			
2-Butanone (MEK)	51.6		ug/L	50.0		103	10.9-186			
n-Butylbenzene	56.2		ug/L	50.0		112	61.4-151			
sec-Butylbenzene	56.7		ug/L	50.0		113	63.1-145			
tert-Butylbenzene	58.4		ug/L	50.0		117	66.4-137			
Carbon Disulfide	50.5		ug/L	50.0		101	43.1-148			
Carbon tetrachloride	53.9		ug/L	50.0		108	63.1-136			
Chlorobenzene	56.3		ug/L	50.0		113	62-138			
Chloroethane	44.8		ug/L	50.0		89.5	50.5-137			
2-Chloroethyl vinyl ether	51.6		ug/L	50.0		103	75-125			
Chloroform (Trichloromethane)	51.8		ug/L	50.0		104	58.2-138			
Chloromethane (Methyl chloride)	41.4		ug/L	50.0		82.7	47.6-138			
2-Chlorotoluene	52.3		ug/L	50.0		105	74.2-132			
4-Chlorotoluene	55.3		ug/L	50.0		111	74-137			
1,2-Dibromo-3-chloropropane (DBCP)	54.9		ug/L	50.0		110	60.2-132			
Dibromochloromethane	55.9		ug/L	50.0		112	82.2-125			
1,2-Dibromoethane (EDB)	57.8		ug/L	50.0		116	79.4-127			
Dibromomethane	53.2		ug/L	50.0		106	79.9-132			
1,2-Dichlorobenzene	57.5		ug/L	50.0		115	67.3-144			
1,3-Dichlorobenzene	55.0		ug/L	50.0		110	71.6-138			
1,4-Dichlorobenzene	55.8		ug/L	50.0		112	69.4-136			
Dichlorodifluoromethane	39.6		ug/L	50.0		79.1	17.3-171			
1,1-Dichloroethane	53.3		ug/L	50.0		107	57.5-136			
1,2-Dichloroethane (EDC)	52.8		ug/L	50.0		106	67.8-135			
1,1-Dichloroethene	53.0		ug/L	50.0		106	54.8-134			
cis-1,2-Dichloroethene	50.5		ug/L	50.0		101	56.7-137			
trans-1,2-Dichloroethene	50.3		ug/L	50.0		101	67.1-130			
1,1-Dichloropropene	54.2		ug/L	50.0		108	74.7-129			
1,2-Dichloropropane	53.0		ug/L	50.0		106	80.7-123			
1,3-Dichloropropane	57.6		ug/L	50.0		115	81.3-125			
2,2-Dichloropropane	51.3		ug/L	50.0		103	37.3-169			
cis-1,3-Dichloropropene	53.2		ug/L	50.0		106	77-132			
trans-1,3-Dichloropropene	53.7		ug/L	50.0		107	77.8-133			
Ethylbenzene	54.4		ug/L	50.0		109	73.7-132			
Hexachlorobutadiene	57.1		ug/L	50.0		114	75-125			
2-Hexanone	54.8		ug/L	50.0		110	63.3-150			

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Parsons	AETL Job Number:	BED0025	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/13/2023 16:19	

Quality Control Results

Volatile Organic Compounds (EPA 8260B)

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0114 - 5030B (Continued)				**Prepared: 04/11/2023 09:00**						
LCS (B3D0114-BS1)				**Analyzed: 04/11/2023 12:13**						
Iodomethane	49.5		ug/L	50.0		99.1	75-125			
Isopropylbenzene	58.7		ug/L	50.0		117	63.6-142			
p-Isopropyltoluene	57.7		ug/L	50.0		115	65.1-145			
4-Methyl-2-pentanone (MIBK)	57.8		ug/L	50.0		116	70.1-136			
Methyl-tert-butyl ether (MTBE)	51.7		ug/L	50.0		103	59.1-134			
Methylene chloride (DCM)	53.1		ug/L	50.0		106	65.2-130			
Naphthalene	57.9		ug/L	50.0		116	70.5-134			
n-Propylbenzene	56.5		ug/L	50.0		113	76.9-132			
Styrene	58.8		ug/L	50.0		118	76.1-135			
1,1,1,2-Tetrachloroethane	57.1		ug/L	50.0		114	78.3-131			
1,1,2,2-Tetrachloroethane	56.9		ug/L	50.0		114	72.9-125			
Tetrachloroethene	53.2		ug/L	50.0		106	71.7-139			
Toluene (Methyl benzene)	57.7		ug/L	50.0		115	61.7-135			
1,2,3-Trichlorobenzene	58.5		ug/L	50.0		117	70.5-143			
1,2,4-Trichlorobenzene	55.8		ug/L	50.0		112	66.4-153			
1,1,1-Trichloroethane	53.8		ug/L	50.0		108	62.3-136			
1,1,2-Trichloroethane	53.9		ug/L	50.0		108	72-129			
Trichloroethene	53.9		ug/L	50.0		108	66.3-133			
Trichlorofluoromethane	43.3		ug/L	50.0		86.7	57.4-136			
1,2,3-Trichloropropane	56.0		ug/L	50.0		112	73-128			
Trichlorotrifluoroethane (Freon-113)	51.6		ug/L	50.0		103	58.1-145			
1,2,4-Trimethylbenzene	56.7		ug/L	50.0		113	67.1-140			
1,3,5-Trimethylbenzene	54.3		ug/L	50.0		109	66-142			
Vinyl Acetate	55.4		ug/L	50.0		111	51-147			
Vinyl chloride (Chloroethene)	38.8		ug/L	50.0		77.7	41.1-145			
m,p-Xylenes	111		ug/L	100		111	69.2-142			
o-Xylene	57.7		ug/L	50.0		115	68.8-142			
Surrogate: Bromofluorobenzene	*52.4*		*ug/L*	*50.0*		*105*	*75-125*			
Surrogate: Dibromofluoromethane	*63.6*		*ug/L*	*50.0*		*127*	*75-125*			*S6*
Surrogate: Toluene-d8	*59.7*		*ug/L*	*50.0*		*119*	*75-125*			

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Parsons	AETL Job Number:	BED0025	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/13/2023 16:19	

Quality Control Results

Volatile Organic Compounds (EPA 8260B)

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0114 - 5030B (Continued)				**Prepared: 04/11/2023 09:00**						
LCSD (B3D0114-BSD1)				**Analyzed: 04/11/2023 12:52**						
Acetone	50.0		ug/L	50.0		99.9	11.9-199	11.9	20	
Benzene	48.4		ug/L	50.0		96.7	59.1-135	12.0	20	
Bromobenzene (Phenyl bromide)	56.2		ug/L	50.0		112	78.1-130	0.750	20	
Bromochloromethane	47.6		ug/L	50.0		95.2	65.4-140	12.3	20	
Bromodichloromethane	48.6		ug/L	50.0		97.2	80.1-129	11.4	20	
Bromoform (Tribromomethane)	53.5		ug/L	50.0		107	69.2-143	10.6	20	
Bromomethane (Methyl bromide)	50.2		ug/L	50.0		100	45.3-138	5.30	20	
2-Butanone (MEK)	56.1		ug/L	50.0		112	10.9-186	8.30	20	
n-Butylbenzene	57.5		ug/L	50.0		115	61.4-151	2.29	20	
sec-Butylbenzene	56.6		ug/L	50.0		113	63.1-145	0.159	20	
tert-Butylbenzene	56.1		ug/L	50.0		112	66.4-137	4.09	20	
Carbon Disulfide	44.7		ug/L	50.0		89.3	43.1-148	12.3	20	
Carbon tetrachloride	47.2		ug/L	50.0		94.3	63.1-136	13.4	20	
Chlorobenzene	50.1		ug/L	50.0		100	62-138	11.6	20	
Chloroethane	49.5		ug/L	50.0		99.0	50.5-137	10.1	20	
2-Chloroethyl vinyl ether	47.0		ug/L	50.0		94.0	75-125	9.29	20	
Chloroform (Trichloromethane)	46.5		ug/L	50.0		93.1	58.2-138	10.8	20	
Chloromethane (Methyl chloride)	44.9		ug/L	50.0		89.9	47.6-138	8.27	20	
2-Chlorotoluene	55.4		ug/L	50.0		111	74.2-132	5.61	20	
4-Chlorotoluene	55.8		ug/L	50.0		112	74-137	0.953	20	
1,2-Dibromo-3-chloropropane (DBCP)	56.0		ug/L	50.0		112	60.2-132	1.98	20	
Dibromochloromethane	54.6		ug/L	50.0		109	82.2-125	2.24	20	
1,2-Dibromoethane (EDB)	55.4		ug/L	50.0		111	79.4-127	4.21	20	
Dibromomethane	48.0		ug/L	50.0		96.0	79.9-132	10.3	20	
1,2-Dichlorobenzene	56.9		ug/L	50.0		114	67.3-144	1.12	20	
1,3-Dichlorobenzene	55.7		ug/L	50.0		111	71.6-138	1.16	20	
1,4-Dichlorobenzene	54.4		ug/L	50.0		109	69.4-136	2.65	20	
Dichlorodifluoromethane	39.9		ug/L	50.0		79.8	17.3-171	0.856	20	
1,1-Dichloroethane	47.5		ug/L	50.0		95.0	57.5-136	11.4	20	
1,2-Dichloroethane (EDC)	47.7		ug/L	50.0		95.4	67.8-135	10.2	20	
1,1-Dichloroethene	47.6		ug/L	50.0		95.1	54.8-134	10.7	20	
cis-1,2-Dichloroethene	45.5		ug/L	50.0		91.0	56.7-137	10.5	20	
trans-1,2-Dichloroethene	45.1		ug/L	50.0		90.2	67.1-130	10.9	20	
1,1-Dichloropropene	47.9		ug/L	50.0		95.7	74.7-129	12.3	20	
1,2-Dichloropropane	47.0		ug/L	50.0		94.0	80.7-123	12.1	20	
1,3-Dichloropropane	56.2		ug/L	50.0		112	81.3-125	2.60	20	
2,2-Dichloropropane	45.5		ug/L	50.0		91.1	37.3-169	11.9	20	
cis-1,3-Dichloropropene	48.0		ug/L	50.0		95.9	77-132	10.5	20	
trans-1,3-Dichloropropene	48.6		ug/L	50.0		97.3	77.8-133	9.98	20	
Ethylbenzene	48.3		ug/L	50.0		96.6	73.7-132	11.9	20	
Hexachlorobutadiene	53.5		ug/L	50.0		107	75-125	6.51	20	
2-Hexanone	54.8		ug/L	50.0		110	63.3-150	0.0730	20	

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Parsons	AETL Job Number:	BED0025	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/13/2023 16:19	

Quality Control Results

Volatile Organic Compounds (EPA 8260B)

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0114 - 5030B (Continued)				**Prepared: 04/11/2023 09:00**						
LCSD (B3D0114-BSD1)				**Analyzed: 04/11/2023 12:52**						
Iodomethane	46.9		ug/L	50.0		93.8	75-125	5.45	20	
Isopropylbenzene	55.6		ug/L	50.0		111	63.6-142	5.33	20	
p-Isopropyltoluene	56.4		ug/L	50.0		113	65.1-145	2.35	20	
4-Methyl-2-pentanone (MIBK)	52.9		ug/L	50.0		106	70.1-136	8.86	20	
Methyl-tert-butyl ether (MTBE)	46.8		ug/L	50.0		93.6	59.1-134	9.99	20	
Methylene chloride (DCM)	48.4		ug/L	50.0		96.7	65.2-130	9.29	20	
Naphthalene	58.5		ug/L	50.0		117	70.5-134	1.10	20	
n-Propylbenzene	55.2		ug/L	50.0		110	76.9-132	2.47	20	
Styrene	53.7		ug/L	50.0		107	76.1-135	9.12	20	
1,1,1,2-Tetrachloroethane	51.4		ug/L	50.0		103	78.3-131	10.4	20	
1,1,2,2-Tetrachloroethane	58.6		ug/L	50.0		117	72.9-125	2.96	20	
Tetrachloroethene	46.6		ug/L	50.0		93.3	71.7-139	13.2	20	
Toluene (Methyl benzene)	54.9		ug/L	50.0		110	61.7-135	4.99	20	
1,2,3-Trichlorobenzene	51.8		ug/L	50.0		104	70.5-143	12.1	20	
1,2,4-Trichlorobenzene	55.8		ug/L	50.0		112	66.4-153	0.0358	20	
1,1,1-Trichloroethane	47.7		ug/L	50.0		95.3	62.3-136	12.0	20	
1,1,2-Trichloroethane	49.3		ug/L	50.0		98.6	72-129	8.91	20	
Trichloroethene	47.3		ug/L	50.0		94.6	66.3-133	13.0	20	
Trichlorofluoromethane	47.5		ug/L	50.0		95.0	57.4-136	9.12	20	
1,2,3-Trichloropropane	59.5		ug/L	50.0		119	73-128	5.97	20	
Trichlorotrifluoroethane (Freon-113)	45.9		ug/L	50.0		91.9	58.1-145	11.7	20	
1,2,4-Trimethylbenzene	56.4		ug/L	50.0		113	67.1-140	0.531	20	
1,3,5-Trimethylbenzene	56.4		ug/L	50.0		113	66-142	3.83	20	
Vinyl Acetate	49.9		ug/L	50.0		99.7	51-147	10.4	20	
Vinyl chloride (Chloroethene)	38.6		ug/L	50.0		77.2	41.1-145	0.672	20	
m,p-Xylenes	108		ug/L	100		108	69.2-142	2.78	20	
o-Xylene	55.2		ug/L	50.0		110	68.8-142	4.32	20	
Surrogate: Bromofluorobenzene	*52.8*		*ug/L*	*50.0*		*106*	*75-125*			
Surrogate: Dibromofluoromethane	*46.4*		*ug/L*	*50.0*		*92.9*	*75-125*			
Surrogate: Toluene-d8	*53.3*		*ug/L*	*50.0*		*107*	*75-125*			

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Telephone (888) 288-AETL • (818) 845-8200 • www.aetlab.com
A KYZER LABS COMPANY

Parsons	AETL Job Number:	BED0025	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/13/2023 16:19

Quality Control Results

TPH Gasoline Range (EPA 8015B TPH GRO)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0109 - 5030B					**Prepared: 04/10/2023 17:42**						
Method Blank (B3D0109-BLK1)					**Analyzed: 04/10/2023 19:08**						
TPH as Gasoline and Light HC. (C4-C12)	ND	0.00143	0.0100	mg/L							
Surrogate: Bromofluorobenzene	*46.5*			*ug/L*	*50.0*		*93.0*	*75-120*			

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A KYZER LABS COMPANY

Parsons	AETL Job Number:	BED0025	Site:	6850 CA-27	
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303	
Pasadena, CA 91124	Attention:	Justin King			
	Project Name:	Canoga Park High School	Reported:	04/13/2023 16:19	

Quality Control Results

TPH Gasoline Range (EPA 8015B TPH GRO)

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0109 - 5030B (Continued)				**Prepared: 04/10/2023 17:42**						
LCS (B3D0109-BS1)				**Analyzed: 04/10/2023 17:42**						
TPH as Gasoline and Light HC. (C4-C12)	504		ug/L	500		101	75-125			
Surrogate: Bromofluorobenzene	*47.0*		*ug/L*	*50.0*		*94.0*	*75-120*			
LCSD (B3D0109-BSD1)				**Analyzed: 04/10/2023 18:25**						
TPH as Gasoline and Light HC. (C4-C12)	515		ug/L	500		103	75-125	2.31	15	
Surrogate: Bromofluorobenzene	*44.6*		*ug/L*	*50.0*		*89.3*	*75-120*			
Duplicate (B3D0109-DUP1)	**Source: BED0025-01**			**Analyzed: 04/10/2023 20:35**						
TPH as Gasoline and Light HC. (C4-C12)	ND	0.00143	0.0100 mg/L		ND			NA	15	
Surrogate: Bromofluorobenzene	*52.2*		*ug/L*	*50.0*		*104*	*75-120*			

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A KYZER LABS COMPANY

Parsons	AETL Job Number:	BED0025	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/13/2023 16:19

Quality Control Results

TPH Diesel Range (EPA 8015B TPH DRO/ORO)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0139 - 3510C					**Prepared: 04/12/2023 11:02**						
Method Blank (B3D0139-BLK1)					**Analyzed: 04/12/2023 17:17**						
TPH as Diesel (C13-C22)	ND	0.0123	0.100	mg/L							
TPH as Heavy Hydrocarbons (C23-40)	ND	0.0123	0.100	mg/L							
TPH Total as Diesel and Heavy HC (C13-C40)	ND	0.0123	0.100	mg/L							
Surrogate: Chlorobenzene	*183*			*mg/L*	*200*		*91.6*	*60-125*			

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Parsons	AETL Job Number:	BED0025	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/13/2023 16:19

Quality Control Results

TPH Diesel Range (EPA 8015B TPH DRO/ORO)

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3D0139 - 3510C (Continued)				**Prepared: 04/12/2023 11:02**						
LCS (B3D0139-BS1)				**Analyzed: 04/12/2023 14:59**						
TPH as Diesel (C13-C22)	5.06	0.100	mg/L	5.00		101	75-125			
Surrogate: Chlorobenzene	*169*		*mg/L*	*200*		*84.3*	*60-125*			
LCSD (B3D0139-BSD1)				**Analyzed: 04/12/2023 15:43**						
TPH as Diesel (C13-C22)	5.14	0.100	mg/L	5.00		103	75-125	1.53	20	
Surrogate: Chlorobenzene	*170*		*mg/L*	*200*		*85.1*	*60-125*			

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Parsons	AETL Job Number:	BED0025	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/13/2023 16:19

Qualifiers and Definitions

Item	Qualifiers
B1	This analyte was found in the method blank, which was possibly contaminated during sample preparation. The batch was accepted since this analyte was either not detected or more than 10 times of the blank value for all the samples in the batch.
D	Sample was analyzed under dilution due to matrix interference.
DIL	Result for the compound reported from diluted analysis.
J	Analyte was detected. However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Reporting Limit (RL).
S6	Surrogate recovery is outside control limits due to matrix interference.

Item	Definitions
% wt	Percent Weight
%REC	Percent Recovery
°F	Degrees Fahrenheit
AETL	American Environmental Testing Laboratory, LLC
C	Carbon
CARB	California Air Resources Board
COC	Chain of Custody
Cresols	3-methylphenol/4-methylphenol coelute and cannot be chromatographically separated. Due to this coeluting isomer pair phenomenon, the laboratory uses a single cresol (4-methylphenol) as calibration standard for 3-methylphenol/4-methylphenol.
CRM	Certified Reference Material
DPD	Department of Planning and Development
DRO	Diesel Range Organics
Dup	Duplicate
ELAP	Environmental Laboratory Accreditation Program
EPA	Environmental Protection Agency
GC/FID	Gas Chromatography Flame Ionization Detection
GRO	Gasoline Range Organics
HC	Hydrocarbon
HEM	Hexane Extractable Material
HMU	Hazardous Material Unit
ICP/MS	Inductively Coupled Plasma Mass Spectrometry
LACSD	Los Angeles County Sanitation Districts
LCS	Laboratory Control Sample - A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes.
LCSD	Laboratory Control Sample Duplicate - A replicate of Laboratory Control Sample.
LOQ	Limit of Quantitation
MDL	Method Detection Limit - The minimum measured concentration of a substance that can be reported with 99% confidence. MDL is statistically derived number which is specific for each instrument, each method and each compound.
mg/kg	Miligrams per Kilogram

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Parsons	AETL Job Number:	BED0025	Site:	6850 CA-27
100 West Walnut Street	Project Number:	[none]		Canoga Park, CA 91303
Pasadena, CA 91124	Attention:	Justin King		
	Project Name:	Canoga Park High School	Reported:	04/13/2023 16:19

mg/L	Miligrams per Liter
ml/L/hr	Milliliter per Liter per Hour
MRO	Motor oil Range Organics
MS	Matrix Spike - A sample prepared, taken through all sample preparation and analytical steps of the procedure and analyzed as an independent test results.
MSD	Matrix Spike Duplicate - A replicate of Matrix Spike Sample.
N	No
ND	Analyte is not detected below Method Detection Limit.
ng/m3	Nanograms per cubic meter
NIOSH	National Institute for Occupational Safety and Health
nL/L	Nanoliters per Liter
NTU	Nephelometric Turbidity Units
Ohm-cm	Ohms per centimeter
ORO	Oil Range Organics
OSHA	Occupational Safety and Health Administration
PCB	Polychlorinated Biphenyl
PSU	Practical Salinity Unit
RL	Reporting Limit - The lowest concentration at which an analyte can be detected in a sample and its concentration can be reported with a specified degree of confidence, accuracy and precision. For usage at AETL, RL is equivalant to LOQ.
RPD	Relative Percent Difference
SIM	Selective Ion Monitoring
SM	Standard Method
SPLP	Synthetic Precipitation Leaching Procedure
STLC	Soluble Threshold Limit Concentration
TCLP	Toxicity Characteristic Leaching Procedure
TPH	Total Petroleum Hydrocarbons
TTLC	Total Threshold Limit Concentrations
ug/kg	Micrograms per Kilogram
ug/L	Micrograms per Liter
ug/m3	Micrograms per cubic meter
WET	Waste Extraction Test
Y	Yes
ZHE	Zero Headspace Extraction

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LA Testing
520 Mission Street South Pasadena, CA 91030
Phone/Fax: (323) 254-9960 / (323) 254-9982
http://www.LATesting.com / pasadenalab@latesting.com

LA Testing Order ID: 322309025
Customer ID: 32AETL21
Customer PO:
Project ID:

Attn: Hailley Coleman
American Environmental Testing Lab., LLC
2840 N. Naomi St.
Burbank, CA 91504

Phone: (818) 845-8200
Fax: (818) 845-8840
Received: 04/07/2023
Analyzed: 04/12/2023

Proj: BED0025

Test Report: Determination of Asbestos Structures > 10µm in Water Performed by the 100.2 Method (EPA 600/R-94/134)

Sample ID Client / EMSL	Sample Filtration Date/Time	Original Sample Vol. Filtered (ml)	Effective Filter Area (mm²)	Area Analyzed (mm²)	ASBESTOS Asbestos Types	Fibers Detected	Analytical Sensitivity	Concentration	Confidence Limits
								MFL (million fibers per liter)	
BED0025-01 322309025-0001	4/7/2023 03:10 PM	0.10	1288	0.2540	None Detected	ND	51.00	<51.00	0.00 - 190.00

Collection Date/Time: *04/06/2023 08:00 AM*

Due to excessive particulate the analytical sensitivity of 0.2 MFL as required by the method was not reached.

Analyst(s)
Kyeong Corbin (1)

Jerry Drapala Ph.D, Laboratory Manager
or Other Approved Signatory

Any questions please contact Jerry Drapala.

Initial report from: 04/12/2023 10:03:59

LA Testing maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by LA Testing. LA Testing bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. Estimation of uncertainty is available on request. Sample collection and containers provided by the client, acceptable bottle blank level is defined as ≤0.01MFL>10um. ND=None Detected. No Fibers Detected: the value will be reported as less than 369% of the concentration equivalent to one fiber. 1 to 4 fibers: The result will be reported as less than the corresponding upper 95% confidence limit (Poisson).5 to 30 fibers: Mean and 95% confidence intervals will be reported on the basis of the Poisson assumption. When more than 30 fibers are counted, both the Gaussian 95% confidence interval and the Poisson 95% confidence interval will be calculated. The large of these two intervals will be selected for data reporting. When the Gaussian 95% confidence interval is selected for data reporting, the Poisson will also be noted.

Samples analyzed by LA Testing South Pasadena, CA CA ELAP 2283

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June 20, 2023

AETL Job No: BEF0098
Received Date: 06/12/2023
Project Number: [none]

Parsons
100 West Walnut Street
Pasadena, CA 91124
Telephone: (626) 440-6200

Attention: Justin King

Project Name: Canoga Park High School

Site: LAUSD Canoga
6850 CA-27
Canoga Park, CA 91303

Enclosed please find the results of analyses for samples which were analyzed as specified on the attached chain of custody. If you have any questions concerning this report, please do not hesitate to call.

Checked By:

Corey Jones
Project Manager

Approved By:

Hailley Coleman
Project Manager

Table of Contents

Client Project Name: Canoga Park High School Project Number: [none]
Work Order Number: BEF0098

1 Cover Letter 1
2 Sample Condition on Receipt 3
3 Chain of Custody 4
4 Cooler Receipt Forms 10
5 Case Narrative 11
6 Samples Received 12
7 Positive Hits Summary 33
8 Analytical Results 35
9 Quality Control Results 42
10 Qualifiers and Definitions 44
11 Sub Contracted Analysis 46

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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEF0098 [none] Justin King Canoga Park High School	Site: Reported:	LAUSD Canoga 6850 CA-27 Canoga Park, CA 91303 06/20/2023 16:17

Sample Condition on Receipt

Cooler ID: Default Cooler **Temperature: 5.7 °C**

Are the COCs Correct	Y		
Labels Legible	Y	Containers In Good Condition	Y
COC/Labels Agree	Y	Samples Preserved Properly	Y
Sufficient Sample Volume	Y	Sufficient Holding Time for all Tests	Y
Sample Labels intact	Y	Received on Ice	Y

Cooler ID: New Cooler **Temperature: 5.7 °C**

Are the COCs Correct	Y		
Labels Legible	Y	Containers In Good Condition	Y
COC/Labels Agree	Y	Samples Preserved Properly	Y
Sufficient Sample Volume	Y	Sufficient Holding Time for all Tests	Y
Sample Labels intact	Y	Received on Ice	Y

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American Environmental Testing Laboratory Inc.

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CHAIN OF CUSTODY RECORD

108476

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut Street Pasadena, CA 91124
PHONE / FAX: (310) 809-5793
PROJECT NAME: Canoga Park High School
PROJECT #:
SITE NAME AND ADDRESS: LAUSD Canoga 6850 CA-27, Canoga Park, CA 91303
PO #:

AETL JOB No. BEF0079

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	TEST INSTRUCTIONS & COMMENTS
1	SB-26-WS-D0.5	BEF0079-01	6/12/2023	0815	Soil	1 x 4oz	none		X	
2	SB-26-WS-D2.0	-02		0817						Hold
3	SB-26-WS-D3.0	-03		0819						Hold
4	SB-26-W10-D0.5	-04		0825					X EB	Hold
5	SB-26-W10-D2.0	-05		0827						Hold
6	SB-26-W10-D3.0	-06		0829						Hold
7	SB-26-S5-D0.5	-07		0837					X	
8	SB-26-S5-D0.5-DUP	-08		~~0841~~ 0839					X	
9	SB-26-S5-D2.0	-09		~~0843~~ 0841						Hold
10	SB-26-S5-D3.0	-10		~~0845~~ 0843						Hold
11	SB-26-S10-D0.5	-11		0849					X EB	Hold
12	SB-26-S10-D2.0	-12		0851						Hold
13	SB-26-S10-D3.0	-13		0853						Hold
14	SB-26-E5-D0.5	-14		0901					X	
15	SB-26-E5-D2.0	-15		0903						Hold

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y / N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

TURN AROUND TIME

☑ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY ☐ PDF ☐ GEOTRACKER (GLOBAL ID) _____ ☐ OTHER (PLEASE SPECIFY) _____

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: E. Soto	Signature:	Signature:
Printed Name: Edward Dabas	Printed Name:	Printed Name:
Date: 6/12/2023 Time: 1600	Date: Time:	Date: Time:
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: AETL 3.**
Signature:	Signature:	Signature:
Printed Name:	Printed Name:	Printed Name:
Date: Time:	Date: Time:	Date: 6/13/23 Time: 16:00

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

CHAIN OF CUSTODY RECORD

108477

AETL JOB No. BEF0098

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut Street Pasadena, CA 91124
PHONE
FAX: (310) 809-5793
PROJECT NAME: LAUSD Canoga
PROJECT #
SITE NAME AND ADDRESS: Canoga Park Highschool 6850 CA-27, Canoga Park, CA 91303
PO #

ANALYSIS REQUESTED

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010 B)	Arsenic (6020)	TEST INSTRUCTIONS & COMMENTS
1	SB-26-E5-D30	BEF0098-16	6/12/2023	0905	Soil	1 x 9oz	none			Hold
2	SB-26-E10-D0.5	-17		0912						Hold
3	SB-26-E10-D2.0	-18		0914						Hold
4	SB-26-E10-D3.0	-19		0916						Hold
5	SB-26-NW5-D0.5	-20		0806					X	
6	SB-26-NW5-D2.0	-21		0808						Hold
7	SB-26-NW5-D3.0	-22		0810						Hold
8	SB-1-NE5-D0.5	-23		1005				X	X	
9	SB-1-NE5-D2.0	-24		1007						Hold
10	SB-1-NE5-D3.0	-25		1010						Hold
11	SB-1-NW5-D0.5	-26		1016				X	X	
12	SB-1-NW5-D2.0	-27		1018						Hold
13	SB-1-NW5-D3.0	-28		1020						Hold
14	SB-1-NW10-D0.5	-29		1025						Hold
15	SB-1-NW10-D2.0	-30		1027						Hold

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y/ N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: [signature]	Signature:	Signature:
Printed Name: Edward Dabys	Printed Name:	Printed Name:
Date: 6/12/2023 Time: 1600	Date: Time:	Date: Time:

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: 3.
Signature:	Signature:	Signature: [signature] AETL
Printed Name:	Printed Name:	Printed Name: Loreta Pineyonsian
Date: Time:	Date: Time:	Date: 6/12/23 Time: 16:00

TURN AROUND TIME

☑ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY
☐ PDF
☐ GEOTRACKER (GLOBAL ID) _____
☐ OTHER (PLEASE SPECIFY) _____

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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2834 NORTH NAOMI ST. BURBANK, CALIFORNIA 91504 DHS # 1541 LACSD# 10181
TEL (888) 288-AETL (818) 845-8200 FAX (818) 845-8840 www.aetlab.com

CHAIN OF CUSTODY RECORD

111391

AETL JOB No. BEF0098

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut Street Pasadena, CA 91124
PHONE FAX: (310) 809-5793
PROJECT NAME: LAUSD Canoga
PROJECT #:
SITE NAME AND ADDRESS: Canoga Park Highschool 6850 CA-27 Canoga Park, CA 91303
PO #:

ANALYSIS REQUESTED

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	TEST INSTRUCTIONS & COMMENTS
1	SB-1-NW10-D3.0	BEF0098-31	6/12/23	1029	Soil	1x 9oz	none			Hold
2	SB-1-SW5-D0.5	32		1039				X	X	
3	SB-1-SW5-D0.5-DUP	33		1041				X	X	
4	SB-1-SW5-D2.0	34		1043						Hold
5	SB-1-SW5-D3.0	35		1045						Hold
6	SB-1-SW10-D0.5	36		1056						Hold
7	SB-1-SW10-D2.0	37		1058						Hold
8	SB-1-SW10-D3.0	38		1100						Hold
9	~~SB-3-NW5-D0.5~~									
10	~~SB-3-NW5-D0.5-DUP~~									
11	~~SB-3-NW5-2.0~~									
12	~~SB-3-NW5-3.0~~									
13	~~SB-3-NW10-0.5~~									
14	~~SB-3-NW10-2.0~~									
15	~~SB-3-NW10-3.0~~									

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y/ N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: E. Salm	Signature:	Signature:
Printed Name: Edward Dabys	Printed Name:	Printed Name:
Date: 6/12/2023 Time: 1600	Date: Time:	Date: Time:

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: AETL 3.
Signature:	Signature:	Signature: Greta Giregorsin
Printed Name:	Printed Name:	Printed Name:
Date: Time:	Date: Time:	Date: 6/12/23 Time: 16:00

TURN AROUND TIME: ☑ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED: ☐ HARD COPY ☐ PDF ☐ GEOTRACKER (GLOBAL ID) ☐ OTHER (PLEASE SPECIFY)

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CHAIN OF CUSTODY RECORD

111392

AETL JOB No. BEF0098

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut Street Pasadena, CA 91124
PHONE FAX: (310) 809-5793
PROJECT NAME: LAUSD Canoga
PROJECT #:
SITE NAME AND ADDRESS: Canoga Park Highschool 6850 CA27 Canoga Park, CA 91303
PO #:

ANALYSIS REQUESTED

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)									TEST INSTRUCTIONS & COMMENTS
1	SB-3-SW5-D0.5	BEF0098-39	6/12/2023	1124	Soil	1x9oz	none	X										
2	SB-3-SW5-D2.0	40		1126														Hold
3	SB-3-SW5-D3.0	41		1128														Hold
4	SB-3-SW10-D0.5	42		1136														Hold
5	SB-3-SW10-D2.0	43		1138														Hold
6	SB-3-SW10-D3.0	44		1140														Hold
7	SB-3-SE5-D0.5	45		1146				X										
8	SB-3-SE5-D0.5-Dup	46		1147				X										
9	SB-3-SE5-D2.0	47		1148														Hold
10	SB-3-SE5-D3.0	48		1150														Hold
11	SB-3-SE10-D0.5	49		1200														Hold
12	SB-3-SE10-D2.0	50		1202														Hold
13	SB-3-SE10-D3.0	51		1204														Hold
14	SB-44-W5-D0.5	52		1253					X									
15	SB-44-W5-D2.0	53		1255														Hold

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y / N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: E. Dabs	Signature:	Signature:
Printed Name: Edward Dabs	Printed Name:	Printed Name:
Date: 6/12/2023 Time: 1600	Date: Time:	Date: Time:

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: 3.
Signature:	Signature:	Signature: AETL
Printed Name:	Printed Name:	Printed Name: Preta Qiragans
Date: Time:	Date: Time:	Date: 6/12/23 Time: 16:00

TURN AROUND TIME

☑ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY
☐ PDF
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☐ OTHER (PLEASE SPECIFY) _____

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CHAIN OF CUSTODY RECORD

111393

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut St. Pasadena, CA 91124
PHONE / FAX: (310) 804-5743
PROJECT NAME: LAUSD Canoga
PROJECT #:
SITE NAME AND ADDRESS: Canoga Park Highschool 6850 CA-27, Canoga Park, CA 91303
PO #:
AETL JOB No. BEF0096
Page 5 of 6

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	TEST INSTRUCTIONS & COMMENTS
1	SB-44-WS-D3.0	BEF0096-54	6/12/2023	1257	Soil	1 x 9oz	none			
2	SB-44-N5-D0.5	55		1305					X	Hold
3	SB-44-N5-D2.0	56		1308						Hold
4	SB-44-N5-D3.0	57		1310						Hold
5	SB-44-N10-D0.5	58		1317						Hold
6	SB-44-N10-D2.0	59		1319						Hold
7	SB-44-N10-D3.0	60		1321						Hold
8	SB-44-S10-D0.5	61		1329					X	
9	SB-44-S10-D2.0	62		1331						Hold
10	SB-44-S10-D3.0	63		1334						Hold
11	SB-5-E5-D0.5	64		1352					X	
12	SB-5-E5-D2.0	65		1354						Hold
13	SB-5-E5-D3.0	66		1357						Hold
14	SB-5-NE5-D0.5	67		1403					X	
15	SB-5-NE5-D0.5dup	68		1405					X	

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y/ N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

TURN AROUND TIME

☑ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY ☐ PDF ☐ GEOTRACKER (GLOBAL ID) _____ ☐ OTHER (PLEASE SPECIFY) _____

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: E. Dalys	Signature:	Signature:
Printed Name: Edward Dalys	Printed Name:	Printed Name:
Date: 6/12/2023 Time: 1600	Date: Time:	Date: Time:
RECEIVED BY: 1.	**RECEIVED BY:** 2.	**RECEIVED BY LABORATORY:** 3.
Signature:	Signature:	Signature:
Printed Name:	Printed Name:	Printed Name:
Date: Time:	Date: Time:	Date: 6/13/23 Time: 1600

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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CHAIN OF CUSTODY RECORD

111394

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut Street Pasadena, CA 91124
PHONE / FAX: (310) 809-5743
PROJECT NAME: LAUSD Canoga
PROJECT #:
SITE NAME AND ADDRESS: Canoga Park Highschool 6850 CA-27, Canoga Park, CA 91303
PO #:
AETL JOB No. BEF0098
Page 6 of 6

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	TEST INSTRUCTIONS & COMMENTS
1	SB-5-NE5-D2.0	BEF0098-69	6/12/2023	1407	Soil	1 x 9oz	none			
2	SB-5-NE5-D3.0	-70		1410						Hold
3	SB-5-NE10-D0.5	-71		1414						Hold
4	SB-5-NE10-D2.0	-72		1416						Hold
5	SB-5-NE10-D3.0	-73		1418						Hold
6	SB-5-NW5-D0.5	-74	1432	~~1434~~ ED						Hold
7	SB-5-NW5-D2.0	-75	1437	1426 ED				X		
8	SB-5-NW5-D3.0	-76	1439	1428 ED						Hold
9	SB-5-W5-D0.5	-77	1424	~~1434~~ ED						Hold
10	SB-5-W5-D2.0	-78	1426	1437 ED				X		
11	SB-5-W5-D3.0	-79	1428	~~1434~~ ED						Hold
12										Hold
13										
14										
15										

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y/ N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

TURN AROUND TIME

☑ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY ☐ PDF ☐ GEOTRACKER (GLOBAL ID) _____ ☐ OTHER (PLEASE SPECIFY) _____

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: E. Dabys	Signature:	Signature:
Printed Name: Edward Dabys	Printed Name:	Printed Name:
Date: 6/12/2023 Time: 1600	Date: Time:	Date: Time:
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: 3.**
Signature:	Signature:	Signature:
Printed Name:	Printed Name:	Printed Name:
Date: Time:	Date: Time:	Date: 6/13 Time:

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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COOLER RECEIPT FORM

Client Name: Parsons

Project Name: Canoga Park High School Project No.:

AETL Job Number: BEF0102

Date Received: 06/12/2023 Received by: Greta G

Carrier: ☐ AETL Courier ☑ Client ☐ GSL ☐ FedEx ☐ UPS
☐Others:

Samples were received in: ☑ Cooler (__1_____) ☐ Other (Specify):

Sample Container Temperature: __5.7__ °C IR Gun S/N: 51941911MV

Type of sample containers: ☐ VOA, ☐ Glass bottles, ☑Wide mouth jars, ☐HDPE bottles, ☐ Metal sleeves, ☐ Acetate sleeves, ☐ 5035 Kit: ☐ AETL or ☐ Client, ☐ Tedlar Bags, Summa Canister: ☐ 6L, ☐ 3L, ☐ 1L, Others (Specify): _____

How are samples preserved: ☐ None, ☑ Ice, ☐ Blue Ice, ☐ Dry Ice
☑ None, ☐ HNO_3, ☐ NaOH, ☐ ZnOAc, ☐ HCl, ☐ $Na_2S_2O_3$, ☐ MeOH, ☐ $NaHSO_4$
☐ Other (Specify):

	Yes	No	N/A	Note or Comment
1. Are the COCs Correct?	✔			
2. Are Sample labels legible & indelible ink?	✔			
3. Do samples match the COC?	✔			
4. Are the required analyses clear?	✔			
5. Is there enough samples for required analysis?	✔			
6. Does cooler or samples have custody seal(s)?			✔	
7. Are sample containers in good condition?	✔			
8. Are samples preserved?	✔			
9. Are samples preserved properly for the intended analysis?	✔			
10. Are the VOAs free of headspace? See footnote.			✔	
11. Are the jars free of headspace?			✔	

* = see note below. N/A = Not Applicable

PLEASE NOTE ALL SAMPLES WILL BE DISPOSED OF 30 DAYS AFTER RECEIVING DATE. IF AETL IS INFORMED OTHERWISE, THERE WILL BE A STORAGE CHARGE PER SAMPLE PER MONTH FOR ANY SAMPLE HELD BEYOND 30 DAYS.

◯ Example maximum headspace bubble size; acceptance criteria not to exceed 5-6 mm in diameter.

For headspace bubbles exceeding 6 mm in diameter, sample receiving will tag the VOA and notify the Project Manager. The Project Manager will contact client for Analyze or Resample instructions.

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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEF0098 [none] Justin King Canoga Park High School	Site: Reported:	LAUSD Canoga 6850 CA-27 Canoga Park, CA 91303 06/20/2023 16:17

Case Narrative

The following "Sample Received" Section summarizes the samples received and associated analyses requested as specified on the enclosed chain of custody.

Results as reported by the laboratory apply only to 1) the items tested, 2) as the samples are received, and 3) the accuracy of information provided. Information supplied by the customer that may affect validity of results and may be contained in this report include Project Name/Number, Site Location, Sample Locations, Sampling Dates/Times, Sample ID, Sample Preservation, Sample Matrix, Sample Properties, Field Blanks, Field Duplicates, Field Spikes, and Site Historical Data.

Accreditation applies only to the test methods listed on each scope of accreditation held by the laboratory; certifications held by the laboratory may not apply to results supplied in this report.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

Qualifiers are noted in the report.

The samples were subcontracted to Asset Laboratories for EPA 6020-As. Please see attached report for results.

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEF0098 [none] Justin King Canoga Park High School	Site: Reported:	LAUSD Canoga 6850 CA-27 Canoga Park, CA 91303 06/20/2023 16:17

Samples Received

AETL received the following samples on 06/12/2023 with the following specifications

Client ID SB-26-W5-D0.5 — **Sample Date** 06/12/2023 8:15

Lab ID	Matrix	Quantity of Containers
BEF0098-01	Soil	2

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Client ID SB-26-W5-D2.0 — **Sample Date** 06/12/2023 8:17

Lab ID	Matrix	Quantity of Containers
BEF0098-02	Soil	1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

Client ID SB-26-W5-D3.0 — **Sample Date** 06/12/2023 8:19

Lab ID	Matrix	Quantity of Containers
BEF0098-03	Soil	1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

Client ID SB-26-W10-D0.5 — **Sample Date** 06/12/2023 8:25

Lab ID	Matrix	Quantity of Containers
BEF0098-04	Soil	1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

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Parsons	AETL Job Number:	BEF0098	Site:	LAUSD Canoga	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	Canoga Park High School	Reported:	06/20/2023 16:17	

Samples Received

(Continued)

AETL received the following samples on 06/12/2023 with the following specifications

Client ID SB-26-W10-D2.0 — **Sample Date** 06/12/2023 8:27

Lab ID	Matrix	Quantity of Containers
BEF0098-05	Soil	1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

Client ID SB-26-W10-D3.0 — **Sample Date** 06/12/2023 8:29

Lab ID	Matrix	Quantity of Containers
BEF0098-06	Soil	1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

Client ID SB-26-S5-D0.5 — **Sample Date** 06/12/2023 8:37

Lab ID	Matrix	Quantity of Containers
BEF0098-07	Soil	2

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Client ID SB-26-S5-D0.5-DUP — **Sample Date** 06/12/2023 8:39

Lab ID	Matrix	Quantity of Containers
BEF0098-08	Soil	2

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEF0098 [none] Justin King Canoga Park High School	Site: Reported:	LAUSD Canoga 6850 CA-27 Canoga Park, CA 91303 06/20/2023 16:17

Samples Received
(Continued)

AETL received the following samples on 06/12/2023 with the following specifications

Client ID SB-26-S5-D2.0 — **Sample Date** 06/12/2023 8:41

Lab ID	Matrix	Quantity of Containers
BEF0098-09	Soil	1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

Client ID SB-26-S5-D3.0 — **Sample Date** 06/12/2023 8:43

Lab ID	Matrix	Quantity of Containers
BEF0098-10	Soil	1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

Client ID SB-26-S10-D0.5 — **Sample Date** 06/12/2023 8:49

Lab ID	Matrix	Quantity of Containers
BEF0098-11	Soil	1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

Client ID SB-26-S10-D2.0 — **Sample Date** 06/12/2023 8:51

Lab ID	Matrix	Quantity of Containers
BEF0098-12	Soil	1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEF0098 [none] Justin King Canoga Park High School	Site: Reported:	LAUSD Canoga 6850 CA-27 Canoga Park, CA 91303 06/20/2023 16:17

Samples Received
(Continued)

AETL received the following samples on 06/12/2023 with the following specifications

Client ID SB-26-S10-D3.0 — **Sample Date** 06/12/2023 8:53

Lab ID	Matrix	Quantity of Containers
BEF0098-13	Soil	1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

Client ID SB-26-E5-D0.5 — **Sample Date** 06/12/2023 9:01

Lab ID	Matrix	Quantity of Containers
BEF0098-14	Soil	2

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Client ID SB-26-E5-D2.0 — **Sample Date** 06/12/2023 9:03

Lab ID	Matrix	Quantity of Containers
BEF0098-15	Soil	1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

Client ID SB-26-E5-D3.0 — **Sample Date** 06/12/2023 9:05

Lab ID	Matrix	Quantity of Containers
BEF0098-16	Soil	1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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Parsons	AETL Job Number:	BEF0098	Site:	LAUSD Canoga	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	Canoga Park High School	Reported:	06/20/2023 16:17	

Samples Received

(Continued)

AETL received the following samples on 06/12/2023 with the following specifications

Client ID SB-26-E10-D0.5 — **Sample Date** 06/12/2023 9:12

Lab ID	Matrix	Quantity of Containers
BEF0098-17	Soil	1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

Client ID SB-26-E10-D2.0 — **Sample Date** 06/12/2023 9:14

Lab ID	Matrix	Quantity of Containers
BEF0098-18	Soil	1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

Client ID SB-26-E10-D3.0 — **Sample Date** 06/12/2023 9:16

Lab ID	Matrix	Quantity of Containers
BEF0098-19	Soil	1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

Client ID SB-26-NW5-D0.5 — **Sample Date** 06/12/2023 8:06

Lab ID	Matrix	Quantity of Containers
BEF0098-20	Soil	2

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEF0098 [none] Justin King Canoga Park High School	Site: Reported:	LAUSD Canoga 6850 CA-27 Canoga Park, CA 91303 06/20/2023 16:17

Samples Received
(Continued)

AETL received the following samples on 06/12/2023 with the following specifications

Client ID SB-26-NW5-D2.0 — **Sample Date** 06/12/2023 8:08

Lab ID	Matrix	Quantity of Containers
BEF0098-21	Soil	1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

Client ID SB-26-NW5-D3.0 — **Sample Date** 06/12/2023 8:10

Lab ID	Matrix	Quantity of Containers
BEF0098-22	Soil	1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

Client ID SB-1-NE5-D0.5 — **Sample Date** 06/12/2023 10:05

Lab ID	Matrix	Quantity of Containers
BEF0098-23	Soil	2

Method	Analyte	Units	TAT
EPA 6010B	Lead, total by ICP	mg/kg	5
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Client ID SB-1-NE5-D2.0 — **Sample Date** 06/12/2023 10:07

Lab ID	Matrix	Quantity of Containers
BEF0098-24	Soil	1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

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Parsons	AETL Job Number:	BEF0098	Site:	LAUSD Canoga	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	Canoga Park High School	Reported:	06/20/2023 16:17	

Samples Received

(Continued)

AETL received the following samples on 06/12/2023 with the following specifications

Client ID			Sample Date
SB-1-NE5-D3.0			06/12/2023 10:10
Lab ID		**Matrix**	**Quantity of Containers**
BEF0098-25		Soil	1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

Client ID			Sample Date
SB-1-NW5-D0.5			06/12/2023 10:16
Lab ID		**Matrix**	**Quantity of Containers**
BEF0098-26		Soil	2

Method	Analyte	Units	TAT
EPA 6010B	Lead, total by ICP	mg/kg	5
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Client ID			Sample Date
SB-1-NW5-D2.0			06/12/2023 10:18
Lab ID		**Matrix**	**Quantity of Containers**
BEF0098-27		Soil	1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

Client ID			Sample Date
SB-1-NW5-D3.0			06/12/2023 10:20
Lab ID		**Matrix**	**Quantity of Containers**
BEF0098-28		Soil	1

Method	Analyte	Units	TAT

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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEF0098 [none] Justin King Canoga Park High School	Site: Reported:	LAUSD Canoga 6850 CA-27 Canoga Park, CA 91303 06/20/2023 16:17

Samples Received
(Continued)

AETL received the following samples on 06/12/2023 with the following specifications

Archive	**Sample On Hold**	**N/A**	**0**

Client ID SB-1-NW10-D0.5 — **Sample Date** 06/12/2023 10:25

Lab ID	Matrix	Quantity of Containers
BEF0098-29	Soil	1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

Client ID SB-1-NW10-D2.0 — **Sample Date** 06/12/2023 10:27

Lab ID	Matrix	Quantity of Containers
BEF0098-30	Soil	1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

Client ID SB-1-NW10-D3.0 — **Sample Date** 06/12/2023 10:29

Lab ID	Matrix	Quantity of Containers
BEF0098-31	Soil	1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

Client ID SB-1-SW5-D0.5 — **Sample Date** 06/12/2023 10:39

Lab ID	Matrix	Quantity of Containers
BEF0098-32	Soil	2

Method	Analyte	Units	TAT

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Parsons	AETL Job Number:	BEF0098	Site:	LAUSD Canoga	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	Canoga Park High School	Reported:	06/20/2023 16:17	

Samples Received
(Continued)

AETL received the following samples on 06/12/2023 with the following specifications

EPA 6010B	Lead, total by ICP	mg/kg	5
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Client ID: SB-1-SW5-D0.5-DUP
Sample Date: 06/12/2023 10:41
Lab ID: BEF0098-33
Matrix: Soil
Quantity of Containers: 2

Method	Analyte	Units	TAT
EPA 6010B	Lead, total by ICP	mg/kg	5
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Client ID: SB-1-SW5-D2.0
Sample Date: 06/12/2023 10:43
Lab ID: BEF0098-34
Matrix: Soil
Quantity of Containers: 1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

Client ID: SB-1-SW5-D3.0
Sample Date: 06/12/2023 10:45
Lab ID: BEF0098-35
Matrix: Soil
Quantity of Containers: 1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

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Parsons	AETL Job Number:	BEF0098	Site:	LAUSD Canoga	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	Canoga Park High School	Reported:	06/20/2023 16:17	

Samples Received
(Continued)

AETL received the following samples on 06/12/2023 with the following specifications

Client ID SB-1-SW10-D0.5 — **Sample Date** 06/12/2023 10:56

Lab ID	Matrix	Quantity of Containers
BEF0098-36	Soil	1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

Client ID SB-1-SW10-D2.0 — **Sample Date** 06/12/2023 10:58

Lab ID	Matrix	Quantity of Containers
BEF0098-37	Soil	1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

Client ID SB-1-SW10-D3.0 — **Sample Date** 06/12/2023 11:00

Lab ID	Matrix	Quantity of Containers
BEF0098-38	Soil	1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

Client ID SB-3-SW5-D0.5 — **Sample Date** 06/12/2023 11:24

Lab ID	Matrix	Quantity of Containers
BEF0098-39	Soil	1

Method	Analyte	Units	TAT
EPA 6010B	Lead, total by ICP	mg/kg	5

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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEF0098 [none] Justin King Canoga Park High School	Site: Reported:	LAUSD Canoga 6850 CA-27 Canoga Park, CA 91303 06/20/2023 16:17

Samples Received

(Continued)

AETL received the following samples on 06/12/2023 with the following specifications

Client ID	Sample Date
SB-3-SW5-D2.0	06/12/2023 11:26

Lab ID	Matrix	Quantity of Containers
BEF0098-40	Soil	1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

Client ID	Sample Date
SB-3-SW5-D3.0	06/12/2023 11:28

Lab ID	Matrix	Quantity of Containers
BEF0098-41	Soil	1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

Client ID	Sample Date
SB-3-SW10-D0.5	06/12/2023 11:36

Lab ID	Matrix	Quantity of Containers
BEF0098-42	Soil	1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

Client ID	Sample Date
SB-3-SW10-D2.0	06/12/2023 11:38

Lab ID	Matrix	Quantity of Containers
BEF0098-43	Soil	1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

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Samples Received
(Continued)

AETL received the following samples on 06/12/2023 with the following specifications

Client ID: SB-3-SW10-D3.0 — **Sample Date:** 06/12/2023 11:40
Lab ID: BEF0098-44 — **Matrix:** Soil — **Quantity of Containers:** 1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

Client ID: SB-3-SE5-D0.5 — **Sample Date:** 06/12/2023 11:46
Lab ID: BEF0098-45 — **Matrix:** Soil — **Quantity of Containers:** 1

Method	Analyte	Units	TAT
EPA 6010B	Lead, total by ICP	mg/kg	5

Client ID: SB-3-SE5-D0.5-DUP — **Sample Date:** 06/12/2023 11:47
Lab ID: BEF0098-46 — **Matrix:** Soil — **Quantity of Containers:** 1

Method	Analyte	Units	TAT
EPA 6010B	Lead, total by ICP	mg/kg	5

Client ID: SB-3-SE5-D2.0 — **Sample Date:** 06/12/2023 11:48
Lab ID: BEF0098-47 — **Matrix:** Soil — **Quantity of Containers:** 1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEF0098 [none] Justin King Canoga Park High School	Site: Reported:	LAUSD Canoga 6850 CA-27 Canoga Park, CA 91303 06/20/2023 16:17

Samples Received
(Continued)

AETL received the following samples on 06/12/2023 with the following specifications

Client ID: SB-3-SE5-D3.0 — **Sample Date:** 06/12/2023 11:50
Lab ID: BEF0098-48 — **Matrix:** Soil — **Quantity of Containers:** 1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

Client ID: SB-3-SE10-D0.5 — **Sample Date:** 06/12/2023 12:00
Lab ID: BEF0098-49 — **Matrix:** Soil — **Quantity of Containers:** 1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

Client ID: SB-3-SE10-D2.0 — **Sample Date:** 06/12/2023 12:02
Lab ID: BEF0098-50 — **Matrix:** Soil — **Quantity of Containers:** 1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

Client ID: SB-3-SE10-D3.0 — **Sample Date:** 06/12/2023 12:04
Lab ID: BEF0098-51 — **Matrix:** Soil — **Quantity of Containers:** 1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

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Parsons	AETL Job Number:	BEF0098	Site:	LAUSD Canoga	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	Canoga Park High School	Reported:	06/20/2023 16:17	

Samples Received

(Continued)

AETL received the following samples on 06/12/2023 with the following specifications

Client ID	Sample Date
SB-44-W5-D0.5	06/12/2023 12:53

Lab ID	Matrix	Quantity of Containers
BEF0098-52	Soil	2

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Client ID	Sample Date
SB-44-W5-D2.0	06/12/2023 12:55

Lab ID	Matrix	Quantity of Containers
BEF0098-53	Soil	1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

Client ID	Sample Date
SB-44-W5-D3.0	06/12/2023 12:57

Lab ID	Matrix	Quantity of Containers
BEF0098-54	Soil	1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

Client ID	Sample Date
SB-44-N5-D0.5	06/12/2023 13:05

Lab ID	Matrix	Quantity of Containers
BEF0098-55	Soil	2

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEF0098 [none] Justin King Canoga Park High School	Site: Reported:	LAUSD Canoga 6850 CA-27 Canoga Park, CA 91303 06/20/2023 16:17

Samples Received
(Continued)

AETL received the following samples on 06/12/2023 with the following specifications

Client ID SB-44-N5-D2.0 — **Sample Date** 06/12/2023 13:08

Lab ID	Matrix	Quantity of Containers
BEF0098-56	Soil	1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

Client ID SB-44-N5-D3.0 — **Sample Date** 06/12/2023 13:10

Lab ID	Matrix	Quantity of Containers
BEF0098-57	Soil	1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

Client ID SB-44-N10-D0.5 — **Sample Date** 06/12/2023 13:17

Lab ID	Matrix	Quantity of Containers
BEF0098-58	Soil	1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

Client ID SB-44-N10-D2.0 — **Sample Date** 06/12/2023 13:19

Lab ID	Matrix	Quantity of Containers
BEF0098-59	Soil	1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

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Parsons	AETL Job Number:	BEF0098	Site:	LAUSD Canoga	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	Canoga Park High School	Reported:	06/20/2023 16:17	

Samples Received

(Continued)

AETL received the following samples on 06/12/2023 with the following specifications

Client ID	Sample Date
SB-44-N10-D3.0	06/12/2023 13:21

Lab ID	Matrix	Quantity of Containers
BEF0098-60	Soil	1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

Client ID	Sample Date
SB-44-S10-D0.5	06/12/2023 13:29

Lab ID	Matrix	Quantity of Containers
BEF0098-61	Soil	2

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Client ID	Sample Date
SB-44-S10-D2.0	06/12/2023 13:31

Lab ID	Matrix	Quantity of Containers
BEF0098-62	Soil	1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

Client ID	Sample Date
SB-44-S10-D3.0	06/12/2023 13:34

Lab ID	Matrix	Quantity of Containers
BEF0098-63	Soil	1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

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Samples Received
(Continued)

AETL received the following samples on 06/12/2023 with the following specifications

Client ID	Sample Date
SB-5-E5-D0.5	06/12/2023 13:52

Lab ID	Matrix	Quantity of Containers
BEF0098-64	Soil	2

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Client ID	Sample Date
SB-5-E5-D2.0	06/12/2023 13:54

Lab ID	Matrix	Quantity of Containers
BEF0098-65	Soil	1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

Client ID	Sample Date
SB-5-E5-D3.0	06/12/2023 13:57

Lab ID	Matrix	Quantity of Containers
BEF0098-66	Soil	1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

Client ID	Sample Date
SB-5-NE5-D0.5	06/12/2023 14:03

Lab ID	Matrix	Quantity of Containers
BEF0098-67	Soil	2

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEF0098 [none] Justin King Canoga Park High School	Site: Reported:	LAUSD Canoga 6850 CA-27 Canoga Park, CA 91303 06/20/2023 16:17

Samples Received
(Continued)

AETL received the following samples on 06/12/2023 with the following specifications

Client ID SB-5-NE5-D0.5-DUP — **Sample Date** 06/12/2023 14:05

Lab ID	Matrix	Quantity of Containers
BEF0098-68	Soil	2

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Client ID SB-5-NE5-D2.0 — **Sample Date** 06/12/2023 14:07

Lab ID	Matrix	Quantity of Containers
BEF0098-69	Soil	1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

Client ID SB-5-NE5-D3.0 — **Sample Date** 06/12/2023 14:10

Lab ID	Matrix	Quantity of Containers
BEF0098-70	Soil	1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

Client ID SB-5-NE10-D0.5 — **Sample Date** 06/12/2023 14:14

Lab ID	Matrix	Quantity of Containers
BEF0098-71	Soil	1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEF0098 [none] Justin King Canoga Park High School	Site: Reported:	LAUSD Canoga 6850 CA-27 Canoga Park, CA 91303 06/20/2023 16:17

Samples Received
(Continued)

AETL received the following samples on 06/12/2023 with the following specifications

Client ID SB-5-NE10-D2.0 — **Sample Date** 06/12/2023 14:16

Lab ID	Matrix	Quantity of Containers
BEF0098-72	Soil	1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

Client ID SB-5-NE10-D3.0 — **Sample Date** 06/12/2023 14:18

Lab ID	Matrix	Quantity of Containers
BEF0098-73	Soil	1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

Client ID SB-5-NW5-D0.5 — **Sample Date** 06/12/2023 14:34

Lab ID	Matrix	Quantity of Containers
BEF0098-74	Soil	2

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Client ID SB-5-NW5-D2.0 — **Sample Date** 06/12/2023 14:37

Lab ID	Matrix	Quantity of Containers
BEF0098-75	Soil	1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEF0098 [none] Justin King Canoga Park High School	Site: Reported:	LAUSD Canoga 6850 CA-27 Canoga Park, CA 91303 06/20/2023 16:17

Samples Received
(Continued)

AETL received the following samples on 06/12/2023 with the following specifications

Client ID: SB-5-NW5-D3.0 — **Sample Date:** 06/12/2023 14:39
Lab ID: BEF0098-76 — **Matrix:** Soil — **Quantity of Containers:** 1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

Client ID: SB-5-W5-D0.5 — **Sample Date:** 06/12/2023 14:24
Lab ID: BEF0098-77 — **Matrix:** Soil — **Quantity of Containers:** 2

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Client ID: SB-5-W5-D2.0 — **Sample Date:** 06/12/2023 14:26
Lab ID: BEF0098-78 — **Matrix:** Soil — **Quantity of Containers:** 1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

Client ID: SB-5-W5-D3.0 — **Sample Date:** 06/12/2023 14:28
Lab ID: BEF0098-79 — **Matrix:** Soil — **Quantity of Containers:** 1

Method	Analyte	Units	TAT
Archive	Sample On Hold	N/A	0

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A KYZER LABS COMPANY

Parsons	AETL Job Number:	BEF0098	Site:	LAUSD Canoga	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	Canoga Park High School	Reported:	06/20/2023 16:17	

Total Number of Samples received: **79**

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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEF0098 [none] Justin King Canoga Park High School	Site: Reported:	LAUSD Canoga 6850 CA-27 Canoga Park, CA 91303 06/20/2023 16:17

Positive Hits Summary

Lab ID	Client ID				Sampled
BEF0098-23	SB-1-NE5-D0.5				06/12/2023 10:05
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	16.5		mg/kg	06/14/2023 15:36

Lab ID	Client ID				Sampled
BEF0098-26	SB-1-NW5-D0.5				06/12/2023 10:16
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	15.2		mg/kg	06/14/2023 15:39

Lab ID	Client ID				Sampled
BEF0098-32	SB-1-SW5-D0.5				06/12/2023 10:39
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	155		mg/kg	06/14/2023 15:41

Lab ID	Client ID				Sampled
BEF0098-33	SB-1-SW5-D0.5-DUP				06/12/2023 10:41
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	129		mg/kg	06/14/2023 15:50

Lab ID	Client ID				Sampled
BEF0098-39	SB-3-SW5-D0.5				06/12/2023 11:24
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	158		mg/kg	06/14/2023 15:53

Lab ID	Client ID				Sampled
BEF0098-45	SB-3-SE5-D0.5				06/12/2023 11:46
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	252		mg/kg	06/14/2023 15:56

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A KYZER LABS COMPANY

Parsons	AETL Job Number:	BEF0098	Site:	LAUSD Canoga	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	Canoga Park High School	Reported:	06/20/2023 16:17	

Positive Hits Summary
(Continued)

Lab ID	Client ID				Sampled
BEF0098-46	SB-3-SE5-D0.5-DUP				06/12/2023 11:47
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	**Lead**	**209**		**mg/kg**	**06/14/2023 15:59**

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Parsons	AETL Job Number:	BEF0098	Site:	LAUSD Canoga	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	Canoga Park High School	Reported:	06/20/2023 16:17	

Analytical Results

Client ID: SB-1-NE5-D0.5
Lab ID: BEF0098-23 (Soil) **Sampled:** 06/12/23 10:05

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Lead	**16.5**		1	0.550	5.00	mg/kg	06/13/23 13:01	06/14/23 15:36	B3F0164	LC	3050B

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Parsons	AETL Job Number:	BEF0098	Site:	LAUSD Canoga	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	Canoga Park High School	Reported:	06/20/2023 16:17	

Analytical Results

Client ID: SB-1-NW5-D0.5
Lab ID: BEF0098-26 (Soil) **Sampled:** 06/12/23 10:16

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Lead	**15.2**		1	0.550	5.00	mg/kg	06/13/23 13:01	06/14/23 15:39	B3F0164	LC	3050B

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Parsons	AETL Job Number:	BEF0098	Site:	LAUSD Canoga	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	Canoga Park High School	Reported:	06/20/2023 16:17	

Analytical Results

Client ID: SB-1-SW5-D0.5
Lab ID: BEF0098-32 (Soil) **Sampled:** 06/12/23 10:39

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Lead	**155**		1	0.550	5.00	mg/kg	06/13/23 13:01	06/14/23 15:41	B3F0164	LC	3050B

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Parsons	AETL Job Number:	BEF0098	Site:	LAUSD Canoga	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	Canoga Park High School	Reported:	06/20/2023 16:17	

Analytical Results

Client ID: SB-1-SW5-D0.5-DUP
Lab ID: BEF0098-33 (Soil) **Sampled:** 06/12/23 10:41

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Lead	**129**		1	0.550	5.00	mg/kg	06/13/23 13:01	06/14/23 15:50	B3F0164	LC	3050B

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Parsons	AETL Job Number:	BEF0098	Site:	LAUSD Canoga	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	Canoga Park High School	Reported:	06/20/2023 16:17	

Analytical Results

Client ID: SB-3-SW5-D0.5
Lab ID: BEF0098-39 (Soil) **Sampled:** 06/12/23 11:24

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Lead	**158**		1	0.550	5.00	mg/kg	06/13/23 13:01	06/14/23 15:53	B3F0164	LC	3050B

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Parsons	AETL Job Number:	BEF0098	Site:	LAUSD Canoga	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	Canoga Park High School	Reported:	06/20/2023 16:17	

Analytical Results

Client ID: SB-3-SE5-D0.5
Lab ID: BEF0098-45 (Soil) **Sampled:** 06/12/23 11:46

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Lead	**252**		1	0.550	5.00	mg/kg	06/13/23 13:01	06/14/23 15:56	B3F0164	LC	3050B

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Parsons	AETL Job Number:	BEF0098	Site:	LAUSD Canoga	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	Canoga Park High School	Reported:	06/20/2023 16:17	

Analytical Results

Client ID: SB-3-SE5-D0.5-DUP
Lab ID: BEF0098-46 (Soil) **Sampled:** 06/12/23 11:47

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Lead	**209**		1	0.550	5.00	mg/kg	06/13/23 13:01	06/14/23 15:59	B3F0164	LC	3050B

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Parsons	AETL Job Number:	BEF0098	Site:	LAUSD Canoga	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	Canoga Park High School	Reported:	06/20/2023 16:17	

Quality Control Results

Metals Total (EPA 6010B)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3F0164 - 3050B					**Prepared: 06/13/2023 13:01**						
Method Blank (B3F0164-BLK1)					**Analyzed: 06/14/2023 15:16**						
Lead	ND	0.550	5.00	mg/kg							

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Parsons	AETL Job Number:	BEF0098	Site:	LAUSD Canoga	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	Canoga Park High School	Reported:	06/20/2023 16:17	

Quality Control Results

Metals Total (EPA 6010B)

Analyte	Result		RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3F0164 - 3050B (Continued)					**Prepared: 06/13/2023 13:01**						
LCS (B3F0164-BS1)					**Analyzed: 06/14/2023 15:18**						
Lead	99.0		5.00	mg/kg	98.0		101	75-125			
LCSD (B3F0164-BSD1)					**Analyzed: 06/14/2023 15:21**						
Lead	98.9		5.00	mg/kg	99.0		99.9	75-125	0.131	15	
Duplicate (B3F0164-DUP1)		**Source: BEF0112-01**			**Analyzed: 06/14/2023 15:27**						
Lead	2.91	0.550	5.00	mg/kg		2.79			4.46	20	J
Matrix Spike (B3F0164-MS1)		**Source: BEF0112-01**			**Analyzed: 06/14/2023 15:30**						
Lead	87.4	0.550	5.00	mg/kg	99.0	2.79	85.4	75-125			
Matrix Spike Dup (B3F0164-MSD1)		**Source: BEF0112-01**			**Analyzed: 06/14/2023 15:33**						
Lead	87.3	0.550	5.00	mg/kg	100	2.79	84.5	75-125	0.116	15	

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100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	Canoga Park High School	Reported:	06/20/2023 16:17	

Qualifiers and Definitions

Item	Qualifiers
J	Analyte was detected. However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Reporting Limit (RL).

Item	Definitions
% wt	Percent Weight
%REC	Percent Recovery
°F	Degrees Fahrenheit
AETL	American Environmental Testing Laboratory, LLC
C	Carbon
CARB	California Air Resources Board
COC	Chain of Custody
Cresols	3-methylphenol/4-methylphenol coelute and cannot be chromatographically separated. Due to this coeluting isomer pair phenomenon, the laboratory uses a single cresol (4-methylphenol) as calibration standard for 3-methylphenol/4-methylphenol.
CRM	Certified Reference Material
DI	Deionized Water
DPD	Department of Planning and Development
DRO	Diesel Range Organics
Dup	Duplicate
ELAP	Environmental Laboratory Accreditation Program
EPA	Environmental Protection Agency
GC/FID	Gas Chromatography Flame Ionization Detection
GRO	Gasoline Range Organics
HC	Hydrocarbon
HEM	Hexane Extractable Material
HMU	Hazardous Material Unit
ICP/MS	Inductively Coupled Plasma Mass Spectrometry
LACSD	Los Angeles County Sanitation Districts
LCS	Laboratory Control Sample - A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes.
LCSD	Laboratory Control Sample Duplicate - A replicate of Laboratory Control Sample.
LOQ	Limit of Quantitation
MDL	Method Detection Limit - The minimum measured concentration of a substance that can be reported with 99% confidence. MDL is statistically derived number which is specific for each instrument, each method and each compound.
mg/kg	Miligrams per Kilogram
mg/L	Miligrams per Liter
ml/L/hr	Milliliter per Liter per Hour
MRO	Motor oil Range Organics

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100 West Walnut Street	Project Number:	[none]		6850 CA-27
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303
	Project Name:	Canoga Park High School	Reported:	06/20/2023 16:17

MS	Matrix Spike - A sample prepared, taken through all sample preparation and analytical steps of the procedure and analyzed as an independent test results.
MSD	Matrix Spike Duplicate - A replicate of Matrix Spike Sample.
N	No
ND	Analyte is not detected below Method Detection Limit.
ng/m3	Nanograms per cubic meter
NIOSH	National Institute for Occupational Safety and Health
nL/L	Nanoliters per Liter
NTU	Nephelometric Turbidity Units
Ohm-cm	Ohms per centimeter
ORO	Oil Range Organics
OSHA	Occupational Safety and Health Administration
PCB	Polychlorinated Biphenyl
ppb v	Parts per billion by volume
ppmC	Parts per million Carbon
PSU	Practical Salinity Unit
RL	Reporting Limit - The lowest concentration at which an analyte can be detected in a sample and its concentration can be reported with a specified degree of confidence, accuracy and precision. For usage at AETL, RL is equivalant to LOQ.
RPD	Relative Percent Difference
SIM	Selective Ion Monitoring
SM	Standard Method
SPLP	Synthetic Precipitation Leaching Procedure
STLC	Soluble Threshold Limit Concentration
TCLP	Toxicity Characteristic Leaching Procedure
TPH	Total Petroleum Hydrocarbons
TTLC	Total Threshold Limit Concentrations
ug/kg	Micrograms per Kilogram
ug/L	Micrograms per Liter
ug/m3	Micrograms per cubic meter
WET	Waste Extraction Test
Y	Yes
ZHE	Zero Headspace Extraction

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June 20, 2023

Hailley Coleman
American Environmental Testing Laboratory, Inc.
2834 N. Naomi Street
Burbank, CA 91504

TEL: (818) 845-8200
FAX:

Workorder No.: N057164

RE: BEF0098

Attention: Hailley Coleman

Enclosed are the results for sample(s) received on June 14, 2023 by ASSET Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (702) 307-2659 if I can be of further assistance to your company.

Sincerely,



Ferdinand Paul Lugtu
Laboratory Director

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CLIENT: American Environmental Testing Laborator
Project: BEF0098
Lab Order: N057164

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

All sample containers were received intact with proper chain of custody documentation.

Information on sample receipt conditions including discrepancies can be found in attached Sample Receipt Checklist Form.

Cooler temperature and sample preservation were verified upon receipt of samples if applicable.

Samples were analyzed within method holding time.

Analytical Comments for EPA 6020:

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside criteria since the analyte concentration in the sample is disproportionate to the spike level. The associated Laboratory Control Sample (LCS) recovery was acceptable.

CLIENT: American Environmental Testing Laborator
Project: BEF0098
Lab Order: N057164
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N057164-001A	BEF0098-01	Soil	6/12/2023 8:15:00 AM	6/14/2023	6/20/2023
N057164-002A	BEF0098-07	Soil	6/12/2023 8:37:00 AM	6/14/2023	6/20/2023
N057164-003A	BEF0098-08	Soil	6/12/2023 8:39:00 AM	6/14/2023	6/20/2023
N057164-004A	BEF0098-14	Soil	6/12/2023 9:01:00 AM	6/14/2023	6/20/2023
N057164-005A	BEF0098-20	Soil	6/12/2023 8:06:00 AM	6/14/2023	6/20/2023
N057164-006A	BEF0098-23	Soil	6/12/2023 10:05:00 AM	6/14/2023	6/20/2023
N057164-007A	BEF0098-26	Soil	6/12/2023 10:16:00 AM	6/14/2023	6/20/2023
N057164-008A	BEF0098-32	Soil	6/12/2023 10:39:00 AM	6/14/2023	6/20/2023
N057164-009A	BEF0098-33	Soil	6/12/2023 10:41:00 AM	6/14/2023	6/20/2023
N057164-010A	BEF0098-52	Soil	6/12/2023 12:53:00 PM	6/14/2023	6/20/2023
N057164-011A	BEF0098-55	Soil	6/12/2023 1:05:00 PM	6/14/2023	6/20/2023
N057164-012A	BEF0098-61	Soil	6/12/2023 1:29:00 PM	6/14/2023	6/20/2023
N057164-013A	BEF0098-64	Soil	6/12/2023 1:52:00 PM	6/14/2023	6/20/2023
N057164-014A	BEF0098-67	Soil	6/12/2023 2:03:00 PM	6/14/2023	6/20/2023
N057164-015A	BEF0098-68	Soil	6/12/2023 2:05:00 PM	6/14/2023	6/20/2023
N057164-016A	BEF0098-74	Soil	6/12/2023 2:34:00 PM	6/14/2023	6/20/2023
N057164-017A	BEF0098-77	Soil	6/12/2023 2:24:00 PM	6/14/2023	6/20/2023

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0098-01
Lab Order:	N057164		
Project:	BEF0098	**Collection Date:**	6/12/2023 8:15:00 AM
Lab ID:	N057164-001	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230615B	QC Batch: 100302			PrepDate:	6/15/2023	Analyst: **DJ**
Arsenic	48	0.50		mg/Kg	1	6/15/2023 08:16 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0098-07
Lab Order:	N057164		
Project:	BEF0098	**Collection Date:**	6/12/2023 8:37:00 AM
Lab ID:	N057164-002	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230615B	QC Batch: 100302			PrepDate:	6/15/2023	Analyst: **DJ**
Arsenic	35	0.50		mg/Kg	1	6/15/2023 08:39 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0098-08
Lab Order:	N057164		
Project:	BEF0098	**Collection Date:**	6/12/2023 8:39:00 AM
Lab ID:	N057164-003	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230615B	QC Batch: 100302			PrepDate:	6/15/2023	Analyst: **DJ**
Arsenic	37	0.50		mg/Kg	1	6/15/2023 08:44 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0098-14
Lab Order:	N057164		
Project:	BEF0098	**Collection Date:**	6/12/2023 9:01:00 AM
Lab ID:	N057164-004	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230616B	QC Batch: 100302			PrepDate:	6/15/2023	Analyst: **DJ**
Arsenic	95	2.5		mg/Kg	5	6/16/2023 06:31 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0098-20
Lab Order:	N057164		
Project:	BEF0098	**Collection Date:**	6/12/2023 8:06:00 AM
Lab ID:	N057164-005	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230615B	QC Batch: 100302			PrepDate:	6/15/2023	Analyst: **DJ**
Arsenic	14	0.50		mg/Kg	1	6/15/2023 09:07 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0098-23
Lab Order:	N057164		
Project:	BEF0098	**Collection Date:**	6/12/2023 10:05:00 AM
Lab ID:	N057164-006	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230615B	QC Batch: 100302			PrepDate:	6/15/2023	Analyst: **DJ**
Arsenic	20	0.50		mg/Kg	1	6/15/2023 09:12 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0098-26
Lab Order:	N057164		
Project:	BEF0098	**Collection Date:**	6/12/2023 10:16:00 AM
Lab ID:	N057164-007	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230615B	QC Batch: 100302			PrepDate:	6/15/2023	Analyst: **DJ**
Arsenic	18	0.50		mg/Kg	1	6/15/2023 09:17 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0098-32
Lab Order:	N057164		
Project:	BEF0098	**Collection Date:**	6/12/2023 10:39:00 AM
Lab ID:	N057164-008	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230615B	QC Batch: 100302			PrepDate:	6/15/2023	Analyst: **DJ**
Arsenic	17	0.50		mg/Kg	1	6/15/2023 09:21 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0098-33
Lab Order:	N057164		
Project:	BEF0098	**Collection Date:**	6/12/2023 10:41:00 AM
Lab ID:	N057164-009	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230615B	QC Batch: 100302			PrepDate:	6/15/2023	Analyst: **DJ**
Arsenic	14	0.50		mg/Kg	1	6/15/2023 09:26 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0098-52
Lab Order:	N057164		
Project:	BEF0098	**Collection Date:**	6/12/2023 12:53:00 PM
Lab ID:	N057164-010	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230615B	QC Batch: 100302			PrepDate:	6/15/2023	Analyst: **DJ**
Arsenic	7.8	0.50		mg/Kg	1	6/15/2023 09:31 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0098-55
Lab Order:	N057164		
Project:	BEF0098	**Collection Date:**	6/12/2023 1:05:00 PM
Lab ID:	N057164-011	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230615B	QC Batch: 100302			PrepDate:	6/15/2023	Analyst: **DJ**
Arsenic	36	0.50		mg/Kg	1	6/15/2023 09:35 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0098-61
Lab Order:	N057164		
Project:	BEF0098	**Collection Date:**	6/12/2023 1:29:00 PM
Lab ID:	N057164-012	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230615B	QC Batch: 100302			PrepDate:	6/15/2023	Analyst: **DJ**
Arsenic	32	0.50		mg/Kg	1	6/15/2023 09:40 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0098-64
Lab Order:	N057164		
Project:	BEF0098	**Collection Date:**	6/12/2023 1:52:00 PM
Lab ID:	N057164-013	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230615B	QC Batch: 100302			PrepDate:	6/15/2023	Analyst: **DJ**
Arsenic	36	0.50		mg/Kg	1	6/15/2023 09:58 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0098-67
Lab Order:	N057164		
Project:	BEF0098	**Collection Date:**	6/12/2023 2:03:00 PM
Lab ID:	N057164-014	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230615B	QC Batch: 100302			PrepDate:	6/15/2023	Analyst: **DJ**
Arsenic	9.0	0.50		mg/Kg	1	6/15/2023 10:03 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0098-68
Lab Order:	N057164		
Project:	BEF0098	**Collection Date:**	6/12/2023 2:05:00 PM
Lab ID:	N057164-015	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230615B	QC Batch: 100302			PrepDate:	6/15/2023	Analyst: **DJ**
Arsenic	11	0.50		mg/Kg	1	6/15/2023 10:08 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0098-74
Lab Order:	N057164		
Project:	BEF0098	**Collection Date:**	6/12/2023 2:34:00 PM
Lab ID:	N057164-016	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230615B	QC Batch: 100302			PrepDate:	6/15/2023	Analyst: **DJ**
Arsenic	40	0.50		mg/Kg	1	6/15/2023 10:12 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0098-77
Lab Order:	N057164		
Project:	BEF0098	**Collection Date:**	6/12/2023 2:24:00 PM
Lab ID:	N057164-017	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230615B	QC Batch: 100302			PrepDate:	6/15/2023	Analyst: **DJ**
Arsenic	5.7	0.50		mg/Kg	1	6/15/2023 10:17 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: American Environmental Testing Laboratory, Inc.
Work Order: N057164
Project: BEF0098

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_S_PPM

Sample ID: **MB-100302**	SampType: **MBLK**	TestCode: **6020_S_PPM**	Units: **mg/Kg**	Prep Date: **6/15/2023**	RunNo: **173249**
Client ID: **PBS**	Batch ID: **100302**	TestNo: **EPA 6020**	**EPA 3050B**	Analysis Date: **6/15/2023**	SeqNo: **5250467**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.50									

Sample ID: **LCS-100302**	SampType: **LCS**	TestCode: **6020_S_PPM**	Units: **mg/Kg**	Prep Date: **6/15/2023**	RunNo: **173249**
Client ID: **LCSS**	Batch ID: **100302**	TestNo: **EPA 6020**	**EPA 3050B**	Analysis Date: **6/15/2023**	SeqNo: **5250468**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	5.009	0.50	5.000	0	100	85	115				

Sample ID: **N057164-001A-MS**	SampType: **MS**	TestCode: **6020_S_PPM**	Units: **mg/Kg**	Prep Date: **6/15/2023**	RunNo: **173249**
Client ID: **ZZZZZZ**	Batch ID: **100302**	TestNo: **EPA 6020**	**EPA 3050B**	Analysis Date: **6/15/2023**	SeqNo: **5250472**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	58.977	0.50	4.998	48.20	216	75	125				S

Sample ID: **N057164-001A-MSD**	SampType: **MSD**	TestCode: **6020_S_PPM**	Units: **mg/Kg**	Prep Date: **6/15/2023**	RunNo: **173249**
Client ID: **ZZZZZZ**	Batch ID: **100302**	TestNo: **EPA 6020**	**EPA 3050B**	Analysis Date: **6/15/2023**	SeqNo: **5250473**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	50.478	0.50	4.993	48.20	45.7	75	125	58.98	15.5	20	S

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

57164

AMERICAN ENVIRONMENTAL TESTING LABORATORY, LLC
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Telephone (888) 288-AETL • (818) 845-8200 • www.aetlab.com

SUBCONTRACT CHAIN of CUSTODY

IR# 1 5.8°C

Sending Laboratory:

AETL
AETL, LLC. 2840 N. Naomi Street
Burbank, CA 91504
Phone: 818-845-8200
Project Manager: Hailley Coleman
Email: hcoleman@aetlab.com

Subcontracted Laboratory:

ASSET Laboratories
11110 Artesia Blvd.
Cerritos, CA 90703
Phone: (702)307-2659
Fax: (562)219-7435

Work Order: BEF0098 PO #SUB-35492

Analysis	Due	Expires	Comments
Sample ID: BEF0098-01 ***Soil*** ***Sampled: 06/12/2023 08:15***			4-DAY TAT
6020-As (Arsenic, total by ICP/MS)	06/19/2023	12/09/2023 08:15	
Containers Supplied:			N057164-001
Sample ID: BEF0098-07 ***Soil*** ***Sampled: 06/12/2023 08:37***			
6020-As (Arsenic, total by ICP/MS)	06/19/2023	12/09/2023 08:37	
Containers Supplied:			-002
Sample ID: BEF0098-08 ***Soil*** ***Sampled: 06/12/2023 08:39***			
6020-As (Arsenic, total by ICP/MS)	06/19/2023	12/09/2023 08:39	
Containers Supplied:			-003
Sample ID: BEF0098-14 ***Soil*** ***Sampled: 06/12/2023 09:01***			
6020-As (Arsenic, total by ICP/MS)	06/19/2023	12/09/2023 09:01	
Containers Supplied:			-004
Sample ID: BEF0098-20 ***Soil*** ***Sampled: 06/12/2023 08:06***			
6020-As (Arsenic, total by ICP/MS)	06/19/2023	12/09/2023 08:06	-005

Approved by: HAILLEY COLEMAN — AETL Project Manager — Date: 6/14/23

Hrag B. — Released By AETL Sample Control — Date: 6/14/23 1503

KIM (SAN ANTONIO) — Received By Courier — Date: 6/14/23 1503

Released By Courier — Date

Marc de la Cruz — Received By Subcontract Laboratory — Date: 6/15/23 8:42 am

LV 2.3°C IR#5 GLS 2048

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SUBCONTRACT CHAIN of CUSTODY
(Continued)

Work Order: BEF0098 (Continued)

Analysis	Due	Expires	Comments
Containers Supplied:			
Sample ID: BEF0098-23 ***Soil Sampled: 06/12/2023 10:05***			
6020-As (Arsenic, total by ICP/MS)	06/19/2023	12/09/2023 10:05	
Containers Supplied:			N057164-006
Sample ID: BEF0098-26 ***Soil Sampled: 06/12/2023 10:16***			
6020-As (Arsenic, total by ICP/MS)	06/19/2023	12/09/2023 10:16	-007
Containers Supplied:			
Sample ID: BEF0098-32 ***Soil Sampled: 06/12/2023 10:39***			
6020-As (Arsenic, total by ICP/MS)	06/19/2023	12/09/2023 10:39	-008
Containers Supplied:			
Sample ID: BEF0098-33 ***Soil Sampled: 06/12/2023 10:41***			
6020-As (Arsenic, total by ICP/MS)	06/19/2023	12/09/2023 10:41	-009
Containers Supplied:			
Sample ID: BEF0098-52 ***Soil Sampled: 06/12/2023 12:53***			
6020-As (Arsenic, total by ICP/MS)	06/19/2023	12/09/2023 12:53	-010
Containers Supplied:			
Sample ID: BEF0098-55 ***Soil Sampled: 06/12/2023 13:05***			
6020-As (Arsenic, total by ICP/MS)	06/19/2023	12/09/2023 13:05	-011

Approved by:

AETL Project Manager — Date

Hrag B. [signature] — 6/14/23 1503 — KIM LANANTONIO — 6/14/23 1503

Released By AETL Sample Control — Date — Received By Courier — Date

Released By Courier — Date — Marc DeL Campo — 6/15/23 8:42 am

Received By Subcontract Laboratory — Date

LV 2.3 °C 1 R#3 · GLS 2045

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SUBCONTRACT CHAIN of CUSTODY
(Continued)

Work Order: BEF0098 (Continued)

Analysis	Due	Expires	Comments
Containers Supplied:			
Sample ID: BEF0098-61 ***Soil*** ***Sampled: 06/12/2023 13:29***			
6020-As (Arsenic, total by ICP/MS)	06/19/2023	12/09/2023 13:29	N057164-012
Containers Supplied:			
Sample ID: BEF0098-64 ***Soil*** ***Sampled: 06/12/2023 13:52***			
6020-As (Arsenic, total by ICP/MS)	06/19/2023	12/09/2023 13:52	-013
Containers Supplied:			
Sample ID: BEF0098-67 ***Soil*** ***Sampled: 06/12/2023 14:03***			
6020-As (Arsenic, total by ICP/MS)	06/19/2023	12/09/2023 14:03	-014
Containers Supplied:			
Sample ID: BEF0098-68 ***Soil*** ***Sampled: 06/12/2023 14:05***			
6020-As (Arsenic, total by ICP/MS)	06/19/2023	12/09/2023 14:05	-015
Containers Supplied:			
Sample ID: BEF0098-74 ***Soil*** ***Sampled: 06/12/2023 14:34***			
6020-As (Arsenic, total by ICP/MS)	06/19/2023	12/09/2023 14:34	-016
Containers Supplied:			
Sample ID: BEF0098-77 ***Soil*** ***Sampled: 06/12/2023 14:24***			
6020-As (Arsenic, total by ICP/MS)	06/19/2023	12/09/2023 14:24	-017

Approved by:

AETL Project Manager — Date

Hrag B. — Released By AETL Sample Control — 6/14/23 1503 Date

KIM VAN ANTONIO — Received By Courier — 6/14/23 1503 Date

Released By Courier — Date

Marie de la Cruz — Received By Subcontract Laboratory — 6/15/23 8:42 Date

LV 2.3°C / AR#3 625045

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SUBCONTRACT CHAIN of CUSTODY
(Continued)

Work Order: BEF0098 (Continued)

Analysis	Due	Expires	Comments

Containers Supplied:

Approved by:

AETL Project Manager — Date

Hrag B. [signature] — 6/14/23 1503 — KIM VAN ANTONIO — 6/14/23 1503

Released By AETL Sample Control — Date — Received By Courier — Date

Maria de la Cruz — 6/15/23 8:42 am

Released By Courier — Date — Received By Subcontract Laboratory — Date

 LV 2.3°C IR#3 625 2045

ASSET Laboratories

Please review the checklist below. Any NO signifies non-compliance. Any non-compliance will be noted and must be understood as having an impact on the quality of the data. All tests will be performed as requested regardless of any compliance issues.

If you have any questions or further instruction, please contact our Project Coordinator at (702) 307-2659.

Cooler Received/Opened On:	6/14/2023	Workorder:	N057164
Rep sample Temp (Deg C):	5.8	IR Gun ID:	1
Temp Blank:	☐ Yes ☑ No		
Carrier name:	Walk-In		
Last 4 digits of Tracking No.:	NA	Packing Material Used:	None
Cooling process:	☑ Ice ☐ Ice Pack ☐ Dry Ice ☐ Other ☐ None		

Sample Receipt Checklist

1. Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
2. Custody seals intact, signed, dated on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
3. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
4. Chain of custody present?	Yes ☑	No ☐	
5. Sampler's name present in COC?	Yes ☐	No ☑	
6. Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
7. Chain of custody agrees with sample labels?	Yes ☑	No ☐	
8. Samples in proper container/bottle?	Yes ☑	No ☐	
9. Sample containers intact?	Yes ☑	No ☐	
10. Sufficient sample volume for indicated test?	Yes ☑	No ☐	
11. All samples received within holding time?	Yes ☑	No ☐	
12. Temperature of rep sample or Temp Blank within acceptable limit?	Yes ☑	No ☐	NA ☐
13. Water - VOA vials have zero headspace?	Yes ☐	No ☐	NA ☑
14. Water - pH acceptable upon receipt? Example: pH > 12 for (CN,S); pH<2 for Metals	Yes ☐	No ☐	NA ☑
15. Did the bottle labels indicate correct preservatives used?	Yes ☐	No ☐	NA ☑
16. Were there Non-Conformance issues at login?	Yes ☑	No ☐	NA ☐
Was Client notified?	Yes ☐	No ☐	NA ☑

Comments: Received at Las Vegas Lab on 6/15/2023 at 2.3°C, IR#3, via GLS#2045

Checklist Completed By: FOR MR 6/15/2023

Reviewed By:

ASSET Laboratories

WORK ORDER Summary

17-Jun-23

WorkOrder: N057164

Client ID: AETL01

Project: BEF0098 **QC Level:** RTNE **Date Received:** 6/14/2023 3:03 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N057164-001A	BEF0098-01	6/12/2023 8:15:00 AM	6/20/2023	Soil	EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			6/20/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057164-002A	BEF0098-07	6/12/2023 8:37:00 AM	6/20/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			6/20/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057164-003A	BEF0098-08	6/12/2023 8:39:00 AM	6/20/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			6/20/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057164-004A	BEF0098-14	6/12/2023 9:01:00 AM	6/20/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			6/20/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057164-005A	BEF0098-20	6/12/2023 8:06:00 AM	6/20/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			6/20/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057164-006A	BEF0098-23	6/12/2023 10:05:00 AM	6/20/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			6/20/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057164-007A	BEF0098-26	6/12/2023 10:16:00 AM	6/20/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			6/20/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057164-008A	BEF0098-32	6/12/2023 10:39:00 AM	6/20/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			6/20/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057164-009A	BEF0098-33	6/12/2023 10:41:00 AM	6/20/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			6/20/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057164-010A	BEF0098-52	6/12/2023 12:53:00 PM	6/20/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			6/20/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057164-011A	BEF0098-55	6/12/2023 1:05:00 PM	6/20/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			6/20/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS

ASSET Laboratories

WORK ORDER Summary

17-Jun-23

WorkOrder: N057164

Client ID: AETL01

Project: BEF0098 **QC Level:** RTNE **Date Received:** 6/14/2023 3:03 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N057164-012A	BEF0098-61	6/12/2023 1:29:00 PM	6/20/2023	Soil	EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			6/20/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057164-013A	BEF0098-64	6/12/2023 1:52:00 PM	6/20/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			6/20/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057164-014A	BEF0098-67	6/12/2023 2:03:00 PM	6/20/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			6/20/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057164-015A	BEF0098-68	6/12/2023 2:05:00 PM	6/20/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			6/20/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057164-016A	BEF0098-74	6/12/2023 2:34:00 PM	6/20/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			6/20/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057164-017A	BEF0098-77	6/12/2023 2:24:00 PM	6/20/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			6/20/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057164-018A	FOLDER	6/20/2023	6/20/2023		Folder	Folder	☐	☐	☐	LAB
			6/20/2023		Folder	Folder	☐	☐	☐	LAB

GLS.

800-322-5555
www.gls-us.com

Ship From
ASSET LABORATORIES
THAD MALIT
11110 ARTESIA BLVD. SUITE B
CERRITOS, CA 90703

Ship To
ASSET LABORATORIES
MARLON CARTIN
3151 W. POST RD.,
LAS VEGAS, NV 89118

COD: $0.00
Weight: 0 lb(s)
Reference:

Delivery Instructions:
HOLD FOR PICKUP
Signature Type: STANDARD

Tracking #: 559592045

PDS

2.3°C 6/15/23 8:42am

LAS VEGAS

C89102A

88152733

LVS NV891-A 8

Print Date: 6/14/2023 4:18 PM

Print Label ☐ Print All Finish 1 of 1

LABEL INSTRUCTIONS:

Do not copy or reprint this label for additional shipments - each package must have a unique barcode.
Step 1: Use the "Print Label" button on this page to print the shipping label on a laser or inkjet printer.
Step 2: Fold this page in half.
Step 3: Securely attach this label to your package and do not cover the barcode.

TERMS AND CONDITIONS:

By giving us your shipment to deliver, you agree to all of the General Logistics Systems US, Inc. (GLS) service terms & conditions including, but not limited to; limits of liability, declared value conditions, and claim procedures which are available on our website at www.gls-us.com.

AMERICAN ENVIRONMENTAL TESTING LABORATORY, LLC
2840 North Naomi Street, Burbank, CA 91504 • ELAP# 1541 • LACSD# 10181
Telephone (888) 288-AETL • (818) 845-8200 • www.aetlab.com
A KYZER LABS COMPANY

July 06, 2023

AETL Job No: BEF0098.01
Received Date: 06/12/2023
Project Number: [none]

Parsons
100 West Walnut Street
Pasadena, CA 91124
Telephone: (626) 440-6200

Attention: Justin King

Project Name: Canoga Park High School

Site: LAUSD Canoga
6850 CA-27
Canoga Park, CA 91303

Enclosed please find the results of analyses for samples which were analyzed as specified on the attached chain of custody. If you have any questions concerning this report, please do not hesitate to call.

Checked By: Hailley Coleman
Hailley Coleman
Project Manager

Approved By: Joe Sevrean
Joe Sevrean
Laboratory Director

Table of Contents

Client Project Name: Canoga Park High School Project Number: [none]
Work Order Number: BEF0098

1 Cover Letter 1
2 Sample Condition on Receipt 3
3 Chain of Custody 4
4 Cooler Receipt Forms 10
5 Case Narrative 11
6 Samples Received 12
7 Positive Hits Summary 19
8 Analytical Results 20
9 Quality Control Results 26
10 Qualifiers and Definitions 28
11 Sub Contracted Analysis 30

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A KYZER LABS COMPANY

Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEF0098 [none] Justin King Canoga Park High School	Site: Reported:	LAUSD Canoga 6850 CA-27 Canoga Park, CA 91303 07/06/2023 09:22

Sample Condition on Receipt

Cooler ID: Default Cooler **Temperature: 5.7 °C**

Are the COCs Correct	Y		
Labels Legible	Y	Containers In Good Condition	Y
COC/Labels Agree	Y	Samples Preserved Properly	Y
Sufficient Sample Volume	Y	Sufficient Holding Time for all Tests	Y
Sample Labels intact	Y	Received on Ice	Y

Cooler ID: New Cooler **Temperature: 5.7 °C**

Are the COCs Correct	Y		
Labels Legible	Y	Containers In Good Condition	Y
COC/Labels Agree	Y	Samples Preserved Properly	Y
Sufficient Sample Volume	Y	Sufficient Holding Time for all Tests	Y
Sample Labels intact	Y	Received on Ice	Y

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

American Environmental Testing Laboratory Inc.
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CHAIN OF CUSTODY RECORD

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut Street Pasadena, CA 91124
PHONE FAX: (310) 809-5793
PROJECT NAME: Canoga Park High School
PROJECT #:
SITE NAME AND ADDRESS: LAUSD Canoga 6850 CA-27, Canoga Park, CA 91303
PO #:

AETL JOB No. BEF0078

ANALYSIS REQUESTED

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	STLL-Pb	TLLP-Pb	STLL-As	TLLP-As					TEST INSTRUCTIONS & COMMENTS
1	SB-26-W5-D0.5	BEF0078-01	6/12/2023	0815	Soil	1x9oz	none		X									
2	SB-26-W5-D2.0	-02		0817					X									Hold
3	SB-26-W5-D3.0	-03		0819														Hold
4	SB-26-W10-D0.5	-04		0825					X	E.D.								Hold
5	SB-26-W10-D2.0	-05		0827														Hold
6	SB-26-W10-D3.0	-06		0829														Hold
7	SB-26-S5-D0.5	-07		0837					X									
8	SB-26-S5-D0.5-DUP	-08		~~0841~~ 0839					X									
9	SB-26-S5-D2.0	-09		~~0843~~ 0841					X									Hold
10	SB-26-S5-D3.0	-10		~~0843~~ 0843														Hold
11	SB-26-S10-D0.5	-11		0849					X	E.D.								Hold
12	SB-26-S10-D2.0	-12		0851														Hold
13	SB-26-S10-D3.0	-13		0853														Hold
14	SB-26-E5-D0.5	-14		0901					X			X						
15	SB-26-E5-D2.0	-15		0903					X									Hold

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y / N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: [signature]	Signature:	Signature:
Printed Name: Edward Debys	Printed Name:	Printed Name:
Date: 6/12/2023 Time: 1600	Date: Time:	Date: Time:

TURN AROUND TIME	DATA DELIVERABLE REQUIRED
☑ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS	☐ HARD COPY ☐ PDF ☐ GEOTRACKER (GLOBAL ID) ☐ OTHER (PLEASE SPECIFY)

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: AETL 3.
Signature:	Signature:	Signature: [signature]
Printed Name:	Printed Name:	Printed Name: Gretta Giraldo
Date: Time:	Date: Time:	Date: 6/12/23 Time: 16:00

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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CHAIN OF CUSTODY RECORD

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut Street Pasadena, CA 91124
PHONE FAX: (310) 809-5793
PROJECT NAME: LAUSD Canoga
PROJECT #:
SITE NAME AND ADDRESS: Canoga Park Highschool 6850 CA-27, Canoga Park, CA 91303
PO #:

AETL JOB No. BEF0098

ANALYSIS REQUESTED

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010 B)	Arsenic (6020)	TEST INSTRUCTIONS & COMMENTS
1	SB-26-E5-D3.0	BEF0098-16	6/12/2023	0905	Soil	1 x 9oz	none			Hold
2	SB-26-E10-D0.5	-17		0912					X	Hold
3	SB-26-E10-D2.0	-18		0914						Hold
4	SB-26-E10-D3.0	-19		0916						Hold
5	SB-26-NW5-D0.5	-20		0806					X	
6	SB-26-NW5-D2.0	-21		0808					X	Hold
7	SB-26-NW5-D3.0	-22		0810						Hold
8	SB-1-NE5-D0.5	-23		1005				X	X	
9	SB-1-NE5-D2.0	-24		1007					X	Hold
10	SB-1-NE5-D3.0	-25		1010						Hold
11	SB-1-NW5-D0.5	-26		1016				X	X	
12	SB-1-NW5-D2.0	-27		1018					X	Hold
13	SB-1-NW5-D3.0	-28		1020						Hold
14	SB-1-NW10-D0.5	-29		1025					X	Hold
15	SB-1-NW10-D2.0	-30		1027						Hold

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y / N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: G. Salas	Signature:	Signature:
Printed Name: Edward Dobys	Printed Name:	Printed Name:
Date: 6/12/2023 Time: 1600	Date: Time:	Date: Time:
RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: AETL 3.
Signature:	Signature:	Signature:
Printed Name:	Printed Name:	Printed Name: Carlos Pineyro Ansun
Date: Time	Date: Time	Date: 6/12/23 Time: 16:00

TURN AROUND TIME: ☑ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

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TEL (888) 288-AETL (818) 845-8200 FAX (818) 845-8840 www.aetlab.com

CHAIN OF CUSTODY RECORD

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut Street Pasadena, CA 91124
PHONE FAX: (310) 809-5793
PROJECT NAME: LAUSD Canoga
PROJECT #:
SITE NAME AND ADDRESS: Canoga Park Highschool 6850 CA-27 Canoga Park, CA 91303
PO #:

AETL JOB No. BEF0098

ANALYSIS REQUESTED

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	STLC-Pb	TCLP-Pb	TEST INSTRUCTIONS & COMMENTS
1	SB-1-NW10-D3.0	BEF0098-31	6/12/23	1029	Soil	1x 9oz	none					Hold
2	SB-1-SW5-D0.5	32		1039				X	X	X	X	
3	SB-1-SW5-D0.5-DUP	33		1041				X	X			
4	SB-1-SW5-D2.0	34		1043				X	X			Hold
5	SB-1-SW5-D3.0	35		1045								Hold
6	SB-1-SW10-D0.5	36		1056				X	X			Hold
7	SB-1-SW10-D2.0	37		1058								Hold
8	SB-1-SW10-D3.0	38		1100								Hold
9	~~SB-3-NW5-D0.5~~											
10	~~SB-3-NW5-D0.5-DUP~~											
11	~~SB-3-NW5-2.0~~											
12	~~SB-3-NW5-3.0~~											
13	~~SB-3-NW10-0.5~~											
14	~~SB-3-NW10-2.0~~											
15	~~SB-3-NW10-3.0~~											

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y / N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: E. Salmon	Signature:	Signature:
Printed Name: Edward Dabsys	Printed Name:	Printed Name:
Date: 6/12/2023 Time: 1600	Date: Time:	Date: Time:

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: AETL 3.
Signature:	Signature:	Signature: [signature]
Printed Name:	Printed Name:	Printed Name: [illegible]
Date: Time:	Date: Time:	Date: 6/12/23 Time: 1600

TURN AROUND TIME: ☑ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

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CHAIN OF CUSTODY RECORD

111392

AETL JOB No. BEF0098

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut Street Pasadena, CA 91124
PHONE FAX: (310) 809-5743
PROJECT NAME: LAUSD Canoga
PROJECT #:
SITE NAME AND ADDRESS: Canoga Park Highschool 6850 CA27 Canoga Park, CA 91303
PO #:

ANALYSIS REQUESTED

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	STLC-Pb	TCLP-Pb							TEST INSTRUCTIONS & COMMENTS
1	SB-3-SW5-D0.5	BEF0098-39	6/12/2023	1124	Soil	1x9oz	none	X		X	X							
2	SB-3-SW5-D2.0	40		1126				X										Hold
3	SB-3-SW5-D3.0	41		1128														Hold
4	SB-3-SW10-D0.5	42		1136				X										Hold
5	SB-3-SW10-D2.0	43		1138														Hold
6	SB-3-SW10-D3.0	44		1140														Hold
7	SB-3-SE5-D0.5	45		1146				X		X	X							
8	SB-3-SE5-D0.5-Dup	46		1147				X		X	X							
9	SB-3-SE5-D2.0	47		1148				X										Hold
10	SB-3-SE5-D3.0	48		1150														Hold
11	SB-3-SE10-D0.5	49		1200				X										Hold
12	SB-3-SE10-D2.0	50		1202														Hold
13	SB-3-SE10-D3.0	51		1204														Hold
14	SB-44-W5-D0.5	52		1253					X									
15	SB-44-W5-D2.0	53		1255														Hold

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y / N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

TURN AROUND TIME: ☑ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED: ☐ HARD COPY ☐ PDF ☐ GEOTRACKER (GLOBAL ID) ____ ☐ OTHER (PLEASE SPECIFY) ____

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: [signature]	Signature:	Signature:
Printed Name: Edward Dabis	Printed Name:	Printed Name:
Date: 6/12/2023 Time: 1600	Date: Time:	Date: Time:
RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: 3.
Signature:	Signature:	Signature: [signature]
Printed Name:	Printed Name:	Printed Name: Preta Diragars
Date: Time:	Date: Time:	Date: 6/12/23 Time: 16:00

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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TEL (888) 288-AETL (818) 845-8200 FAX (818) 845-8840 www.aetlab.com

CHAIN OF CUSTODY RECORD

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut St. Pasadena, CA 91124
PHONE / FAX: (310) 809-5743
PROJECT NAME: LASD Canoga
PROJECT #:
SITE NAME AND ADDRESS: Canoga Park Highschool 6850 CA-27 Canoga Park, CA 91303
PO #:
AETL JOB No. BEF0076
Page 5 of 6

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	TEST INSTRUCTIONS & COMMENTS
1	SB-44-WS-D3.0	BEF0076-54	6/12/2023	1257	Soil	1x 9oz	none			Hold
2	SB-44-N5-D0.5	55		1305					X	
3	SB-44-N5-D2.0	56		1308					X	Hold
4	SB-44-N5-D3.0	57		1310						Hold
5	SB-44-N10-D0.5	58		1317					X	Hold
6	SB-44-N10-D2.0	59		1319						Hold
7	SB-44-N10-D3.0	60		1321						Hold
8	SB-44-S10-D0.5	61		1329					X	
9	SB-44-S10-D2.0	62		1331					X	Hold
10	SB-44-S10-D3.0	63		1334						Hold
11	SB-5-E5-D0.5	64		1352					X	
12	SB-5-E5-D2.0	65		1354					X	Hold
13	SB-5-E5-D3.0	66		1357						Hold
14	SB-5-NE5-D0.5	67		1403					X	
15	SB-5 NE5-D0.5 Dup	68	↓	1405	↓	↓	↓		X	

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y / N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

TURN AROUND TIME: ☑ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED: ☐ HARD COPY ☐ PDF ☐ GEOTRACKER (GLOBAL ID) _____ ☐ OTHER (PLEASE SPECIFY) _____

	RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:	E. Dakes		
Printed Name:	Edward Dakes		
Date / Time:	6/12/2023 1600		

	RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: 3.
Signature:			
Printed Name:			
Date / Time:			6/19/23 16:00

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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2834 NORTH NAOMI ST. BURBANK, CALIFORNIA 91504 DHS # 1541 LACSD# 10181
TEL (888) 288-AETL (818) 845-8200 FAX (818) 845-8840 www.aetlab.com

CHAIN OF CUSTODY RECORD

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut Street Pasadena, CA 91124
PHONE / FAX: (310) 809-5743
PROJECT NAME: LAUSD Canoga
PROJECT #:
SITE NAME AND ADDRESS: Canoga Park Highschool 6850 CA-27 Canoga Park, CA 91303
PO #:
AETL JOB No. BE-F0098
Page 6 of 6

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	TEST INSTRUCTIONS & COMMENTS
1	SB-5-NE5-D2.0	BEF0098-69	6/12/2023	1407	Soil	1 x 9oz	none			
2	SB-5-NE5-D3.0	-70		1410						Hold
3	SB-5-NE10-D0.5	-71		1414						Hold
4	SB-5-NE10-D2.0	-72		1416						Hold
5	SB-5-NE10-D3.0	-73		1418						Hold
6	SB-5-NW5-D0.5	-74	1432	1434 ~~1434~~ ED				X		
7	SB-5-NW5-D2.0	-75	1437	1426 ED				X		Hold
8	SB-5-NW5-D3.0	-76	1434	1420 ED						Hold
9	SB-5-W5-D0.5	-77	1432	1434 ED				X		
10	SB-5-W5-D2.0	-78	1426	1437 ED						Hold
11	SB-5-W5-D3.0	-79	1428	1434 ED						Hold
12										
13										
14										
15										

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y/ N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

TURN AROUND TIME: ☑ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED: ☐ HARD COPY ☐ PDF ☐ GEOTRACKER (GLOBAL ID) _____ ☐ OTHER (PLEASE SPECIFY) _____

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:	Signature:	Signature:
Printed Name: Edward Dabys	Printed Name:	Printed Name:
Date: 6/12/2023 Time: 1600	Date: Time:	Date: Time:
RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: 3.
Signature:	Signature:	Signature:
Printed Name:	Printed Name:	Printed Name:
Date: Time:	Date: Time:	Date: 6/12/23 Time: 1600

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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COOLER RECEIPT FORM

Client Name: Parsons

Project Name: Canoga Park High School Project No.:

AETL Job Number: BEF0102

Date Received: 06/12/2023 Received by: Greta G

Carrier: ☐ AETL Courier ☑ Client ☐ GSL ☐ FedEx ☐ UPS
☐Others:

Samples were received in: ☑ Cooler (__1_____) ☐ Other (Specify)**:**

Sample Container Temperature: __5.7__ °C IR Gun S/N: 51941911MV

Type of sample containers: ☐ VOA, ☐ Glass bottles, ☑Wide mouth jars, ☐HDPE bottles, ☐ Metal sleeves, ☐ Acetate sleeves, ☐ 5035 Kit: ☐ AETL or ☐ Client, ☐ Tedlar Bags, Summa Canister: ☐ 6L, ☐ 3L, ☐ 1L, Others (Specify): _____

How are samples preserved: ☐ None, ☑ Ice, ☐ Blue Ice, ☐ Dry Ice
☑ None, ☐ HNO_3, ☐ NaOH, ☐ ZnOAc, ☐ HCl, ☐ $Na_2S_2O_3$, ☐ MeOH, ☐ $NaHSO_4$
☐ Other (Specify):

	Yes	No	N/A	Note or Comment
1. Are the COCs Correct?	✔			
2. Are Sample labels legible & indelible ink?	✔			
3. Do samples match the COC?	✔			
4. Are the required analyses clear?	✔			
5. Is there enough samples for required analysis?	✔			
6. Does cooler or samples have custody seal(s)?			✔	
7. Are sample containers in good condition?	✔			
8. Are samples preserved?	✔			
9. Are samples preserved properly for the intended analysis?	✔			
10. Are the VOAs free of headspace? See footnote.			✔	
11. Are the jars free of headspace?			✔	

* = see note below. N/A = Not Applicable

PLEASE NOTE ALL SAMPLES WILL BE DISPOSED OF 30 DAYS AFTER RECEIVING DATE. IF AETL IS INFORMED OTHERWISE, THERE WILL BE A STORAGE CHARGE PER SAMPLE PER MONTH FOR ANY SAMPLE HELD BEYOND 30 DAYS.

◯ Example maximum headspace bubble size; acceptance criteria not to exceed 5-6 mm in diameter.

For headspace bubbles exceeding 6 mm in diameter, sample receiving will tag the VOA and notify the Project Manager. The Project Manager will contact client for Analyze or Resample instructions.

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A KYZER LABS COMPANY

Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEF0098 [none] Justin King Canoga Park High School	Site: Reported:	LAUSD Canoga 6850 CA-27 Canoga Park, CA 91303 07/06/2023 09:22

Case Narrative

The following "Sample Received" Section summarizes the samples received and associated analyses requested as specified on the enclosed chain of custody.

Results as reported by the laboratory apply only to 1) the items tested, 2) as the samples are received, and 3) the accuracy of information provided. Information supplied by the customer that may affect validity of results and may be contained in this report include Project Name/Number, Site Location, Sample Locations, Sampling Dates/Times, Sample ID, Sample Preservation, Sample Matrix, Sample Properties, Field Blanks, Field Duplicates, Field Spikes, and Site Historical Data.

Accreditation applies only to the test methods listed on each scope of accreditation held by the laboratory; certifications held by the laboratory may not apply to results supplied in this report.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

Qualifiers are noted in the report.

The samples were subcontracted to Asset Laboratories for EPA 6020-As, STLC, and TCLP. Please see attached report for results.

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEF0098 [none] Justin King Canoga Park High School	Site: Reported:	LAUSD Canoga 6850 CA-27 Canoga Park, CA 91303 07/06/2023 09:22

Samples Received

AETL received the following samples on 06/12/2023 with the following specifications

Client ID SB-26-W5-D2.0 — **Sample Date** 06/12/2023 8:17

Lab ID	Matrix	Quantity of Containers
BEF0098-02	Soil	2

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Client ID SB-26-W10-D0.5 — **Sample Date** 06/12/2023 8:25

Lab ID	Matrix	Quantity of Containers
BEF0098-04	Soil	2

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Client ID SB-26-S5-D2.0 — **Sample Date** 06/12/2023 8:41

Lab ID	Matrix	Quantity of Containers
BEF0098-09	Soil	2

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Client ID SB-26-S10-D0.5 — **Sample Date** 06/12/2023 8:49

Lab ID	Matrix	Quantity of Containers
BEF0098-11	Soil	2

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEF0098 [none] Justin King Canoga Park High School	Site: Reported:	LAUSD Canoga 6850 CA-27 Canoga Park, CA 91303 07/06/2023 09:22

Samples Received
(Continued)

AETL received the following samples on 06/12/2023 with the following specifications

Client ID: SB-26-E5-D0.5 — **Sample Date:** 06/12/2023 9:01
Lab ID: BEF0098-14 — **Matrix:** Soil — **Quantity of Containers:** 2

Method	Analyte	Units	TAT
EPA 6010B-STLC	STLC Arsenic by ICP	mg/L	5

Client ID: SB-26-E5-D2.0 — **Sample Date:** 06/12/2023 9:03
Lab ID: BEF0098-15 — **Matrix:** Soil — **Quantity of Containers:** 2

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Client ID: SB-26-E10-D0.5 — **Sample Date:** 06/12/2023 9:12
Lab ID: BEF0098-17 — **Matrix:** Soil — **Quantity of Containers:** 2

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Client ID: SB-26-NW5-D2.0 — **Sample Date:** 06/12/2023 8:08
Lab ID: BEF0098-21 — **Matrix:** Soil — **Quantity of Containers:** 2

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

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Parsons	AETL Job Number:	BEF0098	Site:	LAUSD Canoga	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	Canoga Park High School	Reported:	07/06/2023 09:22	

Samples Received

(Continued)

AETL received the following samples on 06/12/2023 with the following specifications

Client ID SB-1-NE5-D2.0 — **Sample Date** 06/12/2023 10:07

Lab ID BEF0098-24 — **Matrix** Soil — **Quantity of Containers** 2

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Client ID SB-1-NW5-D2.0 — **Sample Date** 06/12/2023 10:18

Lab ID BEF0098-27 — **Matrix** Soil — **Quantity of Containers** 2

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Client ID SB-1-NW10-D0.5 — **Sample Date** 06/12/2023 10:25

Lab ID BEF0098-29 — **Matrix** Soil — **Quantity of Containers** 2

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Client ID SB-1-SW5-D0.5 — **Sample Date** 06/12/2023 10:39

Lab ID BEF0098-32 — **Matrix** Soil — **Quantity of Containers** 2

Method	Analyte	Units	TAT
EPA 6010B-1311 TCLP	TCLP Lead by ICP	mg/L	5
EPA 6010B-STLC	STLC Lead by ICP	mg/L	5

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Parsons	AETL Job Number:	BEF0098	Site:	LAUSD Canoga	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	Canoga Park High School	Reported:	07/06/2023 09:22	

Samples Received

(Continued)

AETL received the following samples on 06/12/2023 with the following specifications

Client ID			Sample Date
SB-1-SW5-D2.0			06/12/2023 10:43
Lab ID		**Matrix**	**Quantity of Containers**
BEF0098-34		Soil	2

Method	Analyte	Units	TAT
EPA 6010B	Lead, total by ICP	mg/kg	5
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Client ID			Sample Date
SB-1-SW10-D0.5			06/12/2023 10:56
Lab ID		**Matrix**	**Quantity of Containers**
BEF0098-36		Soil	2

Method	Analyte	Units	TAT
EPA 6010B	Lead, total by ICP	mg/kg	5
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Client ID			Sample Date
SB-3-SW5-D0.5			06/12/2023 11:24
Lab ID		**Matrix**	**Quantity of Containers**
BEF0098-39		Soil	2

Method	Analyte	Units	TAT
EPA 6010B-1311 TCLP	TCLP Lead by ICP	mg/L	5
EPA 6010B-STLC	STLC Lead by ICP	mg/L	5

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Parsons	AETL Job Number:	BEF0098	Site:	LAUSD Canoga	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	Canoga Park High School	Reported:	07/06/2023 09:22	

Samples Received

(Continued)

AETL received the following samples on 06/12/2023 with the following specifications

Client ID: SB-3-SW5-D2.0 — **Sample Date:** 06/12/2023 11:26

Lab ID: BEF0098-40 — **Matrix:** Soil — **Quantity of Containers:** 1

Method	Analyte	Units	TAT
EPA 6010B	Lead, total by ICP	mg/kg	5

Client ID: SB-3-SW10-D0.5 — **Sample Date:** 06/12/2023 11:36

Lab ID: BEF0098-42 — **Matrix:** Soil — **Quantity of Containers:** 1

Method	Analyte	Units	TAT
EPA 6010B	Lead, total by ICP	mg/kg	5

Client ID: SB-3-SE5-D0.5 — **Sample Date:** 06/12/2023 11:46

Lab ID: BEF0098-45 — **Matrix:** Soil — **Quantity of Containers:** 2

Method	Analyte	Units	TAT
EPA 6010B-1311 TCLP	TCLP Lead by ICP	mg/L	5
EPA 6010B-STLC	STLC Lead by ICP	mg/L	5

Client ID: SB-3-SE5-D0.5-DUP — **Sample Date:** 06/12/2023 11:47

Lab ID: BEF0098-46 — **Matrix:** Soil — **Quantity of Containers:** 2

Method	Analyte	Units	TAT
EPA 6010B-1311 TCLP	TCLP Lead by ICP	mg/L	5
EPA 6010B-STLC	STLC Lead by ICP	mg/L	5

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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEF0098 [none] Justin King Canoga Park High School	Site: Reported:	LAUSD Canoga 6850 CA-27 Canoga Park, CA 91303 07/06/2023 09:22

Samples Received
(Continued)

AETL received the following samples on 06/12/2023 with the following specifications

Client ID	Sample Date
SB-3-SE5-D2.0	06/12/2023 11:48

Lab ID	Matrix	Quantity of Containers
BEF0098-47	Soil	1

Method	Analyte	Units	TAT
EPA 6010B	Lead, total by ICP	mg/kg	5

Client ID	Sample Date
SB-3-SE10-D0.5	06/12/2023 12:00

Lab ID	Matrix	Quantity of Containers
BEF0098-49	Soil	1

Method	Analyte	Units	TAT
EPA 6010B	Lead, total by ICP	mg/kg	5

Client ID	Sample Date
SB-44-N5-D2.0	06/12/2023 13:08

Lab ID	Matrix	Quantity of Containers
BEF0098-56	Soil	2

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Client ID	Sample Date
SB-44-N10-D0.5	06/12/2023 13:17

Lab ID	Matrix	Quantity of Containers
BEF0098-58	Soil	2

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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Parsons	AETL Job Number:	BEF0098	Site:	LAUSD Canoga	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	Canoga Park High School	Reported:	07/06/2023 09:22	

Samples Received

(Continued)

AETL received the following samples on 06/12/2023 with the following specifications

Client ID			Sample Date
SB-44-S10-D2.0			06/12/2023 13:31
Lab ID		**Matrix**	**Quantity of Containers**
BEF0098-62		Soil	2
Method	**Analyte**	**Units**	**TAT**
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Client ID			Sample Date
SB-5-E5-D2.0			06/12/2023 13:54
Lab ID		**Matrix**	**Quantity of Containers**
BEF0098-65		Soil	2
Method	**Analyte**	**Units**	**TAT**
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Client ID			Sample Date
SB-5-NW5-D2.0			06/12/2023 14:37
Lab ID		**Matrix**	**Quantity of Containers**
BEF0098-75		Soil	2
Method	**Analyte**	**Units**	**TAT**
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Total Number of Samples received: 26

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEF0098 [none] Justin King Canoga Park High School	Site: Reported:	LAUSD Canoga 6850 CA-27 Canoga Park, CA 91303 07/06/2023 09:22

Positive Hits Summary

Lab ID	Client ID				Sampled
BEF0098-34	SB-1-SW5-D2.0				06/12/2023 10:43
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	6.06		mg/kg	06/28/2023 13:59
Lab ID	**Client ID**				**Sampled**
BEF0098-36	SB-1-SW10-D0.5				06/12/2023 10:56
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	30.3		mg/kg	06/28/2023 14:02
Lab ID	**Client ID**				**Sampled**
BEF0098-40	SB-3-SW5-D2.0				06/12/2023 11:26
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	7.18		mg/kg	06/28/2023 14:05
Lab ID	**Client ID**				**Sampled**
BEF0098-42	SB-3-SW10-D0.5				06/12/2023 11:36
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	57.4		mg/kg	06/28/2023 14:14
Lab ID	**Client ID**				**Sampled**
BEF0098-47	SB-3-SE5-D2.0				06/12/2023 11:48
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	4.82	J	mg/kg	06/28/2023 14:17
Lab ID	**Client ID**				**Sampled**
BEF0098-49	SB-3-SE10-D0.5				06/12/2023 12:00
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	190		mg/kg	06/28/2023 14:20

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Parsons	AETL Job Number:	BEF0098	Site:	LAUSD Canoga	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	Canoga Park High School	Reported:	07/06/2023 09:22	

Analytical Results

Client ID: SB-1-SW5-D2.0
Lab ID: BEF0098-34 (Soil) **Sampled:** 06/12/23 10:43

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Lead	**6.06**		1	0.550	5.00	mg/kg	06/27/23 10:02	06/28/23 13:59	B3F0368	LC	3050B

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2840 North Naomi Street, Burbank, CA 91504 • ELAP# 1541 • LACSD# 10181
Telephone (888) 288-AETL • (818) 845-8200 • www.aetlab.com
A KYZER LABS COMPANY

Parsons	AETL Job Number:	BEF0098	Site:	LAUSD Canoga	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	Canoga Park High School	Reported:	07/06/2023 09:22	

Analytical Results

Client ID: SB-1-SW10-D0.5
Lab ID: BEF0098-36 (Soil) **Sampled:** 06/12/23 10:56

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Lead	**30.3**		1	0.550	5.00	mg/kg	06/27/23 10:02	06/28/23 14:02	B3F0368	LC	3050B

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Parsons	AETL Job Number:	BEF0098	Site:	LAUSD Canoga	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	Canoga Park High School	Reported:	07/06/2023 09:22	

Analytical Results

Client ID: SB-3-SW5-D2.0
Lab ID: BEF0098-40 (Soil) **Sampled:** 06/12/23 11:26

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Lead	**7.18**		1	0.550	5.00	mg/kg	06/27/23 10:02	06/28/23 14:05	B3F0368	LC	3050B

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Parsons	AETL Job Number:	BEF0098	Site:	LAUSD Canoga	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	Canoga Park High School	Reported:	07/06/2023 09:22	

Analytical Results

Client ID: SB-3-SW10-D0.5
Lab ID: BEF0098-42 (Soil) **Sampled:** 06/12/23 11:36

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Lead	**57.4**		1	0.550	5.00	mg/kg	06/27/23 10:02	06/28/23 14:14	B3F0368	LC	3050B

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Parsons	AETL Job Number:	BEF0098	Site:	LAUSD Canoga	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	Canoga Park High School	Reported:	07/06/2023 09:22	

Analytical Results

Client ID: SB-3-SE5-D2.0
Lab ID: BEF0098-47 (Soil) **Sampled:** 06/12/23 11:48

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Lead	**4.82**	J	1	0.550	5.00	mg/kg	06/27/23 10:02	06/28/23 14:17	B3F0368	LC	3050B

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Parsons	AETL Job Number:	BEF0098	Site:	LAUSD Canoga	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	Canoga Park High School	Reported:	07/06/2023 09:22	

Analytical Results

Client ID: SB-3-SE10-D0.5
Lab ID: BEF0098-49 (Soil) **Sampled:** 06/12/23 12:00

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Lead	**190**		1	0.550	5.00	mg/kg	06/27/23 10:02	06/28/23 14:20	B3F0368	LC	3050B

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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEF0098 [none] Justin King Canoga Park High School	Site: Reported:	LAUSD Canoga 6850 CA-27 Canoga Park, CA 91303 07/06/2023 09:22

Quality Control Results

Metals Total (EPA 6010B)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3F0368 - 3050B					**Prepared: 06/27/2023 10:02**						
Method Blank (B3F0368-BLK1)					**Analyzed: 06/28/2023 13:39**						
Lead	ND	0.550	5.00	mg/kg							

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Parsons	AETL Job Number:	BEF0098	Site:	LAUSD Canoga	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	Canoga Park High School	Reported:	07/06/2023 09:22	

Quality Control Results

Metals Total (EPA 6010B)

Analyte	Result		RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3F0368 - 3050B (Continued)					**Prepared: 06/27/2023 10:02**						
LCS (B3F0368-BS1)					**Analyzed: 06/28/2023 13:42**						
Lead	102		5.00	mg/kg				75-125			
LCSD (B3F0368-BSD1)					**Analyzed: 06/28/2023 13:45**						
Lead	104		5.00	mg/kg				75-125	2.00	15	
Duplicate (B3F0368-DUP1)		**Source: BEF0241-01**			**Analyzed: 06/28/2023 13:51**						
Lead	5.28	0.550	5.00	mg/kg		4.62			13.3	20	
Matrix Spike (B3F0368-MS1)		**Source: BEF0241-01**			**Analyzed: 06/29/2023 11:05**						
Lead	128	0.550	5.00	mg/kg		4.62		75-125			
Matrix Spike Dup (B3F0368-MSD1)		**Source: BEF0241-01**			**Analyzed: 06/29/2023 11:07**						
Lead	87.8	0.550	5.00	mg/kg		4.62		75-125	37.0	15	R

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A KYZER LABS COMPANY

Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEF0098 [none] Justin King Canoga Park High School	Site: Reported:	LAUSD Canoga 6850 CA-27 Canoga Park, CA 91303 07/06/2023 09:22

Qualifiers and Definitions

Item	Qualifiers
J	Analyte was detected. However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Reporting Limit (RL).
R	The RPD was outside of QC acceptance limits due to possible matrix interference.

Item	Definitions
% wt	Percent Weight
%REC	Percent Recovery
°F	Degrees Fahrenheit
AETL	American Environmental Testing Laboratory, LLC
C	Carbon
CARB	California Air Resources Board
COC	Chain of Custody
Cresols	3-methylphenol/4-methylphenol coelute and cannot be chromatographically separated. Due to this coeluting isomer pair phenomenon, the laboratory uses a single cresol (4-methylphenol) as calibration standard for 3-methylphenol/4-methylphenol.
CRM	Certified Reference Material
DI	Deionized Water
DPD	Department of Planning and Development
DRO	Diesel Range Organics
Dup	Duplicate
ELAP	Environmental Laboratory Accreditation Program
EPA	Environmental Protection Agency
GC/FID	Gas Chromatography Flame Ionization Detection
GRO	Gasoline Range Organics
HC	Hydrocarbon
HEM	Hexane Extractable Material
HMU	Hazardous Material Unit
ICP/MS	Inductively Coupled Plasma Mass Spectrometry
LACSD	Los Angeles County Sanitation Districts
LCS	Laboratory Control Sample - A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes.
LCSD	Laboratory Control Sample Duplicate - A replicate of Laboratory Control Sample.
LOQ	Limit of Quantitation
MDL	Method Detection Limit - The minimum measured concentration of a substance that can be reported with 99% confidence. MDL is statistically derived number which is specific for each instrument, each method and each compound.
mg/kg	Miligrams per Kilogram
mg/L	Miligrams per Liter
ml/L/hr	Milliliter per Liter per Hour
MRO	Motor oil Range Organics

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Parsons	AETL Job Number:	BEF0098	Site:	LAUSD Canoga	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	Canoga Park High School	Reported:	07/06/2023 09:22	

MS	Matrix Spike - A sample prepared, taken through all sample preparation and analytical steps of the procedure and analyzed as an independent test results.
MSD	Matrix Spike Duplicate - A replicate of Matrix Spike Sample.
N	No
ND	Analyte is not detected below Method Detection Limit.
ng/m3	Nanograms per cubic meter
NIOSH	National Institute for Occupational Safety and Health
nL/L	Nanoliters per Liter
NTU	Nephelometric Turbidity Units
Ohm-cm	Ohms per centimeter
ORO	Oil Range Organics
OSHA	Occupational Safety and Health Administration
PCB	Polychlorinated Biphenyl
ppb v	Parts per billion by volume
ppmC	Parts per million Carbon
PSU	Practical Salinity Unit
RL	Reporting Limit - The lowest concentration at which an analyte can be detected in a sample and its concentration can be reported with a specified degree of confidence, accuracy and precision. For usage at AETL, RL is equivalant to LOQ.
RPD	Relative Percent Difference
SIM	Selective Ion Monitoring
SM	Standard Method
SPLP	Synthetic Precipitation Leaching Procedure
STLC	Soluble Threshold Limit Concentration
TCLP	Toxicity Characteristic Leaching Procedure
TPH	Total Petroleum Hydrocarbons
TTLC	Total Threshold Limit Concentrations
ug/kg	Micrograms per Kilogram
ug/L	Micrograms per Liter
ug/m3	Micrograms per cubic meter
WET	Waste Extraction Test
Y	Yes
ZHE	Zero Headspace Extraction

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July 05, 2023

Hailley Coleman
American Environmental Testing Laboratory, Inc.
2834 N. Naomi Street
Burbank, CA 91504

TEL: (818) 845-8200
FAX:

Workorder No.: N057413

RE: BEF0098.01

Attention: Hailley Coleman

Enclosed are the results for sample(s) received on June 27, 2023 by ASSET Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562) 219-7435 if I can be of further assistance to your company.

Sincerely,

for

Ferdinand Paul Lugtu
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and ASSET Laboratories - California.

SAMPLE RECEIVING/GENERAL COMMENTS:

All sample containers were received intact with proper chain of custody documentation.

Information on sample receipt conditions including discrepancies can be found in attached Sample Receipt Checklist Form.

Cooler temperature and sample preservation were verified upon receipt of samples if applicable.

Samples were analyzed within method holding time.

Analytical Comments for EPA 6010B_STLC:

Dilution was necessary due to matrix.

Analytical Comments for EPA 1311/ 6010B:

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria for Lead in QC samples N057393-001A-MS/MSD possibly due to matrix interference. The associated Laboratory Control Sample (LCS) recovery was acceptable.

CLIENT: American Environmental Testing Laborator
Project: BEF0098.01
Lab Order: N057413
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N057413-001A	BEF0098-02	Soil	6/12/2023 8:17:00 AM	6/27/2023	7/5/2023
N057413-002A	BEF0098-04	Soil	6/12/2023 8:25:00 AM	6/27/2023	7/5/2023
N057413-003A	BEF0098-09	Soil	6/12/2023 8:41:00 AM	6/27/2023	7/5/2023
N057413-004A	BEF0098-11	Soil	6/12/2023 8:49:00 AM	6/27/2023	7/5/2023
N057413-005A	BEF0098-14	Soil	6/12/2023 9:01:00 AM	6/27/2023	7/5/2023
N057413-006A	BEF0098-15	Soil	6/12/2023 9:03:00 AM	6/27/2023	7/5/2023
N057413-007A	BEF0098-17	Soil	6/12/2023 9:12:00 AM	6/27/2023	7/5/2023
N057413-008A	BEF0098-21	Soil	6/12/2023 8:08:00 AM	6/27/2023	7/5/2023
N057413-009A	BEF0098-24	Soil	6/12/2023 10:07:00 AM	6/27/2023	7/5/2023
N057413-010A	BEF0098-27	Soil	6/12/2023 10:18:00 AM	6/27/2023	7/5/2023
N057413-011A	BEF0098-29	Soil	6/12/2023 10:25:00 AM	6/27/2023	7/5/2023
N057413-012A	BEF0098-32	Soil	6/12/2023 10:39:00 AM	6/27/2023	7/5/2023
N057413-013A	BEF0098-34	Soil	6/12/2023 10:43:00 AM	6/27/2023	7/5/2023
N057413-014A	BEF0098-36	Soil	6/12/2023 10:56:00 AM	6/27/2023	7/5/2023
N057413-015A	BEF0098-39	Soil	6/12/2023 11:24:00 AM	6/27/2023	7/5/2023
N057413-016A	BEF0098-45	Soil	6/12/2023 11:46:00 AM	6/27/2023	7/5/2023
N057413-017A	BEF0098-46	Soil	6/12/2023 11:47:00 AM	6/27/2023	7/5/2023
N057413-018A	BEF0098-56	Soil	6/12/2023 1:08:00 PM	6/27/2023	7/5/2023
N057413-019A	BEF0098-58	Soil	6/12/2023 1:17:00 PM	6/27/2023	7/5/2023
N057413-020A	BEF0098-62	Soil	6/12/2023 1:31:00 PM	6/27/2023	7/5/2023
N057413-021A	BEF0098-65	Soil	6/12/2023 1:54:00 PM	6/27/2023	7/5/2023
N057413-022A	BEF0098-75	Soil	6/12/2023 2:37:00 PM	6/27/2023	7/5/2023

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0098-02
Lab Order:	N057413		
Project:	BEF0098.01	**Collection Date:**	6/12/2023 8:17:00 AM
Lab ID:	N057413-001	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230628D	QC Batch: 100516			PrepDate:	6/28/2023	Analyst: **DJ**
Arsenic	4.1	0.50		mg/Kg	1	6/29/2023 04:30 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0098-04
Lab Order:	N057413		
Project:	BEF0098.01	**Collection Date:**	6/12/2023 8:25:00 AM
Lab ID:	N057413-002	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230628D	QC Batch: 100516			PrepDate:	6/28/2023	Analyst: **DJ**
Arsenic	18	0.50		mg/Kg	1	6/29/2023 04:53 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0098-09
Lab Order:	N057413		
Project:	BEF0098.01	**Collection Date:**	6/12/2023 8:41:00 AM
Lab ID:	N057413-003	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230628D	QC Batch: 100516			PrepDate:	6/28/2023	Analyst: **DJ**
Arsenic	4.4	0.50		mg/Kg	1	6/29/2023 05:12 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0098-11
Lab Order:	N057413		
Project:	BEF0098.01	**Collection Date:**	6/12/2023 8:49:00 AM
Lab ID:	N057413-004	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230628D	QC Batch: 100516			PrepDate:	6/28/2023	Analyst: **DJ**
Arsenic	70	0.50		mg/Kg	1	6/29/2023 05:16 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0098-14
Lab Order:	N057413		
Project:	BEF0098.01	**Collection Date:**	6/12/2023 9:01:00 AM
Lab ID:	N057413-005	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS BY STLC						
	EPA 3010A			**WET/ EPA 6010B**		
RunID: CA01638-ICP01_230702A	QC Batch: 100591			PrepDate:	7/2/2023	Analyst: **PL**
Arsenic	4.9	0.25		mg/L	5	7/2/2023 05:15 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0098-15
Lab Order:	N057413		
Project:	BEF0098.01	**Collection Date:**	6/12/2023 9:03:00 AM
Lab ID:	N057413-006	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230628D	QC Batch: 100516			PrepDate:	6/28/2023	Analyst: **DJ**
Arsenic	4.0	0.50		mg/Kg	1	6/29/2023 05:21 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0098-17
Lab Order:	N057413		
Project:	BEF0098.01	**Collection Date:**	6/12/2023 9:12:00 AM
Lab ID:	N057413-007	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230629B	QC Batch: 100516			PrepDate:	6/28/2023	Analyst: **DJ**
Arsenic	110	2.5		mg/Kg	5	6/29/2023 03:27 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0098-21
Lab Order:	N057413		
Project:	BEF0098.01	**Collection Date:**	6/12/2023 8:08:00 AM
Lab ID:	N057413-008	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230628D	QC Batch: 100516			PrepDate:	6/28/2023	Analyst: **DJ**
Arsenic	3.5	0.50		mg/Kg	1	6/29/2023 05:30 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0098-24
Lab Order:	N057413		
Project:	BEF0098.01	**Collection Date:**	6/12/2023 10:07:00 AM
Lab ID:	N057413-009	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230628D	QC Batch: 100516			PrepDate:	6/28/2023	Analyst: **DJ**
Arsenic	5.8	0.50		mg/Kg	1	6/29/2023 05:35 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0098-27
Lab Order:	N057413		
Project:	BEF0098.01	**Collection Date:**	6/12/2023 10:18:00 AM
Lab ID:	N057413-010	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230628D	QC Batch: 100516			PrepDate:	6/28/2023	Analyst: **DJ**
Arsenic	18	0.50		mg/Kg	1	6/29/2023 05:40 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0098-29
Lab Order:	N057413		
Project:	BEF0098.01	**Collection Date:**	6/12/2023 10:25:00 AM
Lab ID:	N057413-011	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230628D	QC Batch: 100516			PrepDate:	6/28/2023	Analyst: **DJ**
Arsenic	11	0.50		mg/Kg	1	6/29/2023 05:44 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0098-32
Lab Order:	N057413		
Project:	BEF0098.01	**Collection Date:**	6/12/2023 10:39:00 AM
Lab ID:	N057413-012	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS BY STLC						
EPA 3010A				**WET/ EPA 6010B**		
RunID: CA01638-ICP01_230702A QC Batch: 100588				PrepDate:	7/2/2023	Analyst: **PL**
Lead	7.2	0.25		mg/L	5	7/2/2023 05:24 PM
ICP METALS BY TCLP EXTRACTION						
EPA 3010A				**EPA 1311/ 6010B**		
RunID: CA01638-ICP01_230702B QC Batch: 100543				PrepDate:	6/29/2023	Analyst: **PL**
Lead	ND	0.050		mg/L	1	7/2/2023 03:22 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0098-34
Lab Order:	N057413		
Project:	BEF0098.01	**Collection Date:**	6/12/2023 10:43:00 AM
Lab ID:	N057413-013	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230628D	QC Batch: 100516			PrepDate:	6/28/2023	Analyst: **DJ**
Arsenic	18	0.50		mg/Kg	1	6/29/2023 05:49 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0098-36
Lab Order:	N057413		
Project:	BEF0098.01	**Collection Date:**	6/12/2023 10:56:00 AM
Lab ID:	N057413-014	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230628D	QC Batch: 100516			PrepDate:	6/28/2023	Analyst: **DJ**
Arsenic	12	0.50		mg/Kg	1	6/29/2023 06:07 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0098-39
Lab Order:	N057413		
Project:	BEF0098.01	**Collection Date:**	6/12/2023 11:24:00 AM
Lab ID:	N057413-015	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS BY STLC						
EPA 3010A				**WET/ EPA 6010B**		
RunID: CA01638-ICP01_230702A QC Batch: 100588				PrepDate:	7/2/2023	Analyst: **PL**
Lead	7.1	0.25		mg/L	5	7/2/2023 05:27 PM
ICP METALS BY TCLP EXTRACTION						
EPA 3010A				**EPA 1311/ 6010B**		
RunID: CA01638-ICP01_230702B QC Batch: 100543				PrepDate:	6/29/2023	Analyst: **PL**
Lead	ND	0.050		mg/L	1	7/2/2023 03:25 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0098-45
Lab Order:	N057413		
Project:	BEF0098.01	**Collection Date:**	6/12/2023 11:46:00 AM
Lab ID:	N057413-016	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS BY STLC						
EPA 3010A				**WET/ EPA 6010B**		
RunID: CA01638-ICP01_230702A QC Batch: 100588				PrepDate:	7/2/2023	Analyst: **PL**
Lead	8.2	0.25		mg/L	5	7/2/2023 05:30 PM
ICP METALS BY TCLP EXTRACTION						
EPA 3010A				**EPA 1311/ 6010B**		
RunID: CA01638-ICP01_230702B QC Batch: 100543				PrepDate:	6/29/2023	Analyst: **PL**
Lead	ND	0.050		mg/L	1	7/2/2023 03:34 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0098-46
Lab Order:	N057413		
Project:	BEF0098.01	**Collection Date:**	6/12/2023 11:47:00 AM
Lab ID:	N057413-017	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS BY STLC						
EPA 3010A				**WET/ EPA 6010B**		
RunID: CA01638-ICP01_230702A QC Batch: 100588				PrepDate: 7/2/2023		Analyst: **PL**
Lead	17	0.25		mg/L	5	7/2/2023 05:33 PM
ICP METALS BY TCLP EXTRACTION						
EPA 3010A				**EPA 1311/ 6010B**		
RunID: CA01638-ICP01_230702B QC Batch: 100543				PrepDate: 6/29/2023		Analyst: **PL**
Lead	ND	0.050		mg/L	1	7/2/2023 03:37 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0098-56
Lab Order:	N057413		
Project:	BEF0098.01	**Collection Date:**	6/12/2023 1:08:00 PM
Lab ID:	N057413-018	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230628D	QC Batch: 100516			PrepDate:	6/28/2023	Analyst: **DJ**
Arsenic	11	0.50		mg/Kg	1	6/29/2023 06:12 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0098-58
Lab Order:	N057413		
Project:	BEF0098.01	**Collection Date:**	6/12/2023 1:17:00 PM
Lab ID:	N057413-019	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230628D	QC Batch: 100516			PrepDate:	6/28/2023	Analyst: **DJ**
Arsenic	31	0.50		mg/Kg	1	6/29/2023 06:17 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0098-62
Lab Order:	N057413		
Project:	BEF0098.01	**Collection Date:**	6/12/2023 1:31:00 PM
Lab ID:	N057413-020	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230628D	QC Batch: 100516			PrepDate:	6/28/2023	Analyst: **DJ**
Arsenic	11	0.50		mg/Kg	1	6/29/2023 06:21 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0098-65
Lab Order:	N057413		
Project:	BEF0098.01	**Collection Date:**	6/12/2023 1:54:00 PM
Lab ID:	N057413-021	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230628D	QC Batch: 100516			PrepDate:	6/28/2023	Analyst: **DJ**
Arsenic	6.0	0.50		mg/Kg	1	6/29/2023 06:26 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0098-75
Lab Order:	N057413		
Project:	BEF0098.01	**Collection Date:**	6/12/2023 2:37:00 PM
Lab ID:	N057413-022	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230628D	QC Batch: 100516			PrepDate:	6/28/2023	Analyst: **DJ**
Arsenic	7.8	0.50		mg/Kg	1	6/29/2023 06:31 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: American Environmental Testing Laboratory, Inc.
Work Order: N057413
Project: BEF0098.01

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_S_PPM

Sample ID: **MB-100516**	SampType: **MBLK**	TestCode: **6020_S_PPM**	Units: **mg/Kg**	Prep Date: **6/28/2023**	RunNo: **173557**
Client ID: **PBS**	Batch ID: **100516**	TestNo: **EPA 6020**	**EPA 3050B**	Analysis Date: **6/29/2023**	SeqNo: **5265844**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.50									

Sample ID: **LCS-100516**	SampType: **LCS**	TestCode: **6020_S_PPM**	Units: **mg/Kg**	Prep Date: **6/28/2023**	RunNo: **173557**
Client ID: **LCSS**	Batch ID: **100516**	TestNo: **EPA 6020**	**EPA 3050B**	Analysis Date: **6/29/2023**	SeqNo: **5265845**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	5.002	0.50	5.000	0	100	85	115				

Sample ID: **N057413-001A-MS**	SampType: **MS**	TestCode: **6020_S_PPM**	Units: **mg/Kg**	Prep Date: **6/28/2023**	RunNo: **173557**
Client ID: **ZZZZZZ**	Batch ID: **100516**	TestNo: **EPA 6020**	**EPA 3050B**	Analysis Date: **6/29/2023**	SeqNo: **5265850**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	8.486	0.50	4.998	4.091	87.9	75	125				

Sample ID: **N057413-001A-MSD**	SampType: **MSD**	TestCode: **6020_S_PPM**	Units: **mg/Kg**	Prep Date: **6/28/2023**	RunNo: **173557**
Client ID: **ZZZZZZ**	Batch ID: **100516**	TestNo: **EPA 6020**	**EPA 3050B**	Analysis Date: **6/29/2023**	SeqNo: **5265851**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	9.146	0.50	5.003	4.091	101	75	125	8.486	7.49	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

ANALYTICAL QC SUMMARY REPORT

TestCode: CA_6010_ST

Sample ID: **LCS-100588** SampType: **LCS** TestCode: **CA_6010_ST** Units: **mg/L** Prep Date: **7/2/2023** RunNo: **173656**
Client ID: **LCSS** Batch ID: **100588** TestNo: **WET/ EPA 60 EPA 3010A** Analysis Date: **7/3/2023** SeqNo: **5271216**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.501	0.050	0.5000	0	100	85	115				

Sample ID: **MB-100588** SampType: **MBLK** TestCode: **CA_6010_ST** Units: **mg/L** Prep Date: **7/2/2023** RunNo: **173656**
Client ID: **PBS** Batch ID: **100588** TestNo: **WET/ EPA 60 EPA 3010A** Analysis Date: **7/3/2023** SeqNo: **5271217**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.050									

Sample ID: **MB-100541 STLC** SampType: **MBLK** TestCode: **CA_6010_ST** Units: **mg/L** Prep Date: **7/2/2023** RunNo: **173656**
Client ID: **PBS** Batch ID: **100588** TestNo: **WET/ EPA 60 EPA 3010A** Analysis Date: **7/3/2023** SeqNo: **5271218**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: **N057421-021A-DUP** SampType: **DUP** TestCode: **CA_6010_ST** Units: **mg/L** Prep Date: **7/2/2023** RunNo: **173656**
Client ID: **ZZZZZZ** Batch ID: **100588** TestNo: **WET/ EPA 60 EPA 3010A** Analysis Date: **7/3/2023** SeqNo: **5271222**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.951	0.25						1.948	0.154	20	

Sample ID: **N057421-021A-MS** SampType: **MS** TestCode: **CA_6010_ST** Units: **mg/L** Prep Date: **7/2/2023** RunNo: **173656**
Client ID: **ZZZZZZ** Batch ID: **100588** TestNo: **WET/ EPA 60 EPA 3010A** Analysis Date: **7/3/2023** SeqNo: **5271225**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.553	0.25	0.5000	1.948	121	75	125				

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: American Environmental Testing Laboratory, Inc.
Work Order: N057413
Project: BEF0098.01

ANALYTICAL QC SUMMARY REPORT

TestCode: CA_6010_ST

Sample ID: **N057421-021A-MSD** SampType: **MSD** TestCode: **CA_6010_ST** Units: **mg/L** Prep Date: **7/2/2023** RunNo: **173656**
Client ID: **ZZZZZZ** Batch ID: **100588** TestNo: **WET/ EPA 60 EPA 3010A** Analysis Date: **7/3/2023** SeqNo: **5271226**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.497	0.25	0.5000	1.948	110	75	125	2.553	2.25	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: American Environmental Testing Laboratory, Inc.
Work Order: N057413
Project: BEF0098.01

ANALYTICAL QC SUMMARY REPORT

TestCode: CA_6010_ST

Sample ID: LCS-100591	SampType: LCS	TestCode: CA_6010_ST	Units: mg/L	Prep Date: 7/2/2023	RunNo: 173634
Client ID: LCSS	Batch ID: 100591	TestNo: WET/ EPA 60	EPA 3010A	Analysis Date: 7/2/2023	SeqNo: 5270127

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.485	0.050	0.5000	0	97.0	85	115				

Sample ID: MB-100591	SampType: MBLK	TestCode: CA_6010_ST	Units: mg/L	Prep Date: 7/2/2023	RunNo: 173634
Client ID: PBS	Batch ID: 100591	TestNo: WET/ EPA 60	EPA 3010A	Analysis Date: 7/2/2023	SeqNo: 5270128

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.050									

Sample ID: MB-100545 STLC	SampType: MBLK	TestCode: CA_6010_ST	Units: mg/L	Prep Date: 7/2/2023	RunNo: 173634
Client ID: PBS	Batch ID: 100591	TestNo: WET/ EPA 60	EPA 3010A	Analysis Date: 7/2/2023	SeqNo: 5270129

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.032	0.25									

Sample ID: N057422-001B-MS	SampType: MS	TestCode: CA_6010_ST	Units: mg/L	Prep Date: 7/2/2023	RunNo: 173634
Client ID: ZZZZZZ	Batch ID: 100591	TestNo: WET/ EPA 60	EPA 3010A	Analysis Date: 7/2/2023	SeqNo: 5270135

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.614	0.25	0.5000	0.1004	103	75	125				

Sample ID: N057422-001B-MSD	SampType: MSD	TestCode: CA_6010_ST	Units: mg/L	Prep Date: 7/2/2023	RunNo: 173634
Client ID: ZZZZZZ	Batch ID: 100591	TestNo: WET/ EPA 60	EPA 3010A	Analysis Date: 7/2/2023	SeqNo: 5270136

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.612	0.25	0.5000	0.1004	102	75	125	0.6139	0.326	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike/Surrogate outside of limits due to matrix interference
- DO Surrogate Diluted Out

Calculations are based on raw values

CLIENT: American Environmental Testing Laboratory, Inc.
Work Order: N057413
Project: BEF0098.01

ANALYTICAL QC SUMMARY REPORT

TestCode: CA_6010_ST

Sample ID: **MB-100515 STLC**	SampType: **MBLK**	TestCode: **CA_6010_ST**	Units: **mg/L**	Prep Date: **7/2/2023**	RunNo: **173634**
Client ID: **PBS**	Batch ID: **100591**	TestNo: **WET/ EPA 60 EPA 3010A**		Analysis Date: **7/2/2023**	SeqNo: **5270143**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.029	0.25									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

ANALYTICAL QC SUMMARY REPORT

TestCode: CA_6010_TC

Sample ID: **LCS-100543**	SampType: **LCS**	TestCode: **CA_6010_TC**	Units: **mg/L**	Prep Date: **6/29/2023**	RunNo: **173635**
Client ID: **LCSS**	Batch ID: **100543**	TestNo: **EPA 1311/ 60 EPA 3010A**		Analysis Date: **7/2/2023**	SeqNo: **5270198**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.509	0.050	0.5000	0	102	85	115				

Sample ID: **MB-100543**	SampType: **MBLK**	TestCode: **CA_6010_TC**	Units: **mg/L**	Prep Date: **6/29/2023**	RunNo: **173635**
Client ID: **PBS**	Batch ID: **100543**	TestNo: **EPA 1311/ 60 EPA 3010A**		Analysis Date: **7/2/2023**	SeqNo: **5270199**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.050									

Sample ID: **MB-100514 TCLP**	SampType: **MBLK**	TestCode: **CA_6010_TC**	Units: **mg/L**	Prep Date: **6/29/2023**	RunNo: **173635**
Client ID: **PBS**	Batch ID: **100543**	TestNo: **EPA 1311/ 60 EPA 3010A**		Analysis Date: **7/2/2023**	SeqNo: **5270200**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.050									

Sample ID: **N057393-001A-MS**	SampType: **MS**	TestCode: **CA_6010_TC**	Units: **mg/L**	Prep Date: **6/29/2023**	RunNo: **173635**
Client ID: **ZZZZZZ**	Batch ID: **100543**	TestNo: **EPA 1311/ 60 EPA 3010A**		Analysis Date: **7/2/2023**	SeqNo: **5270204**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.117	0.050	0.5000	1.183	187	75	125				S

Sample ID: **N057393-001A-MSD**	SampType: **MSD**	TestCode: **CA_6010_TC**	Units: **mg/L**	Prep Date: **6/29/2023**	RunNo: **173635**
Client ID: **ZZZZZZ**	Batch ID: **100543**	TestNo: **EPA 1311/ 60 EPA 3010A**		Analysis Date: **7/2/2023**	SeqNo: **5270205**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.113	0.050	0.5000	1.183	186	75	125	2.117	0.163	20	S

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike/Surrogate outside of limits due to matrix interference
- DO Surrogate Diluted Out

Calculations are based on raw values

57413

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Telephone (888) 288-AETL • (818) 845-8200 • www.aetlab.com

SUBCONTRACT CHAIN of CUSTODY

Sending Laboratory:

AETL
AETL, LLC. 2840 N. Naomi Street
Burbank, CA 91504
Phone: 818-845-8200

Project Manager: Hailley Coleman
Email: hcoleman@aetlab.com

Subcontracted Laboratory:

ASSET Laboratories
11110 Artesia Blvd.
Cerritos, CA 90703
Phone: (702)307-2659
Fax: (562)219-7435

Work Order: BEF0098-01 PO #SUB-35549

Analysis	Due	Expires	Comments
~~**Sample ID: BEF0098-01**~~ ***Soil Sampled: 06/12/2023 08:15***			5-DAY TAT
~~6020-As (Arsenic, total by ICP/MS)~~	06/19/2023	12/09/2023 08:15	
Containers Supplied:			
Sample ID: BEF0098-02 ***Soil Sampled: 06/12/2023 08:17***			
6020-As (Arsenic, total by ICP/MS)	06/19/2023	12/09/2023 08:17	N057413-001
Containers Supplied:			
Sample ID: BEF0098-04 ***Soil Sampled: 06/12/2023 08:25***			
6020-As (Arsenic, total by ICP/MS)	06/19/2023	12/09/2023 08:25	
Containers Supplied:			-002
~~**Sample ID: BEF0098-07**~~ ***Soil Sampled: 06/12/2023 08:37***			
~~6020-As (Arsenic, total by ICP/MS)~~	06/19/2023	12/09/2023 08:37	
Containers Supplied:			
~~**Sample ID: BEF0098-08**~~ ***Soil Sampled: 06/12/2023 08:39***			
~~6020-As (Arsenic, total by ICP/MS)~~	06/19/2023	12/09/2023 08:39	

Approved by: HAILLEY COLEMAN 6/27/23
AETL Project Manager Date

Released By AETL Sample Control Date Received By Courier Date

Hrag B. 6/27/23 [signature] 6/27/23 1551
Released By Courier Date Received By Subcontract Laboratory Date

Manbel Maribel Ramos 6/27/23 1760 3:51pm Maribel Campbell 6/28/23 8:56am 2.4°C IR#3 6.1°C IR#1 4258718

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SUBCONTRACT CHAIN of CUSTODY
(Continued)

Work Order: BEF0098 (Continued)

Analysis	Due	Expires	Comments
Containers Supplied:			
Sample ID: BEF0098-09 ***Soil Sampled: 06/12/2023 08:41***			
6020-As (Arsenic, total by ICP/MS)	06/19/2023	12/09/2023 08:41	
Containers Supplied:			N057413-003
Sample ID: BEF0098-11 ***Soil Sampled: 06/12/2023 08:49***			
6020-As (Arsenic, total by ICP/MS)	06/19/2023	12/09/2023 08:49	-004
Containers Supplied:			
Sample ID: BEF0098-14 ***Soil Sampled: 06/12/2023 09:01***			
STLC-Extraction (STLC-Extraction)	06/19/2023	06/26/2023 09:01	
~~6020-As (Arsenic, total by ICP/MS)~~	06/19/2023	12/09/2023 09:01	-005
STLC-6010B-As (STLC Arsenic by ICP)	06/19/2023	12/09/2023 09:01	
Containers Supplied:			
Sample ID: BEF0098-15 ***Soil Sampled: 06/12/2023 09:03***			
6020-As (Arsenic, total by ICP/MS)	06/19/2023	12/09/2023 09:03	
Containers Supplied:			-006
Sample ID: BEF0098-17 ***Soil Sampled: 06/12/2023 09:12***			
6020-As (Arsenic, total by ICP/MS)	06/19/2023	12/09/2023 09:12	-007
Containers Supplied:			
~~**Sample ID: BEF0098-20**~~ ***Soil Sampled: 06/12/2023 08:06***			
~~6020-As (Arsenic, total by ICP/MS)~~	06/19/2023	12/09/2023 08:06	

Approved by:
AETL Project Manager _____ Date _____

Released By AETL Sample Control _____ Date _____ Received By Courier _____ Date _____

Hrag B 6/27/23 [signature] 6/27/23 1551
Released By Courier Date Received By Subcontract Laboratory Date

Mabel Maribel Ramos 6/27/23 1700 3:51pm Manuel de Campo Cruz 6/28/23 8:56 am 2.4°C 1 R#3 6258718
6.1°C 1R#1

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SUBCONTRACT CHAIN of CUSTODY
(Continued)

Work Order: BEF0098 (Continued)

Analysis	Due	Expires	Comments
Containers Supplied:			
Sample ID: BEF0098-21 ***Soil Sampled: 06/12/2023 08:08***			
6020-As (Arsenic, total by ICP/MS)	06/19/2023	12/09/2023 08:08	N057413-008
Containers Supplied:			
~~**Sample ID: BEF0098-23**~~ ***Soil Sampled: 06/12/2023 10:05***			
~~6020-As (Arsenic, total by ICP/MS)~~	06/19/2023	12/09/2023 10:05	
Containers Supplied:			
Sample ID: BEF0098-24 ***Soil Sampled: 06/12/2023 10:07***			
6020-As (Arsenic, total by ICP/MS)	06/19/2023	12/09/2023 10:07	-009
Containers Supplied:			
~~**Sample ID: BEF0098-26**~~ ***Soil Sampled: 06/12/2023 10:16***			
~~6020-As (Arsenic, total by ICP/MS)~~	06/19/2023	12/09/2023 10:16	
Containers Supplied:			
Sample ID: BEF0098-27 ***Soil Sampled: 06/12/2023 10:18***			
6020-As (Arsenic, total by ICP/MS)	06/19/2023	12/09/2023 10:18	-010
Containers Supplied:			
Sample ID: BEF0098-29 ***Soil Sampled: 06/12/2023 10:25***			
6020-As (Arsenic, total by ICP/MS)	06/19/2023	12/09/2023 10:25	-011

Approved by:
AETL Project Manager — Date

Released By AETL Sample Control — Date — Received By Courier — Date

Hrag B. — 6/27/23 1551 — [signature] — 6/27/23 1551

Released By Courier — Date — Received By Subcontract Laboratory — Date

Maribel Maribel Ramos 6/27/23 1700 — Maribel Carter 6/28/23 8:56 am 2 4°C IR#3 GLS 8718 Temp 6.1°C IR#1

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SUBCONTRACT CHAIN of CUSTODY
(Continued)

Work Order: BEF0098 (Continued)

Analysis	Due	Expires	Comments
Containers Supplied:			
Sample ID: BEF0098-32 ***Soil*** ***Sampled: 06/12/2023 10:39***			
STLC-Extraction (STLC-Extraction)	06/19/2023	06/26/2023 10:39	
STLC-6010B-Pb (STLC Lead by ICP)	06/19/2023	09/20/2023 10:39	
TCLP-Extraction (TCLP Extraction)	06/19/2023	09/20/2023 10:39	N057413-012
~~6020-As (Arsenic, total by ICP/MS)~~	06/19/2023	12/09/2023 10:39	
TCLP-6010B-Pb (TCLP Lead by ICP)	06/19/2023	12/09/2023 10:39	
Containers Supplied:			
~~**Sample ID: BEF0098-33**~~ ***Soil*** ***Sampled: 06/12/2023 10:41***			
~~6020-As (Arsenic, total by ICP/MS)~~	06/19/2023	12/09/2023 10:41	
Containers Supplied:			
Sample ID: BEF0098-34 ***Soil*** ***Sampled: 06/12/2023 10:43***			
6020-As (Arsenic, total by ICP/MS)	06/19/2023	12/09/2023 10:43	-013
Containers Supplied:			
Sample ID: BEF0098-36 ***Soil*** ***Sampled: 06/12/2023 10:56***			
6020-As (Arsenic, total by ICP/MS)	06/19/2023	12/09/2023 10:56	
Containers Supplied:			-014
Sample ID: BEF0098-39 ***Soil*** ***Sampled: 06/12/2023 11:24***			
STLC-Extraction (STLC-Extraction)	06/19/2023	06/26/2023 11:24	
STLC-6010B-Pb (STLC Lead by ICP)	06/19/2023	09/20/2023 11:24	
TCLP-Extraction (TCLP Extraction)	06/19/2023	09/20/2023 11:24	-015
TCLP-6010B-Pb (TCLP Lead by ICP)	06/19/2023	12/09/2023 11:24	

Approved by:

AETL Project Manager _____ Date _____

Released By AETL Sample Control _____ Date _____ Received By Courier _____ Date _____

Hrag B. 6/27/23 1551 [signature] 6/27/23 1541

Released By Courier Date Received By Subcontract Laboratory Date

Mabel Maribel Ramos 6/27/23 1700 [signature] 6/28/23 8:56 am 6.4°C IR#3 IR#1 6.1°C 6LS8718

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SUBCONTRACT CHAIN of CUSTODY
(Continued)

Work Order: BEF0098 (Continued)

Analysis	Due	Expires	Comments
Containers Supplied:			
Sample ID: BEF0098-45 ***Soil Sampled: 06/12/2023 11:46***			
STLC-Extraction (STLC-Extraction)	06/19/2023	06/26/2023 11:46	
STLC-6010B-Pb (STLC Lead by ICP)	06/19/2023	09/20/2023 11:46	
TCLP-Extraction (TCLP Extraction)	06/19/2023	09/20/2023 11:46	
TCLP-6010B-Pb (TCLP Lead by ICP)	06/19/2023	12/09/2023 11:46	N057413-016
Containers Supplied:			
Sample ID: BEF0098-46 ***Soil Sampled: 06/12/2023 11:47***			
STLC-Extraction (STLC-Extraction)	06/19/2023	06/26/2023 11:47	
TCLP-Extraction (TCLP Extraction)	06/19/2023	09/20/2023 11:47	
STLC-6010B-Pb (STLC Lead by ICP)	06/19/2023	09/20/2023 11:47	-017
TCLP-6010B-Pb (TCLP Lead by ICP)	06/19/2023	12/09/2023 11:47	
Containers Supplied:			
~~**Sample ID: BEF0098-52**~~ ***Soil Sampled: 06/12/2023 12:53***			
~~6020-As (Arsenic, total by ICP/MS)~~	06/19/2023	12/09/2023 12:53	
Containers Supplied:			
~~**Sample ID: BEF0098-55**~~ ***Soil Sampled: 06/12/2023 13:05***			
~~6020-As (Arsenic, total by ICP/MS)~~	06/19/2023	12/09/2023 13:05	
Containers Supplied:			
Sample ID: BEF0098-56 ***Soil Sampled: 06/12/2023 13:08***			
6020-As (Arsenic, total by ICP/MS)	06/19/2023	12/09/2023 13:08	-018

Approved by:

AETL Project Manager _____ Date _____

Released By AETL Sample Control _____ Date _____ Received By Courier _____ Date _____

Hrag B. 6/27/23 [signature] ASCPO 6/28/23

Released By Courier _____ Date _____ Received By Subcontract Laboratory _____ Date _____

Mabel Maribel Ramos 6/27/23 1700 Marc de la Cruz [signature] 6/28/23 8:56 am 2.4°C IR#3 1551

IR#1 6.1°C 6L587 18

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SUBCONTRACT CHAIN of CUSTODY
(Continued)

Work Order: BEF0098 (Continued)

Analysis	Due	Expires	Comments
Containers Supplied:			
Sample ID: BEF0098-58 ***Soil Sampled: 06/12/2023 13:17***			
6020-As (Arsenic, total by ICP/MS)	06/19/2023	12/09/2023 13:17	
Containers Supplied:			N057413-019
~~**Sample ID: BEF0098-61**~~ ***Soil Sampled: 06/12/2023 13:29***			
~~6020-As (Arsenic, total by ICP/MS)~~	06/19/2023	12/09/2023 13:29	
Containers Supplied:			
Sample ID: BEF0098-62 ***Soil Sampled: 06/12/2023 13:31***			
6020-As (Arsenic, total by ICP/MS)	06/19/2023	12/09/2023 13:31	-020
Containers Supplied:			
~~**Sample ID: BEF0098-64**~~ ***Soil Sampled: 06/12/2023 13:52***			
~~6020-As (Arsenic, total by ICP/MS)~~	06/19/2023	12/09/2023 13:52	
Containers Supplied:			
Sample ID: BEF0098-65 ***Soil Sampled: 06/12/2023 13:54***			
6020-As (Arsenic, total by ICP/MS)	06/19/2023	12/09/2023 13:54	-021
Containers Supplied:			
~~**Sample ID: BEF0098-67**~~ ***Soil Sampled: 06/12/2023 14:03***			
~~6020-As (Arsenic, total by ICP/MS)~~	06/19/2023	12/09/2023 14:03	

Approved by:

AETL Project Manager _____ Date _____

Released By AETL Sample Control _____ Date _____ Received By Courier _____ Date _____

Hrag B. 6/27/23 [signature] 6/27/23

Released By Courier _____ Date _____ Received By Subcontract Laboratory _____ Date _____

Maribel Ramos 6/27/23 1700 Marc de la Cruz 6/28/23 8:56am 2.4°C 1R#3 6458718

1R#1 6.1°C

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SUBCONTRACT CHAIN of CUSTODY
(Continued)

Work Order: BEF0098 (Continued)

Analysis	Due	Expires	Comments
Containers Supplied:			
~~**Sample ID: BEF0098-68**~~ ***Soil*** ***Sampled: 06/12/2023 14:05***			
~~6020-As (Arsenic, total by ICP/MS)~~	06/19/2023	12/09/2023 14:05	
Containers Supplied:			
~~**Sample ID: BEF0098-74**~~ ***Soil*** ***Sampled: 06/12/2023 14:34***			
~~6020-As (Arsenic, total by ICP/MS)~~	06/19/2023	12/09/2023 14:34	
Containers Supplied:			
Sample ID: BEF0098-75 ***Soil*** ***Sampled: 06/12/2023 14:37***			
6020-As (Arsenic, total by ICP/MS)	06/19/2023	12/09/2023 14:37	
Containers Supplied:			N057413-022
~~**Sample ID: BEF0098-77**~~ ***Soil*** ***Sampled: 06/12/2023 14:24***			
~~6020-As (Arsenic, total by ICP/MS)~~	06/19/2023	12/09/2023 14:24	
Containers Supplied:			

Approved by: _____ _____
AETL Project Manager — Date

Released By AETL Sample Control	Date	Received By Courier	Date
Hrag S.	6/27/23		6/28/23
Released By Courier	Date	Received By Subcontract Laboratory	Date

Michael Maribel Ramos 6/27/23 1700

Maria de la Cruz 6/28/23 8:56 am
IR#1 6.1°C 2.4°C IR#3
6LS8718

ASSET Laboratories

Please review the checklist below. Any NO signifies non-compliance. Any non-compliance will be noted and must be understood as having an impact on the quality of the data. All tests will be performed as requested regardless of any compliance issues.

If you have any questions or further instruction, please contact our Project Coordinator at (702) 307-2659.

Cooler Received/Opened On:	6/27/2023	Workorder:	N057413
Rep sample Temp (Deg C):	6.1	IR Gun ID:	1
Temp Blank:	☐ Yes ☑ No		
Carrier name:	Walk-In		
Last 4 digits of Tracking No.:	NA	Packing Material Used:	None
Cooling process:	☑ Ice ☐ Ice Pack ☐ Dry Ice ☐ Other ☐ None		

Sample Receipt Checklist

1. Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
2. Custody seals intact, signed, dated on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
3. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
4. Chain of custody present?	Yes ☑	No ☐	
5. Sampler's name present in COC?	Yes ☐	No ☑	
6. Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
7. Chain of custody agrees with sample labels?	Yes ☑	No ☐	
8. Samples in proper container/bottle?	Yes ☑	No ☐	
9. Sample containers intact?	Yes ☑	No ☐	
10. Sufficient sample volume for indicated test?	Yes ☑	No ☐	
11. All samples received within holding time?	Yes ☑	No ☐	
12. Temperature of rep sample or Temp Blank within acceptable limit?	Yes ☐	No ☑	NA ☐
13. Water - VOA vials have zero headspace?	Yes ☐	No ☐	NA ☑
14. Water - pH acceptable upon receipt? Example: pH > 12 for (CN,S); pH<2 for Metals	Yes ☐	No ☐	NA ☑
15. Did the bottle labels indicate correct preservatives used?	Yes ☐	No ☐	NA ☑
16. Were there Non-Conformance issues at login?	Yes ☑	No ☐	NA ☐
Was Client notified?	Yes ☑	No ☐	NA ☐

Comments: See correspondence. Received at Las Vegas Lab on 6/28/23 at 2.4°C, IR#3, GW#8718.

Checklist Completed By: MR 6/28/2023

Reviewed By:



Subject: N057413, N057412, N057411 (BEF0098.01, BEF0243, BED0176.01)
From: Kim San Antonio <kim@assetlaboratories.com>
Date: 6/28/2023, 10:00 AM
To: Hailley Coleman <hcoleman@aetlab.com>
CC: "maribel@assetlaboratories.com" <maribel@assetlaboratories.com>, "tmalit@assetlaboratories.com" <tmalit@assetlaboratories.com>

Hailey,

The samples were received out of temperature criteria. We will continue with analyses unless otherwise instructed.

Thank you.

Kim

--
This email has been checked for viruses by Avast antivirus software.
www.avast.com

ASSET Laboratories

WORK ORDER Summary

28-Jun-23

WorkOrder: N057413

Client ID: AETL01

Project: BEF0098.01 **QC Level:** RTNE **Date Received:** 6/27/2023 3:51 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N057413-001A	BEF0098-02	6/12/2023 8:17:00 AM	7/5/2023	Soil	EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			7/5/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057413-002A	BEF0098-04	6/12/2023 8:25:00 AM	7/5/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			7/5/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057413-003A	BEF0098-09	6/12/2023 8:41:00 AM	7/5/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			7/5/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057413-004A	BEF0098-11	6/12/2023 8:49:00 AM	7/5/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			7/5/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057413-005A	BEF0098-14	6/12/2023 9:01:00 AM	7/5/2023		EPA 3010A	AQPrep for Total Metals: ICP for STLC Extracts	☐	☐	☐	WS-CA
			7/5/2023		WET/ EPA 6010B	ICP METALS by STLC	☐	☐	☐	WS-CA
			7/5/2023		WET	STLC Sample Prep Metals	☐	☐	☐	WS-CA
N057413-006A	BEF0098-15	6/12/2023 9:03:00 AM	7/5/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			7/5/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057413-007A	BEF0098-17	6/12/2023 9:12:00 AM	7/5/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			7/5/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057413-008A	BEF0098-21	6/12/2023 8:08:00 AM	7/5/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			7/5/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057413-009A	BEF0098-24	6/12/2023 10:07:00 AM	7/5/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			7/5/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057413-010A	BEF0098-27	6/12/2023 10:18:00 AM	7/5/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			7/5/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057413-011A	BEF0098-29	6/12/2023 10:25:00 AM	7/5/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS

WORK ORDER Summary

28-Jun-23

WorkOrder: N057413

Client ID: AETL01

Project: BEF0098.01 **QC Level:** RTNE **Date Received:** 6/27/2023 3:51 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N057413-011A	BEF0098-29	6/12/2023 10:25:00 AM	7/5/2023	Soil	EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057413-012A	BEF0098-32	6/12/2023 10:39:00 AM	7/5/2023		EPA 1311	TCLP Sample Prep Metals	☐	☐	☐	WS-CA
			7/5/2023		EPA 3010A	AQPrep for Total Metals: ICP for STLC Extracts	☐	☐	☐	WS-CA
			7/5/2023		EPA 3010A	AQPrep for Total Metals	☐	☐	☐	WS-CA
			7/5/2023		WET/ EPA 6010B	ICP METALS by STLC	☐	☐	☐	WS-CA
			7/5/2023		EPA 1311/ 6010B	ICP METALS by TCLP Extraction	☐	☐	☐	WS-CA
			7/5/2023		WET	STLC Sample Prep Metals	☐	☐	☐	WS-CA
N057413-013A	BEF0098-34	6/12/2023 10:43:00 AM	7/5/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			7/5/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057413-014A	BEF0098-36	6/12/2023 10:56:00 AM	7/5/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			7/5/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057413-015A	BEF0098-39	6/12/2023 11:24:00 AM	7/5/2023		EPA 1311	TCLP Sample Prep Metals	☐	☐	☐	WS-CA
			7/5/2023		EPA 3010A	AQPrep for Total Metals: ICP for STLC Extracts	☐	☐	☐	WS-CA
			7/5/2023		EPA 3010A	AQPrep for Total Metals	☐	☐	☐	WS-CA
			7/5/2023		WET/ EPA 6010B	ICP METALS by STLC	☐	☐	☐	WS-CA
			7/5/2023		EPA 1311/ 6010B	ICP METALS by TCLP Extraction	☐	☐	☐	WS-CA
			7/5/2023		WET	STLC Sample Prep Metals	☐	☐	☐	WS-CA
N057413-016A	BEF0098-45	6/12/2023 11:46:00 AM	7/5/2023		EPA 1311	TCLP Sample Prep Metals	☐	☐	☐	WS-CA
			7/5/2023		EPA 3010A	AQPrep for Total Metals: ICP for STLC Extracts	☐	☐	☐	WS-CA
			7/5/2023		EPA 3010A	AQPrep for Total Metals	☐	☐	☐	WS-CA
			7/5/2023		WET/ EPA 6010B	ICP METALS by STLC	☐	☐	☐	WS-CA

ASSET Laboratories

WORK ORDER Summary

28-Jun-23

WorkOrder: N057413

Client ID: AETL01

Project: BEF0098.01 **QC Level:** RTNE **Date Received:** 6/27/2023 3:51 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N057413-016A	BEF0098-45	6/12/2023 11:46:00 AM	7/5/2023	Soil	EPA 1311/ 6010B	ICP METALS by TCLP Extraction	☐	☐	☐	WS-CA
			7/5/2023		WET	STLC Sample Prep Metals	☐	☐	☐	WS-CA
N057413-017A	BEF0098-46	6/12/2023 11:47:00 AM	7/5/2023		EPA 1311	TCLP Sample Prep Metals	☐	☐	☐	WS-CA
			7/5/2023		EPA 3010A	AQPrep for Total Metals: ICP for STLC Extracts	☐	☐	☐	WS-CA
			7/5/2023		EPA 3010A	AQPrep for Total Metals	☐	☐	☐	WS-CA
			7/5/2023		WET/ EPA 6010B	ICP METALS by STLC	☐	☐	☐	WS-CA
			7/5/2023		EPA 1311/ 6010B	ICP METALS by TCLP Extraction	☐	☐	☐	WS-CA
			7/5/2023		WET	STLC Sample Prep Metals	☐	☐	☐	WS-CA
N057413-018A	BEF0098-56	6/12/2023 1:08:00 PM	7/5/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			7/5/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057413-019A	BEF0098-58	6/12/2023 1:17:00 PM	7/5/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			7/5/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057413-020A	BEF0098-62	6/12/2023 1:31:00 PM	7/5/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			7/5/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057413-021A	BEF0098-65	6/12/2023 1:54:00 PM	7/5/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			7/5/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057413-022A	BEF0098-75	6/12/2023 2:37:00 PM	7/5/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			7/5/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057413-023A	FOLDER	7/5/2023	7/5/2023		Folder	Folder	☐	☐	☐	LAB
			7/5/2023		Folder	Folder	☐	☐	☐	LAB

GLS.

800-322-5555
www.gls-us.com

Ship From
ASSET LABORATORIES
THAD MALIT
11110 ARTESIA BLVD. SUITE B
CERRITOS, CA 90703

Ship To
ASSET LABORATORIES
MARLON CARTIN
3151 W. POST RD.,
LAS VEGAS, NV 89118

COD: $0.00
Weight: 0 lb(s)
Reference:

Delivery Instructions:
HOLD FOR PICKUP
Signature Type: STANDARD

Tracking #: 559668718

PDS

2.4°C
6/28/23
8:57
am

LAS VEGAS

D000060

88923503

LVS NV891-068

Print Date: 6/27/2023 4:57 PM

Print Label ☐ Print All **Finish** 1 of 1

LABEL INSTRUCTIONS:

Do not copy or reprint this label for additional shipments - each package must have a unique barcode.
Step 1: Use the "Print Label" button on this page to print the shipping label on a laser or inkjet printer.
Step 2: Fold this page in half.
Step 3: Securely attach this label to your package and do not cover the barcode.

TERMS AND CONDITIONS:

By giving us your shipment to deliver, you agree to all of the General Logistics Systems US, Inc. (GLS) service terms & conditions including, but not limited to; limits of liability, declared value conditions, and claim procedures which are available on our website at www.gls-us.com.

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2840 North Naomi Street, Burbank, CA 91504 • ELAP# 1541 • LACSD# 10181
Telephone (888) 288-AETL • (818) 845-8200 • www.aetlab.com
A KYZER LABS COMPANY

July 17, 2023

AETL Job No: BEF0098.02
Received Date: 06/12/2023
Project Number: [none]

Parsons
100 West Walnut Street
Pasadena, CA 91124
Telephone: (626) 440-6200

Attention: Justin King

Project Name: Canoga Park High School

Site: LAUSD Canoga
6850 CA-27
Canoga Park, CA 91303

Enclosed please find the results of analyses for samples which were analyzed as specified on the attached chain of custody. If you have any questions concerning this report, please do not hesitate to call.

Checked By: Hailley Coleman
Hailley Coleman
Project Manager

Approved By: Joe Sevrean
Joe Sevrean
Laboratory Director

Table of Contents

Client Project Name: Canoga Park High School Project Number: [none]
Work Order Number: BEF0098

1 Cover Letter 1
2 Sample Condition on Receipt 3
3 Chain of Custody 4
4 Cooler Receipt Forms 10
5 Case Narrative 11
6 Samples Received 12
7 Positive Hits Summary 16
8 Analytical Results 17
9 Quality Control Results 18
10 Qualifiers and Definitions 20
11 Sub Contracted Analysis 22

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A KYZER LABS COMPANY

Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEF0098 [none] Justin King Canoga Park High School	Site: Reported:	LAUSD Canoga 6850 CA-27 Canoga Park, CA 91303 07/17/2023 12:27

Sample Condition on Receipt

Cooler ID: Default Cooler **Temperature: 5.7 °C**

Are the COCs Correct	Y		
Labels Legible	Y	Containers In Good Condition	Y
COC/Labels Agree	Y	Samples Preserved Properly	Y
Sufficient Sample Volume	Y	Sufficient Holding Time for all Tests	Y
Sample Labels intact	Y	Received on Ice	Y

Cooler ID: New Cooler **Temperature: 5.7 °C**

Are the COCs Correct	Y		
Labels Legible	Y	Containers In Good Condition	Y
COC/Labels Agree	Y	Samples Preserved Properly	Y
Sufficient Sample Volume	Y	Sufficient Holding Time for all Tests	Y
Sample Labels intact	Y	Received on Ice	Y

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

American Environmental Testing Laboratory Inc.
2834 & 2908 North Naomi Street, Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

CHAIN OF CUSTODY RECORD

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut Street Pasadena, CA 91124
PHONE FAX: (310) 809-5793
PROJECT NAME: Canoga Park High School
PROJECT #:
SITE NAME AND ADDRESS: LAUSD Canoga 6850 CA-27, Canoga Park, CA 91303
PO #:

AETL JOB No. BEF0078

ANALYSIS REQUESTED

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	STLL-Pb	TLLP-Pb	STLL-As	TLLP-As					TEST INSTRUCTIONS & COMMENTS
1	SB-26-W5-D0.5	BEF0078-01	6/12/2023	0815	Soil	1x9oz	none		X									
2	SB-26-W5-D2.0	-02		0817					X									Hold
3	SB-26-W5-D3.0	-03		0819														Hold
4	SB-26-W10-D0.5	-04		0825					X	E.D.								Hold
5	SB-26-W10-D2.0	-05		0827														Hold
6	SB-26-W10-D3.0	-06		0829														Hold
7	SB-26-S5-D0.5	-07		0837					X									
8	SB-26-S5-D0.5-DUP	-08		~~0841~~ 0839					X									
9	SB-26-S5-D2.0	-09		~~0843~~ 0841					X									Hold
10	SB-26-S5-D3.0	-10		~~0843~~ 0843														Hold
11	SB-26-S10-D0.5	-11		0849					X	E.D.								Hold
12	SB-26-S10-D2.0	-12		0851														Hold
13	SB-26-S10-D3.0	-13		0853														Hold
14	SB-26-E5-D0.5	-14		0901					X			X						
15	SB-26-E5-D2.0	-15		0903					X									Hold

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y / N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: [signature]	Signature:	Signature:
Printed Name: Edward Debys	Printed Name:	Printed Name:
Date: 6/12/2023 Time: 1600	Date: Time:	Date: Time:

TURN AROUND TIME	DATA DELIVERABLE REQUIRED
☑ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS	☐ HARD COPY ☐ PDF ☐ GEOTRACKER (GLOBAL ID) ☐ OTHER (PLEASE SPECIFY)

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: AETL 3.
Signature:	Signature:	Signature: [signature]
Printed Name:	Printed Name:	Printed Name: Gretta Giraldo
Date: Time:	Date: Time:	Date: 6/12/23 Time: 16:00

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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CHAIN OF CUSTODY RECORD

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut Street Pasadena, CA 91124
PHONE FAX: (310) 809-5793
PROJECT NAME: LAUSD Canoga
PROJECT #:
SITE NAME AND ADDRESS: Canoga Park Highschool 6850 CA-27, Canoga Park, CA 91303
PO #:

AETL JOB No. BEF0098

ANALYSIS REQUESTED

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	TEST INSTRUCTIONS & COMMENTS
1	SB-26-E5-D3.0	BEF0098-16	6/12/2023	0905	Soil	1 x 9oz	none			Hold
2	SB-26-E10-D0.5	-17		0912					X	Hold
3	SB-26-E10-D2.0	-18		0914						Hold
4	SB-26-E10-D3.0	-19		0916						Hold
5	SB-26-NW5-D0.5	-20		0806					X	
6	SB-26-NW5-D2.0	-21		0808					X	Hold
7	SB-26-NW5-D3.0	-22		0810						Hold
8	SB-1-NE5-D0.5	-23		1005				X	X	
9	SB-1-NE5-D2.0	-24		1007					X	Hold
10	SB-1-NE5-D3.0	-25		1010						Hold
11	SB-1-NW5-D0.5	-26		1016				X	X	
12	SB-1-NW5-D2.0	-27		1018					X	Hold
13	SB-1-NW5-D3.0	-28		1020						Hold
14	SB-1-NW10-D0.5	-29		1025					X	Hold
15	SB-1-NW10-D2.0	-30		1027						Hold

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y / N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: G. Salas	Signature:	Signature:
Printed Name: Edward Dobson	Printed Name:	Printed Name:
Date: 6/12/2023 Time: 1600	Date: Time:	Date: Time:
RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: AETL 3.
Signature:	Signature:	Signature:
Printed Name:	Printed Name:	Printed Name: Carlos Pineyro Gonzalez
Date: Time	Date: Time	Date: 6/12/23 Time: 16:00

TURN AROUND TIME: ☑ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED: ☐ HARD COPY ☐ PDF ☐ GEOTRACKER (GLOBAL ID) ☐ OTHER (PLEASE SPECIFY)

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AMERICAN ENVIRONMENTAL TESTING LABORATORY
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TEL (888) 288-AETL (818) 845-8200 FAX (818) 845-8840 www.aetlab.com

CHAIN OF CUSTODY RECORD

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut Street Pasadena, CA 91124
PHONE: (310) 809-5793
FAX:
PROJECT NAME: LAUSD Canoga
PROJECT #:
SITE NAME AND ADDRESS: Canoga Park Highschool 6850 CA-27 Canoga Park, CA 91303
PO #:
AETL JOB No. BEF0098

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	STLC - Pb	TCLP - Pb	TEST INSTRUCTIONS & COMMENTS
1	SB-1-NW10-D30	BEF0098-31	6/12/23	1029	Soil	1x402	none					Hold
2	SB-1-SW5-D0.5	32		1039				X	X	X	X	
3	SB-1-SW5-D0.5-DUP	33		1041				X	X			
4	SB-1-SW5-D20	34		1043				X	X			Hold
5	SB-1-SW5-D30	35		1045								Hold
6	SB-1-SW10-D0.5	36		1056				X	X			Hold
7	SB-1-SW10-D20	37		1058								Hold
8	SB-1-SW10-D30	38		1100								Hold
9	~~SB-3-NW5-D0.5~~											
10	~~SB-3-NW5-D0.5-DUP~~											
11	~~SB3-NW5-20~~											
12	~~SB3-NW5-30~~											
13	~~SB3-NW10-0.5~~											
14	~~SB-3-NW10-20~~											
15	~~SB-3-NW10-30~~											

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y / N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

TURN AROUND TIME: ☑ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED: ☐ HARD COPY ☐ PDF ☐ GEOTRACKER (GLOBAL ID) _____ ☐ OTHER (PLEASE SPECIFY) _____

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:	Signature:	Signature:
Printed Name: Edward Dabss	Printed Name:	Printed Name:
Date: 6/12/2023 Time: 1600	Date: Time:	Date: Time:
RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: 3.
Signature:	Signature:	Signature:
Printed Name:	Printed Name:	Printed Name:
Date: Time	Date Time:	Date: 6/13/23 Time: 1100

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

AMERICAN ENVIRONMENTAL TESTING LABORATORY
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CHAIN OF CUSTODY RECORD

111392

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut Street Pasadena, CA 91124
PHONE FAX: (310) 809-5743
PROJECT NAME: LAUSD Canoga
PROJECT #:
SITE NAME AND ADDRESS: Canoga Park Highschool 6850 CA27 Canoga Park, CA 91303
PO #:

AETL JOB No. BEF0098

ANALYSIS REQUESTED

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	STLC-Pb	TCLP-Pb							TEST INSTRUCTIONS & COMMENTS
1	SB-3-SW5-D0.5	BEF0098-39	6/12/2023	1124	Soil	1x9oz	none	X		X	X							
2	SB-3-SW5-D2.0	40		1126				X										Hold
3	SB-3-SW5-D3.0	41		1128														Hold
4	SB-3-SW10-D0.5	42		1136				X										Hold
5	SB-3-SW10-D2.0	43		1138														Hold
6	SB-3-SW10-D3.0	44		1140														Hold
7	SB-3-SE5-D0.5	45		1146				X		X	X							
8	SB-3-SE5-D0.5-Dup	46		1147				X		X	X							
9	SB-3-SE5-D2.0	47		1148				X										Hold
10	SB-3-SE5-D3.0	48		1150														Hold
11	SB-3-SE10-D0.5	49		1200				X										Hold
12	SB-3-SE10-D2.0	50		1202														Hold
13	SB-3-SE10-D3.0	51		1204														Hold
14	SB-44-W5-D0.5	52		1253					X									
15	SB-44-W5-D2.0	53		1255														Hold

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y / N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

TURN AROUND TIME: ☑ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED: ☐ HARD COPY ☐ PDF ☐ GEOTRACKER (GLOBAL ID) ____ ☐ OTHER (PLEASE SPECIFY) ____

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: [signature]	Signature:	Signature:
Printed Name: Edward Dabis	Printed Name:	Printed Name:
Date: 6/12/2023 Time: 1600	Date: Time:	Date: Time:
RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: 3.
Signature:	Signature:	Signature: [signature]
Printed Name:	Printed Name:	Printed Name: Preta Diragars
Date: Time:	Date: Time:	Date: 6/12/23 Time: 16:00

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

AMERICAN ENVIRONMENTAL TESTING LABORATORY
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CHAIN OF CUSTODY RECORD

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut St. Pasadena, CA 91124
PHONE / FAX: (310) 809-5743
PROJECT NAME: LASD Canoga
PROJECT #:
SITE NAME AND ADDRESS: Canoga Park Highschool 6850 CA-27 Canoga Park, CA 91303
PO #:
AETL JOB No. BEF0076
Page 5 of 6

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	TEST INSTRUCTIONS & COMMENTS
1	SB-44-WS-D3.0	BEF0076-54	6/12/2023	1257	Soil	1x 9oz	none			Hold
2	SB-44-N5-D0.5	55		1305					X	
3	SB-44-N5-D2.0	56		1308					X	Hold
4	SB-44-N5-D3.0	57		1310						Hold
5	SB-44-N10-D0.5	58		1317					X	Hold
6	SB-44-N10-D2.0	59		1319						Hold
7	SB-44-N10-D3.0	60		1321						Hold
8	SB-44-S10-D0.5	61		1329					X	
9	SB-44-S10-D2.0	62		1331					X	Hold
10	SB-44-S10-D3.0	63		1334						Hold
11	SB-5-E5-D0.5	64		1352					X	
12	SB-5-E5-D2.0	65		1354					X	Hold
13	SB-5-E5-D3.0	66		1357						Hold
14	SB-5-NE5-D0.5	67		1403					X	
15	SB-5 NE5-D0.5Dup	68	↓	1405	↓	↓	↓		X	

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y / N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

TURN AROUND TIME: ☑ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED: ☐ HARD COPY ☐ PDF ☐ GEOTRACKER (GLOBAL ID) _____ ☐ OTHER (PLEASE SPECIFY) _____

	RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:	E. Dakes		
Printed Name:	Edward Dakes		
Date / Time:	6/12/2023 1600		

	RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: 3.
Signature:			
Printed Name:			
Date / Time:			6/19/23 16:00

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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2834 NORTH NAOMI ST. BURBANK, CALIFORNIA 91504 DHS # 1541 LACSD# 10181
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CHAIN OF CUSTODY RECORD

AETL JOB No. BF-F0098 | Page 6 of 6

COMPANY: Parsons | PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut Street Pasadena, CA 91124 | PHONE: | FAX: (310) 809-5743
PROJECT NAME: LAUSD Canoga | PROJECT #:
SITE NAME AND ADDRESS: Canoga Park Highschool 6850 CA-27 | PO #:
Canoga Park, CA 91303

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	TEST INSTRUCTIONS & COMMENTS
1	SB-5-NE5-D2.0	BEF0098-69	6/12/2023	1407	Soil	1 x 9oz	none			
2	SB-5-NE5-D3.0	-70		1410						Hold
3	SB-5-NE10-D0.5	-71		1414						Hold
4	SB-5-NE10-D2.0	-72		1416						Hold
5	SB-5-NE10-D3.0	-73		1418						Hold
6	SB-5-NW5-D0.5	-74	1432	1434 EDD				X		
7	SB-5-NW5-D2.0	-75	1437	1426 EDD				X		Hold
8	SB-5-NW5-D3.0	-76	1434	1420 EDD						Hold
9	SB-5-W5-D0.5	-77	1432	1434 EDD				X		
10	SB-5-W5-D2.0	-78	1426	1439 EDD						Hold
11	SB-5-W5-D3.0	-79	1428	1434 EDD						Hold
12										
13										
14										
15										

G. Edwards

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y/ N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

TURN AROUND TIME: ☑ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED: ☐ HARD COPY ☐ PDF ☐ GEOTRACKER (GLOBAL ID) _____ ☐ OTHER (PLEASE SPECIFY) _____

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: G. Edwards	Signature:	Signature:
Printed Name: Edward Dabys	Printed Name:	Printed Name:
Date: 6/12/2023 Time: 1600	Date: Time:	Date: Time:
RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: 3.
Signature:	Signature:	Signature:
Printed Name:	Printed Name:	Printed Name:
Date: Time:	Date: Time:	Date: 6/12/23 Time: 1600

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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COOLER RECEIPT FORM

Client Name: Parsons

Project Name: Canoga Park High School Project No.:

AETL Job Number: BEF0102

Date Received: 06/12/2023 Received by: Greta G

Carrier: ☐ AETL Courier ☑ Client ☐ GSL ☐ FedEx ☐ UPS
☐Others:

Samples were received in: ☑ Cooler (__1_____) ☐ Other (Specify):

Sample Container Temperature: __5.7__ °C IR Gun S/N: 51941911MV

Type of sample containers: ☐ VOA, ☐ Glass bottles, ☑Wide mouth jars, ☐HDPE bottles, ☐ Metal sleeves, ☐ Acetate sleeves, ☐ 5035 Kit: ☐ AETL or ☐ Client, ☐ Tedlar Bags, Summa Canister: ☐ 6L, ☐ 3L, ☐ 1L, Others (Specify): _____

How are samples preserved: ☐ None, ☑ Ice, ☐ Blue Ice, ☐ Dry Ice
☑ None, ☐ HNO_3, ☐ NaOH, ☐ ZnOAc, ☐ HCl, ☐ $Na_2S_2O_3$, ☐ MeOH, ☐ $NaHSO_4$
☐ Other (Specify):

	Yes	No	N/A	Note or Comment
1. Are the COCs Correct?	✔			
2. Are Sample labels legible & indelible ink?	✔			
3. Do samples match the COC?	✔			
4. Are the required analyses clear?	✔			
5. Is there enough samples for required analysis?	✔			
6. Does cooler or samples have custody seal(s)?			✔	
7. Are sample containers in good condition?	✔			
8. Are samples preserved?	✔			
9. Are samples preserved properly for the intended analysis?	✔			
10. Are the VOAs free of headspace? See footnote.			✔	
11. Are the jars free of headspace?			✔	

* = see note below. N/A = Not Applicable

PLEASE NOTE ALL SAMPLES WILL BE DISPOSED OF 30 DAYS AFTER RECEIVING DATE. IF AETL IS INFORMED OTHERWISE, THERE WILL BE A STORAGE CHARGE PER SAMPLE PER MONTH FOR ANY SAMPLE HELD BEYOND 30 DAYS.

◯ Example maximum headspace bubble size; acceptance criteria not to exceed 5-6 mm in diameter.

For headspace bubbles exceeding 6 mm in diameter, sample receiving will tag the VOA and notify the Project Manager. The Project Manager will contact client for Analyze or Resample instructions.

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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEF0098 [none] Justin King Canoga Park High School	Site: Reported:	LAUSD Canoga 6850 CA-27 Canoga Park, CA 91303 07/17/2023 12:27

Case Narrative

The following "Sample Received" Section summarizes the samples received and associated analyses requested as specified on the enclosed chain of custody.

Results as reported by the laboratory apply only to 1) the items tested, 2) as the samples are received, and 3) the accuracy of information provided. Information supplied by the customer that may affect validity of results and may be contained in this report include Project Name/Number, Site Location, Sample Locations, Sampling Dates/Times, Sample ID, Sample Preservation, Sample Matrix, Sample Properties, Field Blanks, Field Duplicates, Field Spikes, and Site Historical Data.

Accreditation applies only to the test methods listed on each scope of accreditation held by the laboratory; certifications held by the laboratory may not apply to results supplied in this report.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

Qualifiers are noted in the report.

The samples were subcontracted to Asset Laboratories for EPA 6020-As, STLC, and TCLP. Please see attached report for results.

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEF0098 [none] Justin King Canoga Park High School	Site: Reported:	LAUSD Canoga 6850 CA-27 Canoga Park, CA 91303 07/17/2023 12:27

Samples Received

AETL received the following samples on 06/12/2023 with the following specifications

Client ID SB-26-W10-D2.0 — **Sample Date** 06/12/2023 8:27

Lab ID BEF0098-05 — **Matrix** Soil — **Quantity of Containers** 1

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Client ID SB-26-S10-D0.5 — **Sample Date** 06/12/2023 8:49

Lab ID BEF0098-11 — **Matrix** Soil — **Quantity of Containers** 2

Method	Analyte	Units	TAT
EPA 6010B-STLC	STLC Arsenic by ICP	mg/L	5

Client ID SB-26-S10-D2.0 — **Sample Date** 06/12/2023 8:51

Lab ID BEF0098-12 — **Matrix** Soil — **Quantity of Containers** 1

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Client ID SB-26-E10-D0.5 — **Sample Date** 06/12/2023 9:12

Lab ID BEF0098-17 — **Matrix** Soil — **Quantity of Containers** 2

Method	Analyte	Units	TAT
EPA 6010B-1311 TCLP	TCLP Arsenic by ICP	mg/L	5
EPA 6010B-STLC	STLC Arsenic by ICP	mg/L	5

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Parsons	AETL Job Number:	BEF0098	Site:	LAUSD Canoga	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	Canoga Park High School	Reported:	07/17/2023 12:27	

Samples Received

(Continued)

AETL received the following samples on 06/12/2023 with the following specifications

Client ID	Sample Date
SB-26-E10-D2.0	06/12/2023 9:14

Lab ID	Matrix	Quantity of Containers
BEF0098-18	Soil	1

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Client ID	Sample Date
SB-1-NW5-D3.0	06/12/2023 10:20

Lab ID	Matrix	Quantity of Containers
BEF0098-28	Soil	1

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Client ID	Sample Date
SB-1-SW5-D0.5-DUP	06/12/2023 10:41

Lab ID	Matrix	Quantity of Containers
BEF0098-33	Soil	2

Method	Analyte	Units	TAT
EPA 6010B-1311 TCLP	TCLP Lead by ICP	mg/L	5
EPA 6010B-STLC	STLC Lead by ICP	mg/L	5

Client ID	Sample Date
SB-1-SW5-D3.0	06/12/2023 10:45

Lab ID	Matrix	Quantity of Containers
BEF0098-35	Soil	1

Method	Analyte	Units	TAT

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Parsons	AETL Job Number:	BEF0098	Site:	LAUSD Canoga	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	Canoga Park High School	Reported:	07/17/2023 12:27	

Samples Received

(Continued)

AETL received the following samples on 06/12/2023 with the following specifications

EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Client ID: SB-1-SW10-D2.0 **Sample Date:** 06/12/2023 10:58

Lab ID: BEF0098-37 **Matrix:** Soil **Quantity of Containers:** 1

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Client ID: SB-3-SW10-D0.5 **Sample Date:** 06/12/2023 11:36

Lab ID: BEF0098-42 **Matrix:** Soil **Quantity of Containers:** 1

Method	Analyte	Units	TAT
EPA 6010B-STLC	STLC Lead by ICP	mg/L	5

Client ID: SB-3-SE10-D0.5 **Sample Date:** 06/12/2023 12:00

Lab ID: BEF0098-49 **Matrix:** Soil **Quantity of Containers:** 1

Method	Analyte	Units	TAT
EPA 6010B-1311 TCLP	TCLP Lead by ICP	mg/L	5
EPA 6010B-STLC	STLC Lead by ICP	mg/L	5

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEF0098 [none] Justin King Canoga Park High School	Site: Reported:	LAUSD Canoga 6850 CA-27 Canoga Park, CA 91303 07/17/2023 12:27

Samples Received

(Continued)

AETL received the following samples on 06/12/2023 with the following specifications

Client ID: SB-3-SE10-D2.0 **Sample Date:** 06/12/2023 12:02

Lab ID: BEF0098-50 **Matrix:** Soil **Quantity of Containers:** 1

Method	Analyte	Units	TAT
EPA 6010B	Lead, total by ICP	mg/kg	5

Client ID: SB-44-N10-D2.0 **Sample Date:** 06/12/2023 13:19

Lab ID: BEF0098-59 **Matrix:** Soil **Quantity of Containers:** 1

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Total Number of Samples received: 13

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEF0098 [none] Justin King Canoga Park High School	Site: Reported:	LAUSD Canoga 6850 CA-27 Canoga Park, CA 91303 07/17/2023 12:27

Positive Hits Summary

Lab ID	Client ID				Sampled
BEF0098-50	SB-3-SE10-D2.0				06/12/2023 12:02
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	3.79	J	mg/kg	07/07/2023 14:48

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Parsons	AETL Job Number:	BEF0098	Site:	LAUSD Canoga	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	Canoga Park High School	Reported:	07/17/2023 12:27	

Analytical Results

Client ID: SB-3-SE10-D2.0
Lab ID: BEF0098-50 (Soil) **Sampled:** 06/12/23 12:02

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Lead	**3.79**	J	1	0.550	5.00	mg/kg	07/07/23 08:27	07/07/23 14:48	B3G0067	LC	3050B

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEF0098 [none] Justin King Canoga Park High School	Site: Reported:	LAUSD Canoga 6850 CA-27 Canoga Park, CA 91303 07/17/2023 12:27

Quality Control Results

Metals Total (EPA 6010B)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3G0067 - 3050B					**Prepared: 07/07/2023 08:27**						
Method Blank (B3G0067-BLK1)					**Analyzed: 07/07/2023 14:28**						
Lead	ND	0.550	5.00	mg/kg							

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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEF0098 [none] Justin King Canoga Park High School	Site: Reported:	LAUSD Canoga 6850 CA-27 Canoga Park, CA 91303 07/17/2023 12:27

Quality Control Results

Metals Total (EPA 6010B)

Analyte	Result		RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3G0067 - 3050B (Continued)					**Prepared: 07/07/2023 08:27**						
LCS (B3G0067-BS1)					**Analyzed: 07/07/2023 14:31**						
Lead	92.5		5.00	mg/kg	96.2		96.2	75-125			
LCSD (B3G0067-BSD1)					**Analyzed: 07/07/2023 14:34**						
Lead	96.6		5.00	mg/kg	99.0		97.6	75-125	4.29	15	
Duplicate (B3G0067-DUP1)		**Source: BEG0030-01**			**Analyzed: 07/07/2023 14:40**						
Lead	7.53	0.550	5.00	mg/kg		7.07			6.20	20	
Matrix Spike (B3G0067-MS1)		**Source: BEG0030-01**			**Analyzed: 07/07/2023 14:42**						
Lead	93.0	0.550	5.00	mg/kg	97.1	7.07	88.5	75-125			
Matrix Spike Dup (B3G0067-MSD1)		**Source: BEG0030-01**			**Analyzed: 07/07/2023 14:45**						
Lead	98.2	0.550	5.00	mg/kg	99.0	7.07	92.1	75-125	5.50	15	

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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEF0098 [none] Justin King Canoga Park High School	Site: Reported:	LAUSD Canoga 6850 CA-27 Canoga Park, CA 91303 07/17/2023 12:27

Qualifiers and Definitions

Item	Qualifiers
J	Analyte was detected. However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Reporting Limit (RL).

Item	Definitions
% wt	Percent Weight
%REC	Percent Recovery
°F	Degrees Fahrenheit
AETL	American Environmental Testing Laboratory, LLC
C	Carbon
CARB	California Air Resources Board
COC	Chain of Custody
Cresols	3-methylphenol/4-methylphenol coelute and cannot be chromatographically separated. Due to this coeluting isomer pair phenomenon, the laboratory uses a single cresol (4-methylphenol) as calibration standard for 3-methylphenol/4-methylphenol.
CRM	Certified Reference Material
DI	Deionized Water
DPD	Department of Planning and Development
DRO	Diesel Range Organics
Dup	Duplicate
ELAP	Environmental Laboratory Accreditation Program
EPA	Environmental Protection Agency
GC/FID	Gas Chromatography Flame Ionization Detection
GRO	Gasoline Range Organics
HC	Hydrocarbon
HEM	Hexane Extractable Material
HMU	Hazardous Material Unit
ICP/MS	Inductively Coupled Plasma Mass Spectrometry
LACSD	Los Angeles County Sanitation Districts
LCS	Laboratory Control Sample - A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes.
LCSD	Laboratory Control Sample Duplicate - A replicate of Laboratory Control Sample.
LOQ	Limit of Quantitation
MDL	Method Detection Limit - The minimum measured concentration of a substance that can be reported with 99% confidence. MDL is statistically derived number which is specific for each instrument, each method and each compound.
mg/kg	Miligrams per Kilogram
mg/L	Miligrams per Liter
ml/L/hr	Milliliter per Liter per Hour
MRO	Motor oil Range Organics

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Parsons	AETL Job Number:	BEF0098	Site:	LAUSD Canoga
100 West Walnut Street	Project Number:	[none]		6850 CA-27
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303
	Project Name:	Canoga Park High School	Reported:	07/17/2023 12:27

MS	Matrix Spike - A sample prepared, taken through all sample preparation and analytical steps of the procedure and analyzed as an independent test results.
MSD	Matrix Spike Duplicate - A replicate of Matrix Spike Sample.
N	No
ND	Analyte is not detected below Method Detection Limit.
ng/m3	Nanograms per cubic meter
NIOSH	National Institute for Occupational Safety and Health
nL/L	Nanoliters per Liter
NTU	Nephelometric Turbidity Units
Ohm-cm	Ohms per centimeter
ORO	Oil Range Organics
OSHA	Occupational Safety and Health Administration
PCB	Polychlorinated Biphenyl
ppb v	Parts per billion by volume
ppmC	Parts per million Carbon
PSU	Practical Salinity Unit
RL	Reporting Limit - The lowest concentration at which an analyte can be detected in a sample and its concentration can be reported with a specified degree of confidence, accuracy and precision. For usage at AETL, RL is equivalant to LOQ.
RPD	Relative Percent Difference
SIM	Selective Ion Monitoring
SM	Standard Method
SPLP	Synthetic Precipitation Leaching Procedure
STLC	Soluble Threshold Limit Concentration
TCLP	Toxicity Characteristic Leaching Procedure
TPH	Total Petroleum Hydrocarbons
TTLC	Total Threshold Limit Concentrations
ug/kg	Micrograms per Kilogram
ug/L	Micrograms per Liter
ug/m3	Micrograms per cubic meter
WET	Waste Extraction Test
Y	Yes
ZHE	Zero Headspace Extraction

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

July 14, 2023

Hailley Coleman
American Environmental Testing Laboratory, Inc.
2834 N. Naomi Street
Burbank, CA 91504

TEL: (818) 845-8200
FAX:

Workorder No.: N057589

RE: BEF0098.02

Attention: Hailley Coleman

Enclosed are the results for sample(s) received on July 07, 2023 by ASSET Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562) 219-7435 if I can be of further assistance to your company.

Sincerely,



Ferdinand Paul Lugtu
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and ASSET Laboratories - California.

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

All sample containers were received intact with proper chain of custody documentation.

Information on sample receipt conditions including discrepancies can be found in attached Sample Receipt Checklist Form.

Cooler temperature and sample preservation were verified upon receipt of samples if applicable.

Samples were analyzed within method holding time.

Analytical Comments for WET/ EPA 6010B:

Matrix Spike Duplicate (MSD) are outside recovery criteria since the analyte concentration in the sample is disproportionate to the spike level. The associated Laboratory Control Sample (LCS) recovery was acceptable.

Analytical Comments for EPA 6020:

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria possibly due to matrix interference. The associated Laboratory Control Sample (LCS) recovery was acceptable.

CLIENT: American Environmental Testing Laborator
Project: BEF0098.02
Lab Order: N057589
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N057589-001A	BEF0098-05	Soil	6/12/2023 8:27:00 AM	7/7/2023	7/14/2023
N057589-002A	BEF0098-11	Soil	6/12/2023 8:49:00 AM	7/7/2023	7/14/2023
N057589-003A	BEF0098-12	Soil	6/12/2023 8:51:00 AM	7/7/2023	7/14/2023
N057589-004A	BEF0098-17	Soil	6/12/2023 9:12:00 AM	7/7/2023	7/14/2023
N057589-005A	BEF0098-18	Soil	6/12/2023 9:14:00 AM	7/7/2023	7/14/2023
N057589-006A	BEF0098-28	Soil	6/12/2023 10:20:00 AM	7/7/2023	7/14/2023
N057589-007A	BEF0098-33	Soil	6/12/2023 10:41:00 AM	7/7/2023	7/14/2023
N057589-008A	BEF0098-35	Soil	6/12/2023 10:45:00 AM	7/7/2023	7/14/2023
N057589-009A	BEF0098-37	Soil	6/12/2023 10:58:00 AM	7/7/2023	7/14/2023
N057589-010A	BEF0098-42	Soil	6/12/2023 11:36:00 AM	7/7/2023	7/14/2023
N057589-011A	BEF0098-49	Soil	6/12/2023 12:00:00 PM	7/7/2023	7/14/2023
N057589-012A	BEF0098-59	Soil	6/12/2023 1:19:00 PM	7/7/2023	7/14/2023

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0098-05
Lab Order:	N057589		
Project:	BEF0098.02	**Collection Date:**	6/12/2023 8:27:00 AM
Lab ID:	N057589-001	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP7_230710B	QC Batch: 100667			PrepDate:	7/10/2023	Analyst: **DJ**
Arsenic	3.9	0.50		mg/Kg	1	7/10/2023 05:09 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0098-11
Lab Order:	N057589		
Project:	BEF0098.02	**Collection Date:**	6/12/2023 8:49:00 AM
Lab ID:	N057589-002	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS BY STLC						
	EPA 3010A			**WET/ EPA 6010B**		
RunID: CA01638-ICP01_230711B	QC Batch: 100685			PrepDate:	7/10/2023	Analyst: **PL**
Arsenic	3.1	0.25		mg/L	5	7/11/2023 01:01 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0098-12
Lab Order:	N057589		
Project:	BEF0098.02	**Collection Date:**	6/12/2023 8:51:00 AM
Lab ID:	N057589-003	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP7_230710B	QC Batch: 100667			PrepDate:	7/10/2023	Analyst: **DJ**
Arsenic	5.0	0.50		mg/Kg	1	7/10/2023 05:32 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0098-17
Lab Order:	N057589		
Project:	BEF0098.02	**Collection Date:**	6/12/2023 9:12:00 AM
Lab ID:	N057589-004	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS BY STLC						
EPA 3010A				**WET/ EPA 6010B**		
RunID: CA01638-ICP01_230711B QC Batch: 100685				PrepDate: 7/10/2023		Analyst: **PL**
Arsenic	5.5	0.25		mg/L	5	7/11/2023 01:04 PM
ICP METALS BY TCLP EXTRACTION						
EPA 3010A				**EPA 1311/ 6010B**		
RunID: CA01638-ICP01_230711D QC Batch: 100686				PrepDate: 7/10/2023		Analyst: **PL**
Arsenic	1.1	0.050		mg/L	1	7/11/2023 02:26 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0098-18
Lab Order:	N057589		
Project:	BEF0098.02	**Collection Date:**	6/12/2023 9:14:00 AM
Lab ID:	N057589-005	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP7_230710B	QC Batch: 100667			PrepDate:	7/10/2023	Analyst: **DJ**
Arsenic	3.7	0.50		mg/Kg	1	7/10/2023 05:37 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0098-28
Lab Order:	N057589		
Project:	BEF0098.02	**Collection Date:**	6/12/2023 10:20:00 AM
Lab ID:	N057589-006	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP7_230710B	QC Batch: 100667			PrepDate:	7/10/2023	Analyst: **DJ**
Arsenic	5.2	0.50		mg/Kg	1	7/10/2023 05:56 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0098-33
Lab Order:	N057589		
Project:	BEF0098.02	**Collection Date:**	6/12/2023 10:41:00 AM
Lab ID:	N057589-007	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS BY STLC						
EPA 3010A				**WET/ EPA 6010B**		
RunID: CA01638-ICP01_230711B	QC Batch: 100685			PrepDate:	7/10/2023	Analyst: **PL**
Lead	6.3	0.25		mg/L	5	7/11/2023 01:07 PM
ICP METALS BY TCLP EXTRACTION						
EPA 3010A				**EPA 1311/ 6010B**		
RunID: CA01638-ICP01_230711D	QC Batch: 100686			PrepDate:	7/10/2023	Analyst: **PL**
Lead	ND	0.050		mg/L	1	7/11/2023 02:29 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0098-35
Lab Order:	N057589		
Project:	BEF0098.02	**Collection Date:**	6/12/2023 10:45:00 AM
Lab ID:	N057589-008	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP7_230710B	QC Batch: 100667			PrepDate:	7/10/2023	Analyst: **DJ**
Arsenic	4.9	0.50		mg/Kg	1	7/10/2023 06:01 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0098-37
Lab Order:	N057589		
Project:	BEF0098.02	**Collection Date:**	6/12/2023 10:58:00 AM
Lab ID:	N057589-009	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP7_230710B	QC Batch: 100667			PrepDate:	7/10/2023	Analyst: **DJ**
Arsenic	5.3	0.50		mg/Kg	1	7/10/2023 06:05 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0098-42
Lab Order:	N057589		
Project:	BEF0098.02	**Collection Date:**	6/12/2023 11:36:00 AM
Lab ID:	N057589-010	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS BY STLC						
EPA 3010A				**WET/ EPA 6010B**		
RunID: CA01638-ICP01_230711B	QC Batch: 100685			PrepDate:	7/10/2023	Analyst: **PL**
Lead	1.2	0.25		mg/L	5	7/11/2023 01:10 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0098-49
Lab Order:	N057589		
Project:	BEF0098.02	**Collection Date:**	6/12/2023 12:00:00 PM
Lab ID:	N057589-011	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS BY STLC						
EPA 3010A				**WET/ EPA 6010B**		
RunID: CA01638-ICP01_230711B	QC Batch: 100685			PrepDate:	7/10/2023	Analyst: **PL**
Lead	4.8	0.25		mg/L	5	7/11/2023 01:19 PM
ICP METALS BY TCLP EXTRACTION						
EPA 3010A				**EPA 1311/ 6010B**		
RunID: CA01638-ICP01_230711D	QC Batch: 100686			PrepDate:	7/10/2023	Analyst: **PL**
Lead	ND	0.050		mg/L	1	7/11/2023 02:38 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0098-59
Lab Order:	N057589		
Project:	BEF0098.02	**Collection Date:**	6/12/2023 1:19:00 PM
Lab ID:	N057589-012	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP7_230710B	QC Batch: 100667			PrepDate:	7/10/2023	Analyst: **DJ**
Arsenic	22	0.50		mg/Kg	1	7/10/2023 06:10 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: American Environmental Testing Laboratory, Inc.
Work Order: N057589
Project: BEF0098.02

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_S_PPM

Sample ID: **MB-100667**	SampType: **MBLK**	TestCode: **6020_S_PPM**	Units: **mg/Kg**	Prep Date: **7/10/2023**	RunNo: **173763**
Client ID: **PBS**	Batch ID: **100667**	TestNo: **EPA 6020**	**EPA 3050B**	Analysis Date: **7/10/2023**	SeqNo: **5275285**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.50									

Sample ID: **LCS-100667**	SampType: **LCS**	TestCode: **6020_S_PPM**	Units: **mg/Kg**	Prep Date: **7/10/2023**	RunNo: **173763**
Client ID: **LCSS**	Batch ID: **100667**	TestNo: **EPA 6020**	**EPA 3050B**	Analysis Date: **7/10/2023**	SeqNo: **5275286**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	5.080	0.50	5.000	0	102	85	115				

Sample ID: **N057589-001A-MS**	SampType: **MS**	TestCode: **6020_S_PPM**	Units: **mg/Kg**	Prep Date: **7/10/2023**	RunNo: **173763**
Client ID: **ZZZZZZ**	Batch ID: **100667**	TestNo: **EPA 6020**	**EPA 3050B**	Analysis Date: **7/10/2023**	SeqNo: **5275290**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	11.534	0.50	4.988	3.949	152	75	125				S

Sample ID: **N057589-001A-MSD**	SampType: **MSD**	TestCode: **6020_S_PPM**	Units: **mg/Kg**	Prep Date: **7/10/2023**	RunNo: **173763**
Client ID: **ZZZZZZ**	Batch ID: **100667**	TestNo: **EPA 6020**	**EPA 3050B**	Analysis Date: **7/10/2023**	SeqNo: **5275291**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	11.738	0.50	4.975	3.949	157	75	125	11.53	1.76	20	S

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

ANALYTICAL QC SUMMARY REPORT

TestCode: CA_6010_ST

Sample ID: **LCS-100685** SampType: **LCS** TestCode: **CA_6010_ST** Units: **mg/L** Prep Date: **7/10/2023** RunNo: **173764**
Client ID: **LCSS** Batch ID: **100685** TestNo: **WET/ EPA 60 EPA 3010A** Analysis Date: **7/11/2023** SeqNo: **5275427**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.507	0.050	0.5000	0	101	85	115				
Lead	0.493	0.050	0.5000	0	98.7	85	115				

Sample ID: **MB-100685** SampType: **MBLK** TestCode: **CA_6010_ST** Units: **mg/L** Prep Date: **7/10/2023** RunNo: **173764**
Client ID: **PBS** Batch ID: **100685** TestNo: **WET/ EPA 60 EPA 3010A** Analysis Date: **7/11/2023** SeqNo: **5275428**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.050									
Lead	ND	0.050									

Sample ID: **MB-100632 STLC** SampType: **MBLK** TestCode: **CA_6010_ST** Units: **mg/L** Prep Date: **7/10/2023** RunNo: **173764**
Client ID: **PBS** Batch ID: **100685** TestNo: **WET/ EPA 60 EPA 3010A** Analysis Date: **7/11/2023** SeqNo: **5275429**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.029	0.25									
Lead	ND	0.25									

Sample ID: **N057572-001A-MS** SampType: **MS** TestCode: **CA_6010_ST** Units: **mg/L** Prep Date: **7/10/2023** RunNo: **173764**
Client ID: **ZZZZZZ** Batch ID: **100685** TestNo: **WET/ EPA 60 EPA 3010A** Analysis Date: **7/11/2023** SeqNo: **5275437**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.680	0.25	0.5000	0.1442	107	75	125				
Lead	11.591	0.25	0.5000	11.21	76.6	75	125				

Sample ID: **N057572-001A-MSD** SampType: **MSD** TestCode: **CA_6010_ST** Units: **mg/L** Prep Date: **7/10/2023** RunNo: **173764**
Client ID: **ZZZZZZ** Batch ID: **100685** TestNo: **WET/ EPA 60 EPA 3010A** Analysis Date: **7/11/2023** SeqNo: **5275438**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.669	0.25	0.5000	0.1442	105	75	125	0.6804	1.74	20	

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: American Environmental Testing Laboratory, Inc.
Work Order: N057589
Project: BEF0098.02

ANALYTICAL QC SUMMARY REPORT

TestCode: CA_6010_ST

Sample ID: **N057572-001A-MSD** SampType: **MSD** TestCode: **CA_6010_ST** Units: **mg/L** Prep Date: **7/10/2023** RunNo: **173764**
Client ID: **ZZZZZZ** Batch ID: **100685** TestNo: **WET/ EPA 60 EPA 3010A** Analysis Date: **7/11/2023** SeqNo: **5275438**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	12.283	0.25	0.5000	11.21	215	75	125	11.59	5.80	20	S

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

ANALYTICAL QC SUMMARY REPORT

TestCode: CA_6010_TC

Sample ID: **LCS-100686** SampType: **LCS** TestCode: **CA_6010_TC** Units: **mg/L** Prep Date: **7/10/2023** RunNo: **173766**
Client ID: **LCSS** Batch ID: **100686** TestNo: **EPA 1311/ 60 EPA 3010A** Analysis Date: **7/11/2023** SeqNo: **5275710**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.522	0.050	0.5000	0	104	85	115				
Lead	0.497	0.050	0.5000	0	99.3	85	115				

Sample ID: **MB-100686** SampType: **MBLK** TestCode: **CA_6010_TC** Units: **mg/L** Prep Date: **7/10/2023** RunNo: **173766**
Client ID: **PBS** Batch ID: **100686** TestNo: **EPA 1311/ 60 EPA 3010A** Analysis Date: **7/11/2023** SeqNo: **5275711**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.050									
Lead	ND	0.050									

Sample ID: **MB-100631 TCLP** SampType: **MBLK** TestCode: **CA_6010_TC** Units: **mg/L** Prep Date: **7/10/2023** RunNo: **173766**
Client ID: **PBS** Batch ID: **100686** TestNo: **EPA 1311/ 60 EPA 3010A** Analysis Date: **7/11/2023** SeqNo: **5275712**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.005	0.050									
Lead	ND	0.050									

Sample ID: **MB-100663 TCLP** SampType: **MBLK** TestCode: **CA_6010_TC** Units: **mg/L** Prep Date: **7/10/2023** RunNo: **173766**
Client ID: **PBS** Batch ID: **100686** TestNo: **EPA 1311/ 60 EPA 3010A** Analysis Date: **7/11/2023** SeqNo: **5275713**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.007	0.050									
Lead	ND	0.050									

Sample ID: **N057572-001A-MS** SampType: **MS** TestCode: **CA_6010_TC** Units: **mg/L** Prep Date: **7/10/2023** RunNo: **173766**
Client ID: **ZZZZZZ** Batch ID: **100686** TestNo: **EPA 1311/ 60 EPA 3010A** Analysis Date: **7/11/2023** SeqNo: **5275716**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.564	0.050	0.5000	0.006230	112	75	125				

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: American Environmental Testing Laboratory, Inc.
Work Order: N057589
Project: BEF0098.02

ANALYTICAL QC SUMMARY REPORT

TestCode: CA_6010_TC

Sample ID: **N057572-001A-MS** SampType: **MS** TestCode: **CA_6010_TC** Units: **mg/L** Prep Date: **7/10/2023** RunNo: **173766**
Client ID: **ZZZZZZ** Batch ID: **100686** TestNo: **EPA 1311/ 60 EPA 3010A** Analysis Date: **7/11/2023** SeqNo: **5275716**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.981	0.050	0.5000	0.5183	92.6	75	125				

Sample ID: **N057572-001A-MSD** SampType: **MSD** TestCode: **CA_6010_TC** Units: **mg/L** Prep Date: **7/10/2023** RunNo: **173766**
Client ID: **ZZZZZZ** Batch ID: **100686** TestNo: **EPA 1311/ 60 EPA 3010A** Analysis Date: **7/11/2023** SeqNo: **5275717**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.556	0.050	0.5000	0.006230	110	75	125	0.5644	1.44	20	
Lead	0.980	0.050	0.5000	0.5183	92.2	75	125	0.9813	0.187	20	

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

AETL01 C: 7/14/2023 12:00 AM
FOLDER R: 7/7/2023
057589-0 1 of 1

AMERICAN ENVIRONMENTAL TE
bank, CA 91

KYZER LABS

SUBC T CT CH of CUSTODY

Sending Laboratory:

AETL
AETL, LLC. 2840 N. Naomi Street
Burbank, CA 91504
Phone: 818-845-8200

Project Manager: Hailley Coleman
Email: hcoleman@aetlab.com

Subcontracted Laboratory:

ASSET Laboratories
11110 Artesia Blvd.
Cerritos, CA 90703
Phone: (702)307-2659
Fax: (562)219-7435

Work Order: BEF0098.02 PO# SUB-35589

Analysis	Due	Expires	Comments
Soil Sampled: 06/12/2023 08:15			5-DAY TAT
6020-As (Arsenic, total by ICP/MS)	06/19/2023	12/09/2023 08:15	
Containers Supplied:			
Soil Sampled: 06/12/2023 08:17			
6020-As (Arsenic, total by ICP/MS)	06/19/2023	12/09/2023 08:17	
Containers Supplied:			
Soil Sampled: 06/12/2023 08:25			
6020-As (Arsenic, total by ICP/MS)	06/19/2023	12/09/2023 08:25	
Containers Supplied:			
Sample ID: BEF0098-05 *Soil Sampled: 06/12/2023 08:27*			
6020-As (Arsenic, total by ICP/MS)	06/19/2023	12/09/2023 08:27	
Containers Supplied:			
~~**Sample ID: BEF0098-07**~~ *Soil Sampled: 06/12/2023 08:37*			
6020-As (Arsenic, total by ICP/MS)	06/19/2023	12/09/2023 08:37	

N057589-001

CA: 1.9°C IR#2

Approved by: HAILLE COLEMAN 7 6 3
AETL Project Manager Date

Released By AETL Sample Control Date

Rel sed By Courier D e eceived By Subcontra t Laboratory at

Michael Naibel Ramos 7/7/23 17:00 Page 1 of 7 1/23

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LV = GLS# 5541 temp: NA

AMERICAN ENVIRONMENTAL TESTING LABORATORY, LLC
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Telephone (888) 288-AETL • (818) 845-8200 • www.aetlab.com

SUBC CT CH of CUSTODY
(Continued)

Work Order: BEF0098 (Continued)

Analysis	Due	Expires	Comments
Containers Supplied:			
Soil Sampled: 06/12/2023 08:39			
6020-As (Arsenic, total by ICP/MS)	06/19/2023	12/09/2023 08:39	
Containers Supplied:			
Soil Sampled: 06/12/2023 08:41			
6020-As (Arsenic, total by ICP/MS)	06/19/2023	12/09/2023 08:41	
Containers Supplied:			
Sample ID: BEF0098-11 ***Soil Sampled: 06/12/2023 08:49***			
STLC-Extraction (STLC-Extraction)	06/19/2023	06/26/2023 08:49	CAN ALSO USE JAR PREVIOUSLY
6020-As (Arsenic, total by ICP/MS)	06/19/2023	12/09/2023 08:49	SENT W/ BEF0098-01 JOB
STLC-6010B-As (STLC Arsenic by ICP)	06/19/2023	12/09/2023 08:49	
Containers Supplied:			
Sample ID: BEF0098-12 ***Soil Sampled: 06/12/2023 08:51***			
6020-As (Arsenic, total by ICP/MS)	06/19/2023	12/09/2023 08:51	
Containers Supplied:			
Soil Sampled: 06/12/2023 09:01			
STLC-Extraction (STLC-Extraction)	06/19/2023	06/26/2023 09:01	
6020-As (Arsenic, total by ICP/MS)	06/19/2023	12/09/2023 09:01	
STLC-6010B-As (STLC Arsenic by ICP)	06/19/2023	12/09/2023 09:01	
Containers Supplied:			

VA: 5.9 IR#2

Approved by:
AETL Project Manager _____ Date _____

Released By AETL Sample Control Date Received By Date

Received By Courier Date Received By Contract Laboratory Date

Manfred Manfred Ramos 7/7/23 1700

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L.V - GLS 45581 Temp: NA

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SUBCO T ACT CH of CUSTODY
(Continued)

Work Order: BEF0098 (Continued)

Analysis	Due	Expires	Comments
Soil Sampled: 06/12/2023 09:03			
6020-As (Arsenic, total by ICP/MS)	06/19/2023	12/09/2023 09:03	
Containers Supplied:			
Sample ID: BEF0098-17 *Soil Sampled: 06/12/2023 09:12*			
TCLP-6010B-As (TCLP Arsenic by ICP)	06/19/2023	06/22/2023 09:12	JAR ALSO PREVIOUSLY SENT
STLC-Extraction (STLC-Extraction)	06/19/2023	06/26/2023 09:12	
TCLP-Extraction (TCLP Extraction)	06/19/2023	09/20/2023 09:12	
STLC-6010B-As (STLC Arsenic by ICP)	06/19/2023	12/09/2023 09:12	
,	06/19/2023	12/09/2023 09:12	
Containers Supplied:			
Sample ID: BEF0098-18 *Soil Sampled: 06/12/2023 09:14*			
6020-As (Arsenic, total by ICP/MS)	06/19/2023	12/09/2023 09:14	
Containers Supplied:			
Soil Sampled: 06/12/2023 08:06			
6020-As (Arsenic, total by ICP/MS)	06/19/2023	12/09/2023 08:06	
Containers Supplied:			
Soil Sampled: 06/12/2023 08:08			
6020-As (Arsenic, total by ICP/MS)	06/19/2023	12/09/2023 08:08	
Containers Supplied:			
Soil Sampled: 06/12/2023 10:05			
6020-As (Arsenic, total by ICP/MS)	06/19/2023	12/09/2023 10:05	

Approved by:
AETL Project Manager Date

CA: 1.9° C IR#2

Released By AETL Sample Control Date Recei By Co rier

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Manuel Manuel Ramos 7/7/23 1700

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LV: GLS # 5591 Temp NA

N057589-006

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SUBCO TR CT CH of CUSTODY
(Continued)

Work Order: BEF0098 (Continued)

Analysis	Due	Expires	Comments
Soil Sampled: 06/12/2023 10:39			
6020-As (Arsenic, total by ICP/MS)	06/19/2023	12/09/2023 10:39	
TCLP-6010B-Pb (TCLP Lead by ICP)	06/19/2023	12/09/2023 10:39	
Containers Supplied:			
Sample ID: BEF0098-33 *Soil Sampled: 06/12/2023 10:41*			057589-007
STLC-Extraction (STLC-Extraction)	06/19/2023	06/26/2023 10:41	
TCLP-Extraction (TCLP Extraction)	06/19/2023	09/20/2023 10:41	
STLC-6010B-Pb (STLC Lead by ICP)	06/19/2023	09/20/2023 10:41	
~~6020-As (Arsenic, total by ICP/MS)~~	06/19/2023	12/09/2023 10:41	
TCLP-6010B-Pb (TCLP Lead by ICP)	06/19/2023	12/09/2023 10:41	
Containers Supplied:			
Soil Sampled: 06/12/2023 10:43			
6020-As (Arsenic, total by ICP/MS)	06/19/2023	12/09/2023 10:43	
Containers Supplied:			
Sample ID: BEF0098-35 *Soil Sampled: 06/12/2023 10:45*			7589-008
6020-As (Arsenic, total by ICP/MS)	06/19/2023	12/09/2023 10:45	
Containers Supplied:			
~~Sample~~ *Soil Sampled: 06/12/2023 10:56*			
6020-As (Arsenic, total by ICP/MS)	06/19/2023	12/09/2023 10:56	
Containers Supplied:			
Sample ID: BEF0098-37 *Soil Sampled: 06/12/2023 10:58*			7589-009
6020-As (Arsenic, total by ICP/MS)	06/19/2023	12/09/2023 10:58	

Approved by:
AETL Project Manager [redacted] Date

1.9° CIR#2

Released By AETL Sample Control Date Received by Courier

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Received By Courier Date Received By Subcontract Laboratory Date

Naibel Ramos 7/7/23 1700

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7/23 0848

LU: GLS A5591 Temp NA

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SUBCO T CT CH of CUSTODY
(Continued)

Work Order: BEF0098 (Continued)

Analysis				Comments
Containers Supplied:				
Soil Sampled: 06/12/2023 11:24				
STLC-Extraction (STLC-Extraction)	06/19/2023	06/26/2023	11:24	
TCLP-Extraction (TCLP Extraction)	06/19/2023	09/20/2023	11:24	
STLC-6010B-Pb (STLC Lead by ICP)	06/19/2023	09/20/2023	11:24	
TCLP-6010B-Pb (TCLP Lead by ICP)	06/19/2023	12/09/2023	11:24	
Containers Supplied:				
Sample ID: BEF0098-42 *Soil Sampled: 06/12/2023 11:36*				N057589-010
STLC-Extraction (STLC-Extraction)	06/19/2023	06/26/2023	11:36	
STLC-6010B-Pb (STLC Lead by ICP)	06/19/2023	09/20/2023	11:36	
Containers Supplied:				
Soil Sampled: 06/12/2023 11:46				
STLC-Extraction (STLC-Extraction)	06/19/2023	06/26/2023	11:46	
STLC-6010B-Pb (STLC Lead by ICP)	06/19/2023	09/20/2023	11:46	
TCLP-Extraction (TCLP Extraction)	06/19/2023	09/20/2023	11:46	
TCLP-6010B-Pb (TCLP Lead by ICP)	06/19/2023	12/09/2023	11:46	
Containers Supplied:				
Soil Sampled: 06/12/2023 11:47				
STLC-Extraction (STLC-Extraction)	06/19/2023	06/26/2023	11:47	
TCLP-Extraction (TCLP Extraction)	06/19/2023	09/20/2023	11:47	
STLC-6010B-Pb (STLC Lead by ICP)	06/19/2023	09/20/2023	11:47	
TCLP-6010B-Pb (TCLP Lead by ICP)	06/19/2023	12/09/2023	11:47	
Containers Supplied:				

Approved by:
AETL Project Manager

VA: 1.9°C FR#2

Released By AETL Sample Control	Date	Rec d By our r	1225
Released By Courier	D e	ecei d By Subco tract Laboratory	Date
Marbel Maribel Ramos 7/7/23 1700			0848 0/23

LV: GLS #5591 Temp: NA

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SUBC CT CH I of CUSTODY
(Continued)

Work Order: BEF0098 (Continued)

Analysis	Due	Expires	Comments
Sample ID: BEF0098-49 *Soil Sampled: 06/12/2023 12:00*			
STLC-Extraction (STLC-Extraction)	06/19/2023	06/26/2023 12:00	
STLC-6010B-Pb (STLC Lead by ICP)	06/19/2023	09/20/2023 12:00	
TCLP-Extraction (TCLP Extraction)	06/19/2023	09/20/2023 12:00	
TCLP-6010B-Pb (TCLP Lead by ICP)	06/19/2023	12/09/2023 12:00	
Containers Supplied:			
~~**Sample ID: BEF0098-52**~~ *Soil Sampled: 06/12/2023 12:53*			
6020-As (Arsenic, total by ICP/MS)	06/19/2023	12/09/2023 12:53	
Containers Supplied:			
Soil Sampled: 06/12/2023 13:05			
6020-As (Arsenic, total by ICP/MS)	06/19/2023	12/09/2023 13:05	
Containers Supplied:			
Soil Sampled: 06/12/2023 13:08			
6020-As (Arsenic, total by ICP/MS)	06/19/2023	12/09/2023 13:08	
Containers Supplied:			
Soil Sampled: 06/12/2023 13:17			
6020-As (Arsenic, total by ICP/MS)	06/19/2023	12/09/2023 13:17	
Containers Supplied:			
Sample ID: BEF0098-59 *Soil Sampled: 06/12/2023 13:19*			
6020-As (Arsenic, total by ICP/MS)	06/19/2023	12/09/2023 13:19	

N057589-011

N057589-012

VA: 1.9°C IR#2

Approved by:
AETL Project Manager

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LU: GLS#5591 temp N/A

ASSET Laboratories

Please review the checklist below. Any NO signifies non-compliance. Any non-compliance will be noted and must be understood as having an impact on the quality of the data. All tests will be performed as requested regardless of any compliance issues.

If you have any questions or further instruction, please contact our Project Coordinator at (702) 307-2659.

Cooler Received/Opened On:	7/7/2023	Workorder:	N057589
Rep sample Temp (Deg C):	1.9	IR Gun ID:	2
Temp Blank:	☐ Yes ☑ No		
Carrier name:	Walk-In		
Last 4 digits of Tracking No.:	NA	Packing Material Used:	None
Cooling process:	☑ Ice ☐ Ice Pack ☐ Dry Ice ☐ Other ☐ None		

Sample Receipt Checklist

1. Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
2. Custody seals intact, signed, dated on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
3. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
4. Chain of custody present?	Yes ☑	No ☐	
5. Sampler's name present in COC?	Yes ☐	No ☑	
6. Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
7. Chain of custody agrees with sample labels?	Yes ☑	No ☐	
8. Samples in proper container/bottle?	Yes ☑	No ☐	
9. Sample containers intact?	Yes ☑	No ☐	
10. Sufficient sample volume for indicated test?	Yes ☑	No ☐	
11. All samples received within holding time?	Yes ☑	No ☐	
12. Temperature of rep sample or Temp Blank within acceptable limit?	Yes ☑	No ☐	NA ☐
13. Water - VOA vials have zero headspace?	Yes ☐	No ☐	NA ☑
14. Water - pH acceptable upon receipt? Example: pH > 12 for (CN,S); pH<2 for Metals	Yes ☐	No ☐	NA ☑
15. Did the bottle labels indicate correct preservatives used?	Yes ☐	No ☐	NA ☑
16. Were there Non-Conformance issues at login?	Yes ☑	No ☐	NA ☐
Was Client notified?	Yes ☐	No ☐	NA ☑

Comments: Received at Las Vegas Lab on 7/10/23, via GSO#5591.

Checklist Completed By: MR 7/10/2023

Reviewed By: for: MBC

ASSET Laboratories

WORK ORDER Summary

10-Jul-23

WorkOrder: N057589

Client ID: AETL01

Project: BEF0098.02 **QC Level:** RTNE **Date Received:** 7/7/2023 12:25 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N057589-001A	BEF0098-05	6/12/2023 8:27:00 AM	7/14/2023	Soil	EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			7/14/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057589-002A	BEF0098-11	6/12/2023 8:49:00 AM	7/14/2023		EPA 3010A	AQPrep for Total Metals: ICP for STLC Extracts	☐	☐	☐	WS-CA
			7/14/2023		WET/ EPA 6010B	ICP METALS by STLC	☐	☐	☐	WS-CA
			7/14/2023		WET	STLC Sample Prep Metals	☐	☐	☐	WS-CA
N057589-003A	BEF0098-12	6/12/2023 8:51:00 AM	7/14/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			7/14/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057589-004A	BEF0098-17	6/12/2023 9:12:00 AM	7/14/2023		EPA 1311	TCLP Sample Prep Metals	☐	☐	☐	WS-CA
			7/14/2023		EPA 3010A	AQPrep for Total Metals: ICP for STLC Extracts	☐	☐	☐	WS-CA
			7/14/2023		EPA 3010A	AQPrep for Total Metals	☐	☐	☐	WS-CA
			7/14/2023		WET/ EPA 6010B	ICP METALS by STLC	☐	☐	☐	WS-CA
			7/14/2023		EPA 1311/ 6010B	ICP METALS by TCLP Extraction	☐	☐	☐	WS-CA
			7/14/2023		WET	STLC Sample Prep Metals	☐	☐	☐	WS-CA
N057589-005A	BEF0098-18	6/12/2023 9:14:00 AM	7/14/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			7/14/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057589-006A	BEF0098-28	6/12/2023 10:20:00 AM	7/14/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			7/14/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057589-007A	BEF0098-33	6/12/2023 10:41:00 AM	7/14/2023		EPA 1311	TCLP Sample Prep Metals	☐	☐	☐	WS-CA
			7/14/2023		EPA 3010A	AQPrep for Total Metals: ICP for STLC Extracts	☐	☐	☐	WS-CA
			7/14/2023		EPA 3010A	AQPrep for Total Metals	☐	☐	☐	WS-CA
			7/14/2023		WET/ EPA 6010B	ICP METALS by STLC	☐	☐	☐	WS-CA

ASSET Laboratories

WORK ORDER Summary

10-Jul-23

WorkOrder: N057589

Client ID: AETL01

Project: BEF0098.02 **QC Level:** RTNE **Date Received:** 7/7/2023 12:25 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N057589-007A	BEF0098-33	6/12/2023 10:41:00 AM	7/14/2023	Soil	EPA 1311/ 6010B	ICP METALS by TCLP Extraction	☐	☐	☐	WS-CA
			7/14/2023		WET	STLC Sample Prep Metals	☐	☐	☐	WS-CA
N057589-008A	BEF0098-35	6/12/2023 10:45:00 AM	7/14/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			7/14/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057589-009A	BEF0098-37	6/12/2023 10:58:00 AM	7/14/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			7/14/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057589-010A	BEF0098-42	6/12/2023 11:36:00 AM	7/14/2023		EPA 3010A	AQPrep for Total Metals: ICP for STLC Extracts	☐	☐	☐	WS-CA
			7/14/2023		WET/ EPA 6010B	ICP METALS by STLC	☐	☐	☐	WS-CA
			7/14/2023		WET	STLC Sample Prep Metals	☐	☐	☐	WS-CA
N057589-011A	BEF0098-49	6/12/2023 12:00:00 PM	7/14/2023		EPA 1311	TCLP Sample Prep Metals	☐	☐	☐	WS-CA
			7/14/2023		EPA 3010A	AQPrep for Total Metals: ICP for STLC Extracts	☐	☐	☐	WS-CA
			7/14/2023		EPA 3010A	AQPrep for Total Metals	☐	☐	☐	WS-CA
			7/14/2023		WET/ EPA 6010B	ICP METALS by STLC	☐	☐	☐	WS-CA
			7/14/2023		EPA 1311/ 6010B	ICP METALS by TCLP Extraction	☐	☐	☐	WS-CA
			7/14/2023		WET	STLC Sample Prep Metals	☐	☐	☐	WS-CA
N057589-012A	BEF0098-59	6/12/2023 1:19:00 PM	7/14/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			7/14/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057589-013A	FOLDER	7/14/2023	7/14/2023		Folder	Folder	☐	☐	☐	LAB
			7/14/2023		Folder	Folder	☐	☐	☐	LAB

Ship From
ASSET LABORATORIES
THAD MALIT
11110 ARTESIA BLVD. SUITE B
CERRITOS, CA 90703

Tracking #: 559725591

Ship To:
ASSET LABORATORIES
SAMPLE CONTROL-LV
3151 W. POST RD.,
LAS VEGAS, NV 89118

LAS VEGAS

D00006O

COD: $0.00
Weight: 0 lb(s)
Reference:

Delivery Instructions:
HOLD FOR PICKUP
Signature Type: STANDARD

88585783

Package 3 of 3

LABEL INSTRUCTIONS:

Do not copy or reprint this label for additional shipments - each package must have a unique barcode.
Step 1: Use the "Print Label" button on this page to print the shipping label on a laser or inkjet printer.
Step 2: Fold this page in half.
Step 3: Securely attach this label to your package and do not cover the barcode.

TERMS AND CONDITIONS:

By giving us your shipment to deliver, you agree to all of the General Logistics Systems US, Inc. (GLS) service terms & conditions including, but not limited to, limits of liability, declared value conditions, and claim procedures which are available on our website at www.gls-us.com.

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GLS

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2840 North Naomi Street, Burbank, CA 91504 • ELAP# 1541 • LACSD# 10181
Telephone (888) 288-AETL • (818) 845-8200 • www.aetlab.com
A KYZER LABS COMPANY

July 25, 2023

AETL Job No: BEF0098.03
Received Date: 06/12/2023
Project Number: [none]

Parsons
100 West Walnut Street
Pasadena, CA 91124
Telephone: (626) 440-6200

Attention: Justin King

Project Name: Canoga Park High School

Site: LAUSD Canoga
6850 CA-27
Canoga Park, CA 91303

Enclosed please find the results of analyses for samples which were analyzed as specified on the attached chain of custody. If you have any questions concerning this report, please do not hesitate to call.

Checked By: Hailley Coleman
Hailley Coleman
Project Manager

Approved By: Joe Sevrean
Joe Sevrean
Laboratory Director

Table of Contents

Client Project Name: Canoga Park High School Project Number: [none]
Work Order Number: BEF0098

1 Cover Letter 1
2 Sample Condition on Receipt 3
3 Chain of Custody 4
4 Cooler Receipt Forms 10
5 Case Narrative 11
6 Samples Received 12
7 Positive Hits Summary 13
8 Analytical Results 14
9 Qualifiers and Definitions 15
10 Sub Contracted Analysis 17

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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEF0098 [none] Justin King Canoga Park High School	Site: Reported:	LAUSD Canoga 6850 CA-27 Canoga Park, CA 91303 07/25/2023 16:57

Sample Condition on Receipt

Cooler ID: Default Cooler **Temperature: 5.7 °C**

Are the COCs Correct	Y		
Labels Legible	Y	Containers In Good Condition	Y
COC/Labels Agree	Y	Samples Preserved Properly	Y
Sufficient Sample Volume	Y	Sufficient Holding Time for all Tests	Y
Sample Labels intact	Y	Received on Ice	Y

Cooler ID: New Cooler **Temperature: 5.7 °C**

Are the COCs Correct	Y		
Labels Legible	Y	Containers In Good Condition	Y
COC/Labels Agree	Y	Samples Preserved Properly	Y
Sufficient Sample Volume	Y	Sufficient Holding Time for all Tests	Y
Sample Labels intact	Y	Received on Ice	Y

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

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CHAIN OF CUSTODY RECORD

108476

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut Street Pasadena, CA 91124
PHONE:
FAX: (310) 809-5793
PROJECT NAME: Canoga Park High School
PROJECT #:
SITE NAME AND ADDRESS: LAUSD Canoga 6850 CA-27, Canoga Park, CA 91303
PO #:

AETL JOB No. BEF0098

Page 1 of 6

ANALYSIS REQUESTED

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	STLL-Pb	TLLP-Pb	STLL-As	TLLP-As					TEST INSTRUCTIONS & COMMENTS
1	SB-26-W5-D0.5	BEF0098-01	6/12/2023	0815	Soil	1x9oz	none		X									
2	SB-26-W5-D2.0	-02		0817					X									Hold
3	SB-26-W5-D3.0	-03		0819														Hold
4	SB-26-W10-D0.5	-04		0825					X	ED								Hold
5	SB-26-W10-D2.0	-05		0827					X									Hold
6	SB-26-W10-D3.0	-06		0829														Hold
7	SB-26-S5-D0.5	-07		0837					X									
8	SB-26-S5-D0.5-DUP	-08		~~0841~~ 0839					X									
9	SB-26-S5-D2.0	-09		~~0843~~ 0841					X									Hold
10	SB-26-S5-D3.0	-10		~~088~~ 0843														Hold
11	SB-26-S10-D0.5	-11		0849					X	ED		X						Hold
12	SB-26-S10-D2.0	-12		0851					X									Hold
13	SB-26-S10-D3.0	-13		0853														Hold
14	SB-26-E5-D0.5	-14		0901					X			X						
15	SB-26-E5-D2.0	-15		0903					X									Hold

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y/ N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: E. Sadr	Signature:	Signature:
Printed Name: Edward Dabsys	Printed Name:	Printed Name:
Date: 6/12/2023 Time: 1600	Date: Time:	Date: Time:

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: AETL 3.
Signature:	Signature:	Signature: [signature]
Printed Name:	Printed Name:	Printed Name: Gretta Lirag Jansson
Date: Time:	Date: Time:	Date: 6/12/23 Time: 16:00

TURN AROUND TIME

☑ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

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CHAIN OF CUSTODY RECORD

108477

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut Street Pasadena, CA 91124
PHONE: (310) 809-5793
FAX:
PROJECT NAME: LAUSD Canoga
PROJECT #:
SITE NAME AND ADDRESS: Canoga Park Highschool 6850 CA-27 Canoga Park, CA 91303
PO #:

AETL JOB No. BEF0098

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1	SB-26-ES-D3.0	BEF0098-16	6/12/2023	0905	Soil	1x 4oz	none
2	SB-26-E10-D0.5	-17		0912			
3	SB-26-E10-D2.0	-18		0914			
4	SB-26-E10-D3.0	-19		0916			
5	SB-26-NW5-D0.5	-20		0806			
6	SB-26-NW5-D2.0	-21		0808			
7	SB-26-NW5-D3.0	-22		0810			
8	SB-1-NE5-D0.5	-23		1005			
9	SB-1-NE5-D2.0	-24		1007			
10	SB-1-NE5-D3.0	-25		1010			
11	SB-1-NW5-D0.5	-26		1016			
12	SB-1-NW5-D2.0	-27		1018			
13	SB-1-NW5-D3.0	-28		1020			
14	SB-1-NW10-D0.5	-29		1025			
15	SB-1-NW10-D2.0	-30		1027			

ANALYSIS REQUESTED

	Lead (6010B)	Arsenic (6020)	STLC-Pb	TCLP-Pb	STLC-As	TCLP-As					TEST INSTRUCTIONS & COMMENTS
1											Hold
2		X			X	X					Hold
3		X									Hold
4											Hold
5		X									
6		X									Hold
7											Hold
8	X	X									
9		X									Hold
10											Hold
11	X	X									
12		X									Hold
13		X									Hold
14		X									Hold
15											Hold

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y / N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

TURN AROUND TIME

☑ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

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RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:	Signature:	Signature:
Printed Name: Edvard Dabys	Printed Name:	Printed Name:
Date: 6/12/2023 Time: 1600	Date: Time:	Date: Time:
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: 3.**
Signature:	Signature:	Signature:
Printed Name:	Printed Name:	Printed Name:
Date: Time:	Date: Time:	Date: 6/12/23 Time: 16:00

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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CHAIN OF CUSTODY RECORD

111391

AETL JOB No. BEF0098

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut Street Pasadena, CA 91124
PHONE FAX: (310) 809-5793
PROJECT NAME: LAUSD Canoga
PROJECT #:
SITE NAME AND ADDRESS: Canoga Park Highschool 6850 CA-27 Canoga Park, CA 91303
PO #:

ANALYSIS REQUESTED

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	STLC-Pb	TCLP-Pb	STLC-As	TCLP-As					TEST INSTRUCTIONS & COMMENTS
1	SB-1-NW10-D3.0	BEF0098-31	6/12/23	1029	Soil	1x 9oz	none											Hold
2	SB-1-SW5-D0.5	32		1039				X	X	X	X							
3	SB-1-SW5-D0.5-DUP	33		1041				X	X	X	X							
4	SB-1-SW5-D2.0	34		1043				X	X									Hold
5	SB-1-SW5-D3.0	35		1045					X									Hold
6	SB-1-SW10-D0.5	36		1056				X	X									Hold
7	SB-1-SW10-D2.0	37		1058					X									Hold
8	SB-1-SW10-D3.0	38		1100														Hold
9	ED ~~SB-3-NW5-D0.5~~																	
10	ED ~~SB-3-NW5-D0.5-DUP~~																	
11	ED ~~SB-3-NW5-2.0~~																	
12	ED ~~SB-3-NW5-3.0~~																	
13	ED ~~SB-3-NW10-0.5~~																	
14	ED ~~SB-3-NW10-2.0~~																	
15	ED ~~SB-3-NW10-3.0~~																	

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y/ N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: E. Salas	Signature:	Signature:
Printed Name: Edward Dobbs	Printed Name:	Printed Name:
Date: 6/12/2023 Time: 1600	Date: Time:	Date: Time:

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: AETL 3.
Signature:	Signature:	Signature: Greta Q
Printed Name:	Printed Name:	Printed Name: Greta Cinegonsin
Date: Time:	Date: Time:	Date: 6/12/23 Time: 16:00

TURN AROUND TIME

☑ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

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CHAIN OF CUSTODY RECORD

111392

AETL JOB No. BEF0098

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut Street Pasadena, CA 91124
PHONE FAX: (310) 809-5793
PROJECT NAME: LAUSD Canoga
PROJECT #:
SITE NAME AND ADDRESS: Canoga Park Highschool 6850 CA27 Canoga Park, CA 91303
PO #:

ANALYSIS REQUESTED

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	STLC-Pb	TCLP-Pb	STLC-As	TCLP-As					TEST INSTRUCTIONS & COMMENTS
1	SB-3-SW5-D0.5	BEF0098-39	6/12/2023	1124	Soil	1x9oz	none	X		X	X							
2	SB-3-SW5-D2.0	40		1126				X										Hold
3	SB-3-SW5-D3.0	41		1128														Hold
4	SB-3-SW10-D0.5	42		1136				X		X								Hold
5	SB-3-SW10-D2.0	43		1138														Hold
6	SB-3-SW10-D3.0	44		1140														Hold
7	SB-3-SE5-D0.5	45		1146				X		X	X							
8	SB-3-SE5-D0.5-Dup	46		1147				X		X	X							
9	SB-3-SE5-D2.0	47		1148				X										Hold
10	SB-3-SE5-D3.0	48		1150														Hold
11	SB-3-SE10-D0.5	49		1200				X		X	X							Hold
12	SB-3-SE10-D2.0	50		1202				X										Hold
13	SB-3-SE10-D3.0	51		1204														Hold
14	SB-44-W5-D0.5	52		1253					X									
15	SB-44-W5-D2.0	53		1255														Hold

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y/ N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: [signature]	Signature:	Signature:
Printed Name: Edward Dabss	Printed Name:	Printed Name:
Date: 6/12/2023 Time: 1600	Date: Time:	Date: Time:

TURN AROUND TIME	DATA DELIVERABLE REQUIRED
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RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: 3.
Signature:	Signature:	Signature: [signature]
Printed Name:	Printed Name:	Printed Name: Preta Airagans
Date: Time:	Date: Time:	Date: 6/19/23 Time: 16:00

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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CHAIN OF CUSTODY RECORD

111393

AETL JOB No. BEF0098

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut St. Pasadena, CA 91124
PHONE / FAX: (310) 809-5793
PROJECT NAME: LAUSD Canoga
PROJECT #:
SITE NAME AND ADDRESS: Canoga Park Highschool 6850 CA-27 Canoga Park, CA 91303
PO #:

ANALYSIS REQUESTED

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	STLC-Pb	TCLP-Pb	STLC-As	TCLP-As					TEST INSTRUCTIONS & COMMENTS
1	SB-44-W5-D3.0	BEF0098-54	6/12/2023	1257	Soil	1 x 9oz	none											Hold
2	SB-44-N5-D0.5	55		1305					X									
3	SB-44-N5-D2.0	56		1308					X									Hold
4	SB-44-N5-D3.0	57		1310														Hold
5	SB-44-N10-D0.5	58		1317					X									Hold
6	SB-44-N10-D2.0	59		1319					X									Hold
7	SB-44-N10-D3.0	60		1321					X									Hold
8	SB-44-S10-D0.5	61		1329					X									
9	SB-44-S10-D2.0	62		1331					X									Hold
10	SB-44-S10-D3.0	63		1334														Hold
11	SB-5-E5-D0.5	64		1352					X									
12	SB-5-E5-D2.0	65		1354					X									Hold
13	SB-5-E5-D3.0	66		1357														Hold
14	SB-5-NE5-D0.5	67		1403					X									
15	SB-5-NE5-D0.5-Dup	68		1405					X									

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y/ N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: E. Sahl	Signature:	Signature:
Printed Name: Edward Dobys	Printed Name:	Printed Name:
Date: 6/12/2023 Time: 1600	Date: Time:	Date: Time:

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: AETL 3.
Signature:	Signature:	Signature: [signature]
Printed Name:	Printed Name:	Printed Name: Carolyn Greenberson
Date: Time:	Date: Time:	Date: 6/12/23 Time: 16:00

TURN AROUND TIME
☑ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED
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☐ GEOTRACKER (GLOBAL ID) _____
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DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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CHAIN OF CUSTODY RECORD

111394

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut Street Pasadena, CA 91124
PHONE / FAX: (310) 809-5743
PROJECT NAME: LAUSD Canoga
PROJECT #:
SITE NAME AND ADDRESS: Canoga Park Highschool 6850 CA-27, Canoga Park, CA 91303
PO #:
AETL JOB No. BEF0098
Page 6 of 6

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	STLC-Pb	TCLP-Pb	STLC-As	TCLP-As	TEST INSTRUCTIONS & COMMENTS
1	SB-5-NE5-D2.0	BEF0098-69	6/12/2023	1407	Soil	1x9oz	none							Hold
2	SB-5-NE5-D3.0	-70		1410										Hold
3	SB-5-NE10-D0.5	-71		1414										Hold
4	SB-5-NE10-D2.0	-72		1416										Hold
5	SB-5-NE10-D3.0	-73		1418										Hold
6	SB-5-NW5-D0.5	-74	1432	1434	EO				X					
7	SB-5-NW5-D2.0	-75	1437	1426	EO				X					Hold
8	SB-5-NW5-D3.0	-76	1439	1420	EO									Hold
9	SB-5-W5-D0.5	-77	1424	1434	EO				X					
10	SB-5-W5-D2.0	-78	1426	1439	EO									Hold
11	SB-5-W5-D3.0	-79	1428	1434	EO									Hold
12														
13														
14														
15														

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y/ N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

TURN AROUND TIME

☑ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY ☐ PDF ☐ GEOTRACKER (GLOBAL ID) _____ ☐ OTHER (PLEASE SPECIFY) _____

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: E. Dabis	Signature:	Signature:
Printed Name: Edward Dabis	Printed Name:	Printed Name:
Date: 6/12/2023 Time: 1600	Date: Time:	Date: Time:
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: 3.**
Signature:	Signature:	Signature: AETL
Printed Name:	Printed Name:	Printed Name: Enrique Carrasco
Date: Time:	Date: Time:	Date: 6/12/23 Time: 1600

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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TEL (888) 288-AETL • (818) 845-8200 • www.aetlab.com
A KYZER LABS COMPANY

COOLER RECEIPT FORM

Client Name: Parsons

Project Name: Canoga Park High School Project No.:

AETL Job Number: BEF0102

Date Received: 06/12/2023 Received by: Greta G

Carrier: ☐ AETL Courier ☑ Client ☐ GSL ☐ FedEx ☐ UPS
☐Others:

Samples were received in: ☑ Cooler (__1_____) ☐ Other (Specify)**:**

Sample Container Temperature: __5.7__ °C IR Gun S/N: 51941911MV

Type of sample containers: ☐ VOA, ☐ Glass bottles, ☑Wide mouth jars, ☐HDPE bottles, ☐ Metal sleeves, ☐ Acetate sleeves, ☐ 5035 Kit: ☐ AETL or ☐ Client, ☐ Tedlar Bags, Summa Canister: ☐ 6L, ☐ 3L, ☐ 1L, Others (Specify): _____

How are samples preserved: ☐ None, ☑ Ice, ☐ Blue Ice, ☐ Dry Ice
☑ None, ☐ HNO_3, ☐ NaOH, ☐ ZnOAc, ☐ HCl, ☐ $Na_2S_2O_3$, ☐ MeOH, ☐ $NaHSO_4$
☐ Other (Specify):

	Yes	No	N/A	Note or Comment
1. Are the COCs Correct?	✔			
2. Are Sample labels legible & indelible ink?	✔			
3. Do samples match the COC?	✔			
4. Are the required analyses clear?	✔			
5. Is there enough samples for required analysis?	✔			
6. Does cooler or samples have custody seal(s)?			✔	
7. Are sample containers in good condition?	✔			
8. Are samples preserved?	✔			
9. Are samples preserved properly for the intended analysis?	✔			
10. Are the VOAs free of headspace? See footnote.			✔	
11. Are the jars free of headspace?			✔	

* = see note below. N/A = Not Applicable

PLEASE NOTE ALL SAMPLES WILL BE DISPOSED OF 30 DAYS AFTER RECEIVING DATE. IF AETL IS INFORMED OTHERWISE, THERE WILL BE A STORAGE CHARGE PER SAMPLE PER MONTH FOR ANY SAMPLE HELD BEYOND 30 DAYS.

◯ Example maximum headspace bubble size; acceptance criteria not to exceed 5-6 mm in diameter.

For headspace bubbles exceeding 6 mm in diameter, sample receiving will tag the VOA and notify the Project Manager. The Project Manager will contact client for Analyze or Resample instructions.

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A KYZER LABS COMPANY

Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEF0098 [none] Justin King Canoga Park High School	Site: Reported:	LAUSD Canoga 6850 CA-27 Canoga Park, CA 91303 07/25/2023 16:57

Case Narrative

The following "Sample Received" Section summarizes the samples received and associated analyses requested as specified on the enclosed chain of custody.

Results as reported by the laboratory apply only to 1) the items tested, 2) as the samples are received, and 3) the accuracy of information provided. Information supplied by the customer that may affect validity of results and may be contained in this report include Project Name/Number, Site Location, Sample Locations, Sampling Dates/Times, Sample ID, Sample Preservation, Sample Matrix, Sample Properties, Field Blanks, Field Duplicates, Field Spikes, and Site Historical Data.

Accreditation applies only to the test methods listed on each scope of accreditation held by the laboratory; certifications held by the laboratory may not apply to results supplied in this report.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

Qualifiers are noted in the report.

The samples were subcontracted to Asset Laboratories for EPA 6020-As, STLC, and TCLP. Please see attached report for results.

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

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Parsons	AETL Job Number:	BEF0098	Site:	LAUSD Canoga	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	Canoga Park High School	Reported:	07/25/2023 16:57	

Samples Received

AETL received the following samples on 06/12/2023 with the following specifications

Client ID	Sample Date
SB-44-N10-D3.0	06/12/2023 13:21

Lab ID	Matrix	Quantity of Containers
BEF0098-60	Soil	2

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Total Number of Samples received: 1

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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEF0098 [none] Justin King Canoga Park High School	Site: Reported:	LAUSD Canoga 6850 CA-27 Canoga Park, CA 91303 07/25/2023 16:57

Positive Hits Summary

Lab ID	Client ID					Sampled
Method	Analyte	Result	Qualifier	Unit		Analyzed

Please see subcontract report.

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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEF0098 [none] Justin King Canoga Park High School	Site: Reported:	LAUSD Canoga 6850 CA-27 Canoga Park, CA 91303 07/25/2023 16:57

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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEF0098 [none] Justin King Canoga Park High School	Site: Reported:	LAUSD Canoga 6850 CA-27 Canoga Park, CA 91303 07/25/2023 16:57

Qualifiers and Definitions

Item	Definitions
% wt	Percent Weight
%REC	Percent Recovery
°F	Degrees Fahrenheit
AETL	American Environmental Testing Laboratory, LLC
C	Carbon
CARB	California Air Resources Board
COC	Chain of Custody
Cresols	3-methylphenol/4-methylphenol coelute and cannot be chromatographically separated. Due to this coeluting isomer pair phenomenon, the laboratory uses a single cresol (4-methylphenol) as calibration standard for 3-methylphenol/4-methylphenol.
CRM	Certified Reference Material
DI	Deionized Water
DPD	Department of Planning and Development
DRO	Diesel Range Organics
Dup	Duplicate
ELAP	Environmental Laboratory Accreditation Program
EPA	Environmental Protection Agency
GC/FID	Gas Chromatography Flame Ionization Detection
GRO	Gasoline Range Organics
HC	Hydrocarbon
HEM	Hexane Extractable Material
HMU	Hazardous Material Unit
ICP/MS	Inductively Coupled Plasma Mass Spectrometry
LACSD	Los Angeles County Sanitation Districts
LCS	Laboratory Control Sample - A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes.
LCSD	Laboratory Control Sample Duplicate - A replicate of Laboratory Control Sample.
LOQ	Limit of Quantitation
MDL	Method Detection Limit - The minimum measured concentration of a substance that can be reported with 99% confidence. MDL is statistically derived number which is specific for each instrument, each method and each compound.
mg/kg	Miligrams per Kilogram
mg/L	Miligrams per Liter
ml/L/hr	Milliliter per Liter per Hour
MRO	Motor oil Range Organics
MS	Matrix Spike - A sample prepared, taken through all sample preparation and analytical steps of the procedure and analyzed as an independent test results.
MSD	Matrix Spike Duplicate - A replicate of Matrix Spike Sample.
N	No
ND	Analyte is not detected below Method Detection Limit.

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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEF0098 [none] Justin King Canoga Park High School	Site: Reported:	LAUSD Canoga 6850 CA-27 Canoga Park, CA 91303 07/25/2023 16:57

ng/m3	Nanograms per cubic meter
NIOSH	National Institute for Occupational Safety and Health
nL/L	Nanoliters per Liter
NTU	Nephelometric Turbidity Units
Ohm-cm	Ohms per centimeter
ORO	Oil Range Organics
OSHA	Occupational Safety and Health Administration
PCB	Polychlorinated Biphenyl
ppb v	Parts per billion by volume
ppmC	Parts per million Carbon
PSU	Practical Salinity Unit
RL	Reporting Limit - The lowest concentration at which an analyte can be detected in a sample and its concentration can be reported with a specified degree of confidence, accuracy and precision. For usage at AETL, RL is equivalant to LOQ.
RPD	Relative Percent Difference
SIM	Selective Ion Monitoring
SM	Standard Method
SPLP	Synthetic Precipitation Leaching Procedure
STLC	Soluble Threshold Limit Concentration
TCLP	Toxicity Characteristic Leaching Procedure
TPH	Total Petroleum Hydrocarbons
TTLC	Total Threshold Limit Concentrations
ug/kg	Micrograms per Kilogram
ug/L	Micrograms per Liter
ug/m3	Micrograms per cubic meter
WET	Waste Extraction Test
Y	Yes
ZHE	Zero Headspace Extraction

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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July 20, 2023

Hailley Coleman
American Environmental Testing Laboratory, Inc.
2834 N. Naomi Street
Burbank, CA 91504

TEL: (818) 845-8200
FAX:

Workorder No.: N057834

RE: BEF0098.03

Attention: Hailley Coleman

Enclosed are the results for sample(s) received on July 18, 2023 by ASSET Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562) 219-7435 if I can be of further assistance to your company.

Sincerely,

for

Ferdinand Paul Lugtu
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and ASSET Laboratories - California.

CLIENT: American Environmental Testing Laborator
Project: BEF0098.03
Lab Order: N057834

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

All sample containers were received intact with proper chain of custody documentation.

Information on sample receipt conditions including discrepancies can be found in attached Sample Receipt Checklist Form.

Cooler temperature and sample preservation were verified upon receipt of samples if applicable.

Samples were analyzed within method holding time.

Analytical Comments for EPA 6020:

Matrix Spike Duplicate (MSD) recovery and RPD criteria are outside criteria for Arsenic in QC samples N057833-001A-MS/MSD possibly due to matrix interference. The associated Laboratory Control Sample (LCS) recovery was acceptable.

CLIENT: American Environmental Testing Laborator
Project: BEF0098.03
Lab Order: N057834
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N057834-001A	BEF0098-60	Soil	6/12/2023 1:21:00 PM	7/18/2023	7/20/2023

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0098-60
Lab Order:	N057834		
Project:	BEF0098.03	**Collection Date:**	6/12/2023 1:21:00 PM
Lab ID:	N057834-001	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP7_230719A	QC Batch: 100889			PrepDate:	7/19/2023	Analyst: **DJ**
Arsenic	9.9	0.50		mg/Kg	1	7/19/2023 05:09 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: American Environmental Testing Laboratory, Inc.
Work Order: N057834
Project: BEF0098.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_S_PPM

Sample ID: **MB-100889**	SampType: **MBLK**	TestCode: **6020_S_PPM**	Units: **mg/Kg**	Prep Date: **7/19/2023**	RunNo: **174027**
Client ID: **PBS**	Batch ID: **100889**	TestNo: **EPA 6020**	**EPA 3050B**	Analysis Date: **7/19/2023**	SeqNo: **5288354**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.50									

Sample ID: **LCS-100889**	SampType: **LCS**	TestCode: **6020_S_PPM**	Units: **mg/Kg**	Prep Date: **7/19/2023**	RunNo: **174027**
Client ID: **LCSS**	Batch ID: **100889**	TestNo: **EPA 6020**	**EPA 3050B**	Analysis Date: **7/19/2023**	SeqNo: **5288355**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	4.790	0.50	5.000	0	95.8	85	115				

Sample ID: **N057833-001A-MS**	SampType: **MS**	TestCode: **6020_S_PPM**	Units: **mg/Kg**	Prep Date: **7/19/2023**	RunNo: **174027**
Client ID: **ZZZZZZ**	Batch ID: **100889**	TestNo: **EPA 6020**	**EPA 3050B**	Analysis Date: **7/19/2023**	SeqNo: **5288359**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	9.714	0.50	4.990	4.534	104	75	125				

Sample ID: **N057833-001A-MSD**	SampType: **MSD**	TestCode: **6020_S_PPM**	Units: **mg/Kg**	Prep Date: **7/19/2023**	RunNo: **174027**
Client ID: **ZZZZZZ**	Batch ID: **100889**	TestNo: **EPA 6020**	**EPA 3050B**	Analysis Date: **7/19/2023**	SeqNo: **5288360**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	12.354	0.50	5.000	4.534	156	75	125	9.714	23.9	20	SR

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

N057834

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SUBCONTRACT CHAIN of CUSTODY

Sending Laboratory:

AETL
AETL, LLC. 2840 N. Naomi Street
Burbank, CA 91504
Phone: 818-845-8200
Project Manager: Hailley Coleman
Email: hcoleman@aetlab.com

Subcontracted Laboratory:

ASSET Laboratories
11110 Artesia Blvd.
Cerritos, CA 90703
Phone: (702)307-2659
Fax: (562)219-7435

Work Order: BEF0098.03 PO#SUB-35624

Analysis	Due	Expires	Comments
~~Sample ID: BEF0098-01~~ *Soil* *Sampled: 06/12/2023 08:15*			NORMAL TAT
6020-As (Arsenic, total by ICP/MS)	06/19/2023	12/09/2023 08:15	
Containers Supplied:			
~~Sample ID: BEF0098-02~~ *Soil* *Sampled: 06/12/2023 08:17*			
6020-As (Arsenic, total by ICP/MS)	06/19/2023	12/09/2023 08:17	
Containers Supplied:			
~~Sample ID: BEF0098-04~~ *Soil* *Sampled: 06/12/2023 08:25*			
6020-As (Arsenic, total by ICP/MS)	06/19/2023	12/09/2023 08:25	
Containers Supplied:			
~~Sample ID: BEF0098-05~~ *Soil* *Sampled: 06/12/2023 08:27*			
6020-As (Arsenic, total by ICP/MS)	06/19/2023	12/09/2023 08:27	
Containers Supplied:			
~~Sample ID: BEF0098-07~~ *Soil* *Sampled: 06/12/2023 08:37*			
6020-As (Arsenic, total by ICP/MS)	06/19/2023	12/09/2023 08:37	

Las Vegas
2.9°C wtt 3
GSO#: 7745

Approved by: HAILLEY COLEMAN 7/17/23
AETL Project Manager Date

Released By AETL Sample Control 7/18/23 16:10 Date — Received By Courier Date

Released By Courier 7/18/23 16:10 Date — Received By Subcontract Laboratory KIM SAN ANTONIO 7/18/23 1610 Date

KIM SAN ANTONIO 7/18/23 1700

Received 7/19/23 0936 9.6°C IR#1

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SUBCONTRACT CHAIN of CUSTODY
(Continued)

Work Order: BEF0098 (Continued)

Analysis	Due	Expires	Comments
Containers Supplied:			
Sample ID: BEF0098-60 *Soil* *Sampled: 06/12/2023 13:21*			
6020-As (Arsenic, total by ICP/MS)	06/19/2023	12/09/2023 13:21	N057834-001
Containers Supplied:			
~~**Sample ID: BEF0098-61**~~ *Soil* *Sampled: 06/12/2023 13:29*			
6020-As (Arsenic, total by ICP/MS)	06/19/2023	12/09/2023 13:29	
Containers Supplied:			
~~**Sample ID: BEF0098-62**~~ *Soil* *Sampled: 06/12/2023 13:31*			
6020-As (Arsenic, total by ICP/MS)	06/19/2023	12/09/2023 13:31	
Containers Supplied:			
~~**Sample ID: BEF0098-64**~~ *Soil* *Sampled: 06/12/2023 13:52*			
6020-As (Arsenic, total by ICP/MS)	06/19/2023	12/09/2023 13:52	
Containers Supplied:			
~~**Sample ID: BEF0098-65**~~ *Soil* *Sampled: 06/12/2023 13:54*			
6020-As (Arsenic, total by ICP/MS)	06/19/2023	12/09/2023 13:54	
Containers Supplied:			
~~**Sample ID: BEF0098-67**~~ *Soil* *Sampled: 06/12/2023 14:03*			
6020-As (Arsenic, total by ICP/MS)	06/19/2023	12/09/2023 14:03	

Low Vegr
2.9°C IR#3
GSO#: 7745

Approved by:
AETL Project Manager — Date

[signature] 7/18/23 — 16:10
Released By AETL Sample Control — Date

[signature] 7/18/23 — 16:10
Released By Courier — Date

KIM SAN ANTONIO 7/18/23 1700

Received By Courier — Date

KIM SAN ANTONIO — 7/18/23
Received By Subcontract Laboratory — Date

Yoandra Rodriguez 7/19/23 0936 — 1610
4.6°C IR#1

ASSET Laboratories

Please review the checklist below. Any NO signifies non-compliance. Any non-compliance will be noted and must be understood having an impact on the quality of the data. All tests will be performed as requested regardless of any compliance issues.

If you have any questions or further instruction, please contact our Project Coordinator at (702) 307-2659.

Cooler Received/Opened On:	7/18/2023	Workorder:	N057834
Rep sample Temp (Deg C):	4.6	IR Gun ID:	1

Temp Blank: ☐ Yes ☑ No

Carrier name: Walk-In

Last 4 digits of Tracking No.: NA Packing Material Used: None

Cooling process: ☑ Ice ☐ Ice Pack ☐ Dry Ice ☐ Other ☐ None

Sample Receipt Checklist

1. Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
2. Custody seals intact, signed, dated on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
3. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
4. Chain of custody present?	Yes ☑	No ☐	
5. Sampler's name present in COC?	Yes ☐	No ☑	
6. Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
7. Chain of custody agrees with sample labels?	Yes ☑	No ☐	
8. Samples in proper container/bottle?	Yes ☑	No ☐	
9. Sample containers intact?	Yes ☑	No ☐	
10. Sufficient sample volume for indicated test?	Yes ☑	No ☐	
11. All samples received within holding time?	Yes ☑	No ☐	
12. Temperature of rep sample or Temp Blank within acceptable limit?	Yes ☑	No ☐	NA ☐
13. Water - VOA vials have zero headspace?	Yes ☐	No ☐	NA ☑
14. Water - pH acceptable upon receipt? Example: pH > 12 for (CN,S); pH<2 for Metals	Yes ☐	No ☐	NA ☑
15. Did the bottle labels indicate correct preservatives used?	Yes ☐	No ☐	NA ☑
16. Were there Non-Conformance issues at login?	Yes ☑	No ☐	NA ☐
Was Client notified?	Yes ☐	No ☐	NA ☑

Comments: Received at Las Vegas Lab on 07/19/23 at 2.9°C, IR#3, GSO#7745.

Checklist Completed By: KS 7/19/2023

Reviewed By: for: MBC

ASSET Laboratories

WORK ORDER Summary

19-Jul-23

WorkOrder: N057834

Client ID: AETL01

Project: BEF0098.03 **QC Level:** RTNE **Date Received:** 7/18/2023 4:10 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N057834-001A	BEF0098-60	6/12/2023 1:21:00 PM	7/26/2023	Soil	EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			7/26/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057834-002A	FOLDER	7/26/2023	7/26/2023		Folder	Folder	☐	☐	☐	LAB
			7/26/2023		Folder	Folder	☐	☐	☐	LAB

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June 23, 2023

AETL Job No: BEF0111 Rev. 01
Received Date: 06/13/2023
Project Number: [none]

Parsons
100 West Walnut Street
Pasadena, CA 91124
Telephone: (626) 440-6200

Attention: Justin King

Project Name: LASUD Canoga

Site: Canoga Park High School
6850 CA-27
Canoga Park, CA 91303

Enclosed please find the results of analyses for samples which were analyzed as specified on the attached chain of custody. If you have any questions concerning this report, please do not hesitate to call.

Checked By: Hailley Coleman

Hailley Coleman
Project Manager

Approved By: Joe Sevrean

Joe Sevrean
Laboratory Director

Table of Contents

Client Project Name: Canoga Park High School Project Number: [none]
Work Order Number: BEF0111

1 Cover Letter 1
2 Sample Condition on Receipt 3
3 Chain of Custody 4
4 Cooler Receipt Forms 9
5 Case Narrative 10
6 Samples Received 11
7 Positive Hits Summary 27
8 Analytical Results 28
9 Quality Control Results 34
10 Qualifiers and Definitions 36
11 Sub Contracted Analysis 38

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Revised and Reissued
Rev. 01

Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEF0111 [none] Justin King LASUD Canoga	Site: Reported:	Canoga Park High School 6850 CA-27 Canoga Park, CA 91303 06/23/2023 10:33

Sample Condition on Receipt

Cooler ID: Default Cooler **Temperature: 5.8 °C**

Are the COCs Correct	Y		
Labels Legible	Y	Containers In Good Condition	Y
COC/Labels Agree	Y	Samples Preserved Properly	Y
Sufficient Sample Volume	Y	Sufficient Holding Time for all Tests	Y
Sample Labels intact	Y	Received on Ice	Y

Cooler ID: New Cooler **Temperature: 5.7 °C**

Are the COCs Correct	Y		
Labels Legible	Y	Containers In Good Condition	Y
COC/Labels Agree	Y	Samples Preserved Properly	Y
Sufficient Sample Volume	Y	Sufficient Holding Time for all Tests	Y
Sample Labels intact	Y	Received on Ice	Y

Cooler ID: New Cooler [1] **Temperature: 5.8 °C**

Are the COCs Correct	Y		
Labels Legible	Y	Containers In Good Condition	Y
COC/Labels Agree	Y	Samples Preserved Properly	Y
Sufficient Sample Volume	Y	Sufficient Holding Time for all Tests	Y
Sample Labels intact	Y	Received on Ice	Y

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

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TEL (888) 288-AETL (818) 845-8200 FAX (818) 845-8840 www.aetlab.com

CHAIN OF CUSTODY RECORD

111395

AETL JOB No. BEF0111

Page 1 of 5

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut St. Pasadena, CA 91124
PHONE FAX: (310) 809-5793
PROJECT NAME: LAUSD Canoga
PROJECT #:
SITE NAME AND ADDRESS: Canoga Park Highschool 6850 CA-27 Canoga Park, CA 91303
PO #:

ANALYSIS REQUESTED

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	TEST INSTRUCTIONS & COMMENTS
1	SB-39-N5-D0.5	BEF0111-01	6/13/2023	0722	Soil	1 x 9oz	NONE	X		
2	SB-39-N5-D2.0	-02		0724						Hold
3	SB-39-N5-D3.0	-03		0727						Hold
4	SB-39-N10-D0.5	-04		0737						Hold
5	SB-39-N10-D2.0	-05		0739						Hold
6	SB-39-N10-D3.0	-06		0741						Hold
7	SB-39-S5-D0.5	-07		0747				X		
8	SB-39-S5-D0.5-DUP	-08		0749				X		
9	SB-39-S5-D2.0	-09		0751						Hold
10	SB-39-S5-D3.0	-10		0753						Hold
11	SB-39-S10-D0.5	-11		0804						Hold
12	SB-39-S10-D2.0	-12		0806						Hold
13	SB-39-S10-D3.0	-13		0808						Hold
14	EQ ~~SB-39-E10-D~~									
15	SB-39-E5-D0.5	-14		0819				X		

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y/ N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: E. Salm	Signature:	Signature:
Printed Name: Edward Dabys	Printed Name:	Printed Name:
Date: 6/13/23 Time: 1500	Date: Time:	Date: Time:

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: 3.
Signature:	Signature:	Signature: AETL
Printed Name:	Printed Name:	Printed Name: Cirella Cirenga Gonsicon
Date: Time:	Date: Time:	Date: 6/13/23 Time: 15:00

TURN AROUND TIME: ☑ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED: ☐ HARD COPY ☐ PDF ☐ GEOTRACKER (GLOBAL ID) ☐ OTHER (PLEASE SPECIFY)

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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TEL (888) 288-AETL (818) 845-8200 FAX (818) 845-8840 www.aetlab.com

CHAIN OF CUSTODY RECORD

111397

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut St. Pasadena, CA 91124
PHONE / FAX: (310) 809-5793
PROJECT NAME: LAUSD Canoga
PROJECT #:
SITE NAME AND ADDRESS: Canoga Park Highschool 6850 CA-27, Canoga Park, CA 91303
PO #:
AETL JOB No. BEF0111
Page 2 of 5

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	TEST INSTRUCTIONS & COMMENTS
1	SB-39-ES-D2.0	BEF0111-15	6/13/2023	0821	Soil	1x4oz	none			Hold
2	SB-39-ES-D3.0	-16		0823						Hold
3	SB-39-E10-D0.5	-17		0831						Hold
4	SB-39-E10-D2.0	18		0833						Hold
5	SB-39-E10-D3.0	19		0835						Hold
6	SB-38-S10-D0.5	20		0851					X	
7	SB-38-S10-D2.0	21		0854						Hold
8	SB-38-S10-D3.0	22		0856						Hold
9	SB-38-N5-D0.5	23		0904					X	
10	SB-38-N5-D2.0	24		0906						Hold
11	SB-38-N5-D3.0	25		0909						Hold
12	SB-38-N10-D0.5	26		0916						Hold
13	SB-38-N10-D2.0	27		0918						Hold
14	SB-38-N10-D3.0	28		0920						Hold
15	SB-38-WS-D0.5	29	↓	0927	↓	↓	↓		X	

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS
CUSTODY SEALS Y / N / NA
RECEIVED IN GOOD COND. Y / N
PROPERLY COOLED Y / N / NA
SAMPLES INTACT Y/ N / NA
SAMPLES ACCEPTED Y / N

TURN AROUND TIME
☑ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED
☐ HARD COPY ☐ PDF ☐ GEOTRACKER (GLOBAL ID) ☐ OTHER (PLEASE SPECIFY)

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: E. Davis	Signature:	Signature:
Printed Name: Edward Davis	Printed Name:	Printed Name:
Date: 6/13/2023 Time: 1500	Date: Time:	Date: Time:
RECEIVED BY: 1.	**RECEIVED BY:** 2.	**RECEIVED BY LABORATORY:** 3.
Signature:	Signature:	Signature: AETL
Printed Name:	Printed Name:	Printed Name: Evelyn Arevalo
Date: Time:	Date: Time:	Date: 6/13/23 Time: 15:00

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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CHAIN OF CUSTODY RECORD

111801

AETL JOB No. BEF0111

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut Street Pasadena, CA 91124
PHONE / FAX: (310) 809-5793
PROJECT NAME: LAVSD Canoga
PROJECT #:
SITE NAME AND ADDRESS: Canoga Park Highschool 6850 CA 27 Canoga Park, CA 91303
PO #:

ANALYSIS REQUESTED

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	TEST INSTRUCTIONS & COMMENTS
1	SB-38-W5-D0.5-DUP	BEF0111-30	6/13/2023	0929	Soil	1 X 9oz	none		X	
2	SB-38-W5-D2.0	31		0931						Hold
3	SB-38-W5-D3.0	32		0933						Hold
4	SB-38-W10-D0.5	33		0939						Hold
5	SB-38-W10-D2.0	34		0941						Hold
6	SB-38-W10-D3.0	35		0943						Hold
7	SB-51-N5-D0.5	36		1039					X	
8	SB-51-N5-D2.0	37		1041						Hold
9	SB-51-N5-D3.0	38		1043						Hold
10	SB-51-S5-D0.5	39		1049					X	
11	SB-51-S5-D2.0	40		1051						Hold
12	SB-51-S5-D3.0	41		1053						Hold
13	SB-51-E5-D0.5	42		1102					X	
14	SB-51-E5-D2.0	43		1104						Hold
15	SB-51-E5-D3.0	44		1107						Hold

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y/ N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: [signature]	Signature:	Signature:
Printed Name: Edward Dabsys	Printed Name:	Printed Name:
Date: 6/13/2023 Time: 1500	Date: Time:	Date: Time:

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: 3.
Signature:	Signature:	Signature: [signature] AETL
Printed Name:	Printed Name:	Printed Name: Greta Pirogoosin
Date: Time:	Date: Time:	Date: 6/13/23 Time: 15:00

TURN AROUND TIME

☑ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY
☐ PDF
☐ GEOTRACKER (GLOBAL ID) _____
☐ OTHER (PLEASE SPECIFY) _____

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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A KYZER LABS COMPANY

CHAIN OF CUSTODY RECORD

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut St. Pasadena, CA 91124
PHONE / EMAIL: (310) 809-5793
PROJECT NAME: LAUSD Canoga
PROJECT #:
SITE NAME AND ADDRESS: Canoga Park Highschool 6850 CA
PO#: 37
Canoga Park, CA 91303

AETL JOB No. BEFO111

Page 4 of 5

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	TEST INSTRUCTIONS & COMMENTS
1	SB-S1-WS-D0.5	BEFO111-45	6/13/2023	1114	Soil	1 x 9oz	NONE		X	
2	SB-S1-WS-D2.0	46		1116						Hold
3	SB-S1-WS-D3.0	47		1118						Hold
4	SB-3-NWS-D0.5	48		1216				X		
5	SB-3-NWS-D0.5-DUP	49		1218				X		
6	SB-3-NWS-D2.0	50		1220						Hold
7	SB-3-NWS-D3.0	51		1222						Hold
8	SB-3-NW10-D0.5	52		1230						Hold
9	SB-3-NW10-D2.0	53		1232						Hold
10	SB-3-NW10-D3.0	54		1235						Hold
11	SB-20-S5-D0.5	55		1250						
12	SB-20-S5-D2.0	56		1252						
13	SB-20-S5-D3.0	57		1254						
14	SB-20-S10-D0.5	58		1302						
15	SB-20-S10-D2.0	59		1304						

ANALYSIS REQUESTED

TOTAL NUMBER OF CONTAINERS: 15

BILLING INFORMATION / SPECIAL INSTRUCTIONS

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:	Signature:	Signature:
Printed Name: Edward Dabsys	Printed Name:	Printed Name:
Date: 6/13/2023 Time: 1500	Date: Time:	Date: Time:
RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: 3.
Signature:	Signature:	Signature:
Printed Name:	Printed Name:	Printed Name:
Date: Time:	Date: Time:	Date: 6/13/23 Time: 15:00

TURN AROUND TIME
☐ NORMAL ☐ SAME DAY RUSH ☐ NEXT DAY RUSH
☐ 2 DAYS RUSH ☐ 3 DAYS RUSH ☐ 4 DAYS RUSH

DATA DELIVERABLE REQUIRED
☐ HARD COPY
☐ E-COPY
☐ GEOTRACKER (GLOBAL ID) _____
☐ OTHER (PLEASE SPECIFY) _____

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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CHAIN OF CUSTODY RECORD

111396

COMPANY: Parsons
PROJECT MANAGER: Justin Kang
COMPANY ADDRESS: 100 W. Walnut Street Pasadena, CA 91124
PHONE / FAX: (310) 809-5793
PROJECT NAME: LAUSD Canoga Park
PROJECT #:
SITE NAME AND ADDRESS: Canoga Park Highschool 6850 CA-27, Canoga Park, CA 91303
PO #:
AETL JOB No. BEF0111
Page 5 of 5

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1	~~SB-ES-020 E.O.~~						
2	~~SB-ES-030 E.O.~~						
3	SB-20-S10-030	BEF0111-60	6/13/2023	1307	Soil	1x4oz	none
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

ANALYSIS REQUESTED: Lead (6010B), Arsenic (6020)

TEST INSTRUCTIONS & COMMENTS: Hold

E.O.
E.O.

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y/ N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

TURN AROUND TIME

☑ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY ☐ PDF ☐ GEOTRACKER (GLOBAL ID) _____ ☐ OTHER (PLEASE SPECIFY) _____

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: E. Gabriz	Signature:	Signature:
Printed Name: Edward Dabiz	Printed Name:	Printed Name:
Date: 6/13/2023 Time: 1500	Date: Time:	Date: Time:
RECEIVED BY: 1.	**RECEIVED BY:** 2.	**RECEIVED BY LABORATORY:** 3.
Signature:	Signature:	Signature:
Printed Name:	Printed Name:	Printed Name: Teresa Cristobal
Date: Time:	Date: Time:	Date: 6/13/23 Time: 15:00

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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COOLER RECEIPT FORM

Client Name: Parsons

Project Name: Lausd Canoga Project No.:

AETL Job Number: BEF0111

Date Received: 06/13/2023 Received by: Greta G

Carrier: ☐ AETL Courier ☑ Client ☐ GSL ☐ FedEx ☐ UPS
☐Others:

Samples were received in: ☑ Cooler (1) ☐ Other (Specify):

Sample Container Temperature: 5.8 °C IR Gun S/N: 51941911MV

Type of sample containers: ☐ VOA, ☐ Glass bottles, ☑Wide mouth jars, ☐HDPE bottles, ☐ Metal sleeves, ☐ Acetate sleeves, ☐ 5035 Kit: ☐ AETL or ☐ Client, ☐ Tedlar Bags, Summa Canister: ☐ 6L, ☐ 3L, ☐ 1L, Others (Specify): _____

How are samples preserved: ☐ None, ☑ Ice, ☐ Blue Ice, ☐ Dry Ice
☑ None, ☐ HNO_3, ☐ NaOH, ☐ ZnOAc, ☐ HCl, ☐ $Na_2S_2O_3$, ☐ MeOH, ☐ $NaHSO_4$
☐ Other (Specify):

	Yes	No	N/A	Note or Comment
1. Are the COCs Correct?	✔			
2. Are Sample labels legible & indelible ink?	✔			
3. Do samples match the COC?	✔			
4. Are the required analyses clear?	✔			
5. Is there enough samples for required analysis?	✔			
6. Does cooler or samples have custody seal(s)?			✔	
7. Are sample containers in good condition?	✔			
8. Are samples preserved?	✔			
9. Are samples preserved properly for the intended analysis?	✔			
10. Are the VOAs free of headspace? See footnote.			✔	
11. Are the jars free of headspace?			✔	

* = see note below. N/A = Not Applicable

PLEASE NOTE ALL SAMPLES WILL BE DISPOSED OF 30 DAYS AFTER RECEIVING DATE. IF AETL IS INFORMED OTHERWISE, THERE WILL BE A STORAGE CHARGE PER SAMPLE PER MONTH FOR ANY SAMPLE HELD BEYOND 30 DAYS.

◯ Example maximum headspace bubble size; acceptance criteria not to exceed 5-6 mm in diameter.

For headspace bubbles exceeding 6 mm in diameter, sample receiving will tag the VOA and notify the Project Manager. The Project Manager will contact client for Analyze or Resample instructions.

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Revised and Reissued
Rev. 01

Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEF0111 [none] Justin King LASUD Canoga	Site: Reported:	Canoga Park High School 6850 CA-27 Canoga Park, CA 91303 06/23/2023 10:33

Case Narrative

The following "Sample Received" Section summarizes the samples received and associated analyses requested as specified on the enclosed chain of custody.

Results as reported by the laboratory apply only to 1) the items tested, 2) as the samples are received, and 3) the accuracy of information provided. Information supplied by the customer that may affect validity of results and may be contained in this report include Project Name/Number, Site Location, Sample Locations, Sampling Dates/Times, Sample ID, Sample Preservation, Sample Matrix, Sample Properties, Field Blanks, Field Duplicates, Field Spikes, and Site Historical Data.

Accreditation applies only to the test methods listed on each scope of accreditation held by the laboratory; certifications held by the laboratory may not apply to results supplied in this report.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

No analytical non-conformances were encountered.

Qualifiers are noted in the report.

The samples were subcontracted to Asset Laboratories for EPA 6020. Please see attached report for results.

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

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Revised and Reissued
Rev. 01

Parsons	AETL Job Number:	BEF0111	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LASUD Canoga	Reported:	06/23/2023 10:33	

Samples Received

AETL received the following samples on 06/13/2023 with the following specifications

Client ID		Sample Date
SB-39-N5-D0.5		06/13/2023 7:22
Lab ID	**Matrix**	**Quantity of Containers**
BEF0111-01	Soil	1

Analysis	Units	TAT
EPA 6010B	mg/kg	5

Client ID		Sample Date
SB-39-N5-D2.0		06/13/2023 7:24
Lab ID	**Matrix**	**Quantity of Containers**
BEF0111-02	Soil	1

Analysis	Units	TAT
Archive	N/A	0

Client ID		Sample Date
SB-39-N5-D3.0		06/13/2023 7:27
Lab ID	**Matrix**	**Quantity of Containers**
BEF0111-03	Soil	1

Analysis	Units	TAT
Archive	N/A	0

Client ID		Sample Date
SB-39-N10-D0.5		06/13/2023 7:37
Lab ID	**Matrix**	**Quantity of Containers**
BEF0111-04	Soil	1

Analysis	Units	TAT
Archive	N/A	0

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

Revised and Reissued
Rev. 01

Parsons	AETL Job Number:	BEF0111	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LASUD Canoga	Reported:	06/23/2023 10:33	

Samples Received
(Continued)

AETL received the following samples on 06/13/2023 with the following specifications

Client ID		Sample Date
SB-39-N10-D2.0		06/13/2023 7:39
Lab ID	**Matrix**	**Quantity of Containers**
BEF0111-05	Soil	1
Analysis	**Units**	**TAT**
Archive	N/A	0

Client ID		Sample Date
SB-39-N10-D3.0		06/13/2023 7:41
Lab ID	**Matrix**	**Quantity of Containers**
BEF0111-06	Soil	1
Analysis	**Units**	**TAT**
Archive	N/A	0

Client ID		Sample Date
SB-39-S5-D0.5		06/13/2023 7:47
Lab ID	**Matrix**	**Quantity of Containers**
BEF0111-07	Soil	1
Analysis	**Units**	**TAT**
EPA 6010B	mg/kg	5

Client ID		Sample Date
SB-39-S5-D0.5-DUP		06/13/2023 7:49
Lab ID	**Matrix**	**Quantity of Containers**
BEF0111-08	Soil	1
Analysis	**Units**	**TAT**
EPA 6010B	mg/kg	5

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

Parsons	AETL Job Number:	BEF0111	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LASUD Canoga	Reported:	06/23/2023 10:33	

Samples Received
(Continued)

AETL received the following samples on 06/13/2023 with the following specifications

Client ID		Sample Date
SB-39-S5-D2.0		06/13/2023 7:51
Lab ID	**Matrix**	**Quantity of Containers**
BEF0111-09	Soil	1
Analysis	**Units**	**TAT**
Archive	N/A	0

Client ID		Sample Date
SB-39-S5-D3.0		06/13/2023 7:53
Lab ID	**Matrix**	**Quantity of Containers**
BEF0111-10	Soil	1
Analysis	**Units**	**TAT**
Archive	N/A	0

Client ID		Sample Date
SB-39-S10-D0.5		06/13/2023 8:04
Lab ID	**Matrix**	**Quantity of Containers**
BEF0111-11	Soil	1
Analysis	**Units**	**TAT**
Archive	N/A	0

Client ID		Sample Date
SB-39-S10-D2.0		06/13/2023 8:06
Lab ID	**Matrix**	**Quantity of Containers**
BEF0111-12	Soil	1
Analysis	**Units**	**TAT**
Archive	N/A	0

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

Parsons	AETL Job Number:	BEF0111	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LASUD Canoga	Reported:	06/23/2023 10:33	

Samples Received
(Continued)

AETL received the following samples on 06/13/2023 with the following specifications

Client ID		Sample Date
SB-39-S10-D3.0		06/13/2023 8:08
Lab ID	**Matrix**	**Quantity of Containers**
BEF0111-13	Soil	1
Analysis	**Units**	**TAT**
Archive	N/A	0

Client ID		Sample Date
SB-39-E5-D0.5		06/13/2023 8:19
Lab ID	**Matrix**	**Quantity of Containers**
BEF0111-14	Soil	1
Analysis	**Units**	**TAT**
EPA 6010B	mg/kg	5

Client ID		Sample Date
SB-39-E5-D2.0		06/13/2023 8:21
Lab ID	**Matrix**	**Quantity of Containers**
BEF0111-15	Soil	1
Analysis	**Units**	**TAT**
Archive	N/A	0

Client ID		Sample Date
SB-39-E5-D3.0		06/13/2023 8:23
Lab ID	**Matrix**	**Quantity of Containers**
BEF0111-16	Soil	1
Analysis	**Units**	**TAT**
Archive	N/A	0

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Parsons	AETL Job Number:	BEF0111	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LASUD Canoga	Reported:	06/23/2023 10:33	

Samples Received

(Continued)

AETL received the following samples on 06/13/2023 with the following specifications

Client ID		Sample Date
SB-39-E10-D0.5		06/13/2023 8:31
Lab ID	**Matrix**	**Quantity of Containers**
BEF0111-17	Soil	1
Analysis	**Units**	**TAT**
Archive	N/A	0

Client ID		Sample Date
SB-39-E10-D2.0		06/13/2023 8:33
Lab ID	**Matrix**	**Quantity of Containers**
BEF0111-18	Soil	1
Analysis	**Units**	**TAT**
Archive	N/A	0

Client ID		Sample Date
SB-39-E10-D3.0		06/13/2023 8:35
Lab ID	**Matrix**	**Quantity of Containers**
BEF0111-19	Soil	1
Analysis	**Units**	**TAT**
Archive	N/A	0

Client ID		Sample Date
SB-38-S10-D0.5		06/13/2023 8:51
Lab ID	**Matrix**	**Quantity of Containers**
BEF0111-20	Soil	2
Analysis	**Units**	**TAT**
EPA 6020	mg/kg	5

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Parsons	AETL Job Number:	BEF0111	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LASUD Canoga	Reported:	06/23/2023 10:33	

Samples Received
(Continued)

AETL received the following samples on 06/13/2023 with the following specifications

Client ID		Sample Date
SB-38-S10-D2.0		06/13/2023 8:54
Lab ID	**Matrix**	**Quantity of Containers**
BEF0111-21	Soil	1
Analysis	**Units**	**TAT**
Archive	N/A	0

Client ID		Sample Date
SB-38-S10-D3.0		06/13/2023 8:56
Lab ID	**Matrix**	**Quantity of Containers**
BEF0111-22	Soil	1
Analysis	**Units**	**TAT**
Archive	N/A	0

Client ID		Sample Date
SB-38-N5-D0.5		06/13/2023 9:04
Lab ID	**Matrix**	**Quantity of Containers**
BEF0111-23	Soil	2
Analysis	**Units**	**TAT**
EPA 6020	mg/kg	5

Client ID		Sample Date
SB-38-N5-D2.0		06/13/2023 9:06
Lab ID	**Matrix**	**Quantity of Containers**
BEF0111-24	Soil	1
Analysis	**Units**	**TAT**
Archive	N/A	0

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Parsons	AETL Job Number:	BEF0111	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LASUD Canoga	Reported:	06/23/2023 10:33	

Samples Received
(Continued)

AETL received the following samples on 06/13/2023 with the following specifications

Client ID		Sample Date
SB-38-N5-D3.0		06/13/2023 9:09
Lab ID	**Matrix**	**Quantity of Containers**
BEF0111-25	Soil	1
Analysis	**Units**	**TAT**
Archive	N/A	0

Client ID		Sample Date
SB-38-N10-D0.5		06/13/2023 9:16
Lab ID	**Matrix**	**Quantity of Containers**
BEF0111-26	Soil	1
Analysis	**Units**	**TAT**
Archive	N/A	0

Client ID		Sample Date
SB-38-N10-D2.0		06/13/2023 9:18
Lab ID	**Matrix**	**Quantity of Containers**
BEF0111-27	Soil	1
Analysis	**Units**	**TAT**
Archive	N/A	0

Client ID		Sample Date
SB-38-N10-D3.0		06/13/2023 9:20
Lab ID	**Matrix**	**Quantity of Containers**
BEF0111-28	Soil	1
Analysis	**Units**	**TAT**
Archive	N/A	0

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Parsons	AETL Job Number:	BEF0111	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LASUD Canoga	Reported:	06/23/2023 10:33	

Samples Received
(Continued)

AETL received the following samples on 06/13/2023 with the following specifications

Client ID		Sample Date
SB-38-W5-D0.5		06/13/2023 9:27
Lab ID	**Matrix**	**Quantity of Containers**
BEF0111-29	Soil	2

Analysis	Units	TAT
EPA 6020	mg/kg	5

Client ID		Sample Date
SB-38-W5-D0.5-DUP		06/13/2023 9:29
Lab ID	**Matrix**	**Quantity of Containers**
BEF0111-30	Soil	2

Analysis	Units	TAT
EPA 6020	mg/kg	5

Client ID		Sample Date
SB-38-W5-D2.0		06/13/2023 9:31
Lab ID	**Matrix**	**Quantity of Containers**
BEF0111-31	Soil	1

Analysis	Units	TAT
Archive	N/A	0

Client ID		Sample Date
SB-38-W5-D3.0		06/13/2023 9:33
Lab ID	**Matrix**	**Quantity of Containers**
BEF0111-32	Soil	1

Analysis	Units	TAT
Archive	N/A	0

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Parsons	AETL Job Number:	BEF0111	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LASUD Canoga	Reported:	06/23/2023 10:33	

Samples Received
(Continued)

AETL received the following samples on 06/13/2023 with the following specifications

Client ID		Sample Date
SB-38-W10-D0.5		06/13/2023 9:39
Lab ID	**Matrix**	**Quantity of Containers**
BEF0111-33	Soil	1
Analysis	**Units**	**TAT**
Archive	N/A	0

Client ID		Sample Date
SB-38-W10-D2.0		06/13/2023 9:41
Lab ID	**Matrix**	**Quantity of Containers**
BEF0111-34	Soil	1
Analysis	**Units**	**TAT**
Archive	N/A	0

Client ID		Sample Date
SB-38-W10-D3.0		06/13/2023 9:43
Lab ID	**Matrix**	**Quantity of Containers**
BEF0111-35	Soil	1
Analysis	**Units**	**TAT**
Archive	N/A	0

Client ID		Sample Date
SB-51-N5-D0.5		06/13/2023 10:39
Lab ID	**Matrix**	**Quantity of Containers**
BEF0111-36	Soil	2
Analysis	**Units**	**TAT**
EPA 6020	mg/kg	5

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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEF0111 [none] Justin King LASUD Canoga	Site: Reported:	Canoga Park High School 6850 CA-27 Canoga Park, CA 91303 06/23/2023 10:33

Samples Received
(Continued)

AETL received the following samples on 06/13/2023 with the following specifications

Client ID		Sample Date
SB-51-N5-D2.0		06/13/2023 10:41
Lab ID	**Matrix**	**Quantity of Containers**
BEF0111-37	Soil	1
Analysis	**Units**	**TAT**
Archive	N/A	0

Client ID		Sample Date
SB-51-N5-D3.0		06/13/2023 10:43
Lab ID	**Matrix**	**Quantity of Containers**
BEF0111-38	Soil	1
Analysis	**Units**	**TAT**
Archive	N/A	0

Client ID		Sample Date
SB-51-S5-D0.5		06/13/2023 10:49
Lab ID	**Matrix**	**Quantity of Containers**
BEF0111-39	Soil	2
Analysis	**Units**	**TAT**
EPA 6020	mg/kg	5

Client ID		Sample Date
SB-51-S5-D2.0		06/13/2023 10:51
Lab ID	**Matrix**	**Quantity of Containers**
BEF0111-40	Soil	1
Analysis	**Units**	**TAT**
Archive	N/A	0

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Parsons	AETL Job Number:	BEF0111	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LASUD Canoga	Reported:	06/23/2023 10:33	

Samples Received

(Continued)

AETL received the following samples on 06/13/2023 with the following specifications

Client ID		Sample Date
SB-51-S5-D3.0		06/13/2023 10:53
Lab ID	**Matrix**	**Quantity of Containers**
BEF0111-41	Soil	1
Analysis	**Units**	**TAT**
Archive	N/A	0

Client ID		Sample Date
SB-51-E5-D0.5		06/13/2023 11:02
Lab ID	**Matrix**	**Quantity of Containers**
BEF0111-42	Soil	2
Analysis	**Units**	**TAT**
EPA 6020	mg/kg	5

Client ID		Sample Date
SB-51-E5-D2.0		06/13/2023 11:04
Lab ID	**Matrix**	**Quantity of Containers**
BEF0111-43	Soil	1
Analysis	**Units**	**TAT**
Archive	N/A	0

Client ID		Sample Date
SB-51-E5-D3.0		06/13/2023 11:07
Lab ID	**Matrix**	**Quantity of Containers**
BEF0111-44	Soil	1
Analysis	**Units**	**TAT**
Archive	N/A	0

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Parsons	AETL Job Number:	BEF0111	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LASUD Canoga	Reported:	06/23/2023 10:33	

Samples Received

(Continued)

AETL received the following samples on 06/13/2023 with the following specifications

Client ID		Sample Date
SB-51-W5-D0.5		06/13/2023 11:14
Lab ID	**Matrix**	**Quantity of Containers**
BEF0111-45	Soil	2

Analysis	Units	TAT
EPA 6020	mg/kg	5

Client ID		Sample Date
SB-51-W5-D2.0		06/13/2023 11:16
Lab ID	**Matrix**	**Quantity of Containers**
BEF0111-46	Soil	1

Analysis	Units	TAT
Archive	N/A	0

Client ID		Sample Date
SB-51-W5-D3.0		06/13/2023 11:18
Lab ID	**Matrix**	**Quantity of Containers**
BEF0111-47	Soil	1

Analysis	Units	TAT
Archive	N/A	0

Client ID		Sample Date
SB-3-NW5-D0.5		06/13/2023 12:16
Lab ID	**Matrix**	**Quantity of Containers**
BEF0111-48	Soil	1

Analysis	Units	TAT
EPA 6010B	mg/kg	5

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Parsons	AETL Job Number:	BEF0111	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LASUD Canoga	Reported:	06/23/2023 10:33	

Samples Received

(Continued)

AETL received the following samples on 06/13/2023 with the following specifications

Client ID		Sample Date
SB-3-NW5-D0.5-DUP		06/13/2023 12:18
Lab ID	**Matrix**	**Quantity of Containers**
BEF0111-49	Soil	1

Analysis	Units	TAT
EPA 6010B	mg/kg	5

Client ID		Sample Date
SB-3-NW5-D2.0		06/13/2023 12:20
Lab ID	**Matrix**	**Quantity of Containers**
BEF0111-50	Soil	1

Analysis	Units	TAT
Archive	N/A	0

Client ID		Sample Date
SB-3-NW5-D3.0		06/13/2023 12:22
Lab ID	**Matrix**	**Quantity of Containers**
BEF0111-51	Soil	1

Analysis	Units	TAT
Archive	N/A	0

Client ID		Sample Date
SB-3-NW10-D0.5		06/13/2023 12:30
Lab ID	**Matrix**	**Quantity of Containers**
BEF0111-52	Soil	1

Analysis	Units	TAT
Archive	N/A	0

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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEF0111 [none] Justin King LASUD Canoga	Site: Reported:	Canoga Park High School 6850 CA-27 Canoga Park, CA 91303 06/23/2023 10:33

Samples Received
(Continued)

AETL received the following samples on 06/13/2023 with the following specifications

Client ID		Sample Date
SB-3-NW10-D2.0		06/13/2023 12:32
Lab ID	**Matrix**	**Quantity of Containers**
BEF0111-53	Soil	1
Analysis	**Units**	**TAT**
Archive	N/A	0

Client ID		Sample Date
SB-3-NW10-D3.0		06/13/2023 12:35
Lab ID	**Matrix**	**Quantity of Containers**
BEF0111-54	Soil	1
Analysis	**Units**	**TAT**
Archive	N/A	0

Client ID		Sample Date
SB-20-S5-D0.5		06/13/2023 12:50
Lab ID	**Matrix**	**Quantity of Containers**
BEF0111-55	Soil	1
Analysis	**Units**	**TAT**
Archive	N/A	0

Client ID		Sample Date
SB-20-S5-D2.0		06/13/2023 12:52
Lab ID	**Matrix**	**Quantity of Containers**
BEF0111-56	Soil	1
Analysis	**Units**	**TAT**
Archive	N/A	0

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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEF0111 [none] Justin King LASUD Canoga	Site: Reported:	Canoga Park High School 6850 CA-27 Canoga Park, CA 91303 06/23/2023 10:33

Samples Received
(Continued)

AETL received the following samples on 06/13/2023 with the following specifications

Client ID		Sample Date
SB-20-S5-D3.0		06/13/2023 12:54
Lab ID	**Matrix**	**Quantity of Containers**
BEF0111-57	Soil	1
Analysis	**Units**	**TAT**
Archive	N/A	0

Client ID		Sample Date
SB-20-S10-D0.5		06/13/2023 13:02
Lab ID	**Matrix**	**Quantity of Containers**
BEF0111-58	Soil	1
Analysis	**Units**	**TAT**
Archive	N/A	0

Client ID		Sample Date
SB-20-S10-D2.0		06/13/2023 13:04
Lab ID	**Matrix**	**Quantity of Containers**
BEF0111-59	Soil	1
Analysis	**Units**	**TAT**
Archive	N/A	0

Client ID		Sample Date
SB-20-S10-D3.0		06/13/2023 13:07
Lab ID	**Matrix**	**Quantity of Containers**
BEF0111-60	Soil	1
Analysis	**Units**	**TAT**
Archive	N/A	0

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2840 North Naomi Street Burbank, CA 91504 • ELAP# 1541 & 2402 • LACSD# 10181
TEL (888) 288-AETL • (818) 845-8200 • www.aetlab.com

Revised and Reissued
Rev. 01

Parsons	AETL Job Number:	BEF0111	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LASUD Canoga	Reported:	06/23/2023 10:33	

Total Number of Samples received: **60**

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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Rev. 01

Parsons	AETL Job Number:	BEF0111	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LASUD Canoga	Reported:	06/23/2023 10:33	

Positive Hits Summary

Lab ID	Client ID				Sampled
BEF0111-01	SB-39-N5-D0.5				06/13/2023 07:22
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	159		mg/kg	06/20/2023 15:16

Lab ID	Client ID				Sampled
BEF0111-07	SB-39-S5-D0.5				06/13/2023 07:47
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	24.2		mg/kg	06/20/2023 15:19

Lab ID	Client ID				Sampled
BEF0111-08	SB-39-S5-D0.5-DUP				06/13/2023 07:49
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	24.9		mg/kg	06/20/2023 15:21

Lab ID	Client ID				Sampled
BEF0111-14	SB-39-E5-D0.5				06/13/2023 08:19
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	13.1		mg/kg	06/20/2023 15:24

Lab ID	Client ID				Sampled
BEF0111-48	SB-3-NW5-D0.5				06/13/2023 12:16
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	77.9		mg/kg	06/20/2023 15:27

Lab ID	Client ID				Sampled
BEF0111-49	SB-3-NW5-D0.5-DUP				06/13/2023 12:18
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	59.3		mg/kg	06/20/2023 15:35

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Parsons	AETL Job Number:	BEF0111	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LASUD Canoga	Reported:	06/23/2023 10:33	

Analytical Results

Client ID: **SB-39-N5-D0.5**
Lab ID: **BEF0111-01 (Soil)** **Sampled:** **06/13/23 7:22**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Lead	**159**		1	0.550	5.00	mg/kg	06/14/23 15:05	06/20/23 15:16	B3F0176	LC	3050B

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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEF0111 [none] Justin King LASUD Canoga	Site: Reported:	Canoga Park High School 6850 CA-27 Canoga Park, CA 91303 06/23/2023 10:33	

Analytical Results

Client ID: **SB-39-S5-D0.5**
Lab ID: **BEF0111-07 (Soil)** **Sampled:** **06/13/23 7:47**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Lead	**24.2**		1	0.550	5.00	mg/kg	06/14/23 15:05	06/20/23 15:19	B3F0176	LC	3050B

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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEF0111 [none] Justin King LASUD Canoga	Site: Reported:	Canoga Park High School 6850 CA-27 Canoga Park, CA 91303 06/23/2023 10:33	

Analytical Results

Client ID: **SB-39-S5-D0.5-DUP**
Lab ID: **BEF0111-08 (Soil)** **Sampled:** **06/13/23 7:49**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Lead	**24.9**		1	0.550	5.00	mg/kg	06/14/23 15:05	06/20/23 15:21	B3F0176	LC	3050B

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Rev. 01

Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEF0111 [none] Justin King LASUD Canoga	Site: Reported:	Canoga Park High School 6850 CA-27 Canoga Park, CA 91303 06/23/2023 10:33	

Analytical Results

Client ID: **SB-39-E5-D0.5**
Lab ID: **BEF0111-14 (Soil)** **Sampled:** **06/13/23 8:19**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Lead	**13.1**		1	0.550	5.00	mg/kg	06/14/23 15:05	06/20/23 15:24	B3F0176	LC	3050B

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AMERICAN ENVIRONMENTAL TESTING LABORATORY
2840 North Naomi Street Burbank, CA 91504 • ELAP# 1541 & 2402 • LACSD# 10181
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Revised and Reissued
Rev. 01

Parsons	AETL Job Number:	BEF0111	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LASUD Canoga	Reported:	06/23/2023 10:33	

Analytical Results

Client ID: **SB-3-NW5-D0.5**
Lab ID: **BEF0111-48 (Soil)** **Sampled:** **06/13/23 12:16**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Lead	**77.9**		1	0.550	5.00	mg/kg	06/14/23 15:05	06/20/23 15:27	B3F0176	LC	3050B

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Revised and Reissued
Rev. 01

Parsons	AETL Job Number:	BEF0111	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LASUD Canoga	Reported:	06/23/2023 10:33	

Analytical Results

Client ID: **SB-3-NW5-D0.5-DUP**
Lab ID: **BEF0111-49 (Soil)** **Sampled:** **06/13/23 12:18**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Lead	**59.3**		1	0.550	5.00	mg/kg	06/14/23 15:05	06/20/23 15:35	B3F0176	LC	3050B

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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEF0111 [none] Justin King LASUD Canoga	Site: Reported:	Canoga Park High School 6850 CA-27 Canoga Park, CA 91303 06/23/2023 10:33	

Quality Control Results

Metals Total (EPA 6010B)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3F0176 - 3050B					**Prepared: 06/14/2023 15:05**						
Method Blank (B3F0176-BLK1)					**Analyzed: 06/20/2023 14:50**						
Lead	ND	0.550	5.00	mg/kg							

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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEF0111 [none] Justin King LASUD Canoga	Site: Reported:	Canoga Park High School 6850 CA-27 Canoga Park, CA 91303 06/23/2023 10:33	

Quality Control Results

Metals Total (EPA 6010B)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3F0176 - 3050B (Continued)					**Prepared: 06/14/2023 15:05**						
LCS (B3F0176-BS1)					**Analyzed: 06/20/2023 14:53**						
Lead	98.5	0.550	5.00	mg/kg	98.0		100	75-125			
LCSD (B3F0176-BSD1)					**Analyzed: 06/20/2023 15:02**						
Lead	105	0.550	5.00	mg/kg	99.0		106	75-125	6.17	15	
Duplicate (B3F0176-DUP1)		**Source: BEF0115-01**			**Analyzed: 06/20/2023 15:07**						
Lead	1.53	0.550	5.00	mg/kg		1.29			17.1	20	J
Matrix Spike (B3F0176-MS1)		**Source: BEF0115-01**			**Analyzed: 06/20/2023 15:10**						
Lead	96.6	0.550	5.00	mg/kg	99.0	1.29	96.3	75-125			
Matrix Spike Dup (B3F0176-MSD1)		**Source: BEF0115-01**			**Analyzed: 06/20/2023 15:13**						
Lead	101	0.550	5.00	mg/kg	98.0	1.29	101	75-125	3.93	15	

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Parsons	AETL Job Number:	BEF0111	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LASUD Canoga	Reported:	06/23/2023 10:33	

Qualifiers and Definitions

Item	Qualifiers
J	Analyte was detected. However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Reporting Limit (RL).

Item	Definitions
% wt	Percent Weight
%REC	Percent Recovery
°F	Degrees Fahrenheit
AETL	American Environmental Testing Laboratory, LLC
C	Carbon
CARB	California Air Resources Board
COC	Chain of Custody
Cresols	3-methylphenol/4-methylphenol coelute and cannot be chromatographically separated. Due to this coeluting isomer pair phenomenon, the laboratory uses a single cresol (4-methylphenol) as calibration standard for 3-methylphenol/4-methylphenol.
CRM	Certified Reference Material
DI	Deionized Water
DPD	Department of Planning and Development
DRO	Diesel Range Organics
Dup	Duplicate
ELAP	Environmental Laboratory Accreditation Program
EPA	Environmental Protection Agency
GC/FID	Gas Chromatography Flame Ionization Detection
GRO	Gasoline Range Organics
HC	Hydrocarbon
HEM	Hexane Extractable Material
HMU	Hazardous Material Unit
ICP/MS	Inductively Coupled Plasma Mass Spectrometry
LACSD	Los Angeles County Sanitation Districts
LCS	Laboratory Control Sample - A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes.
LCSD	Laboratory Control Sample Duplicate - A replicate of Laboratory Control Sample.
LOQ	Limit of Quantitation
MDL	Method Detection Limit - The minimum measured concentration of a substance that can be reported with 99% confidence. MDL is statistically derived number which is specific for each instrument, each method and each compound.
mg/kg	Miligrams per Kilogram
mg/L	Miligrams per Liter
ml/L/hr	Milliliter per Liter per Hour
MRO	Motor oil Range Organics

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Parsons	AETL Job Number:	BEF0111	Site:	Canoga Park High School
100 West Walnut Street	Project Number:	[none]		6850 CA-27
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303
	Project Name:	LASUD Canoga	Reported:	06/23/2023 10:33

MS	Matrix Spike - A sample prepared, taken through all sample preparation and analytical steps of the procedure and analyzed as an independent test results.
MSD	Matrix Spike Duplicate - A replicate of Matrix Spike Sample.
N	No
ND	Analyte is not detected below Method Detection Limit.
ng/m3	Nanograms per cubic meter
NIOSH	National Institute for Occupational Safety and Health
nL/L	Nanoliters per Liter
NTU	Nephelometric Turbidity Units
Ohm-cm	Ohms per centimeter
ORO	Oil Range Organics
OSHA	Occupational Safety and Health Administration
PCB	Polychlorinated Biphenyl
ppb v	Parts per billion by volume
ppmC	Parts per million Carbon
PSU	Practical Salinity Unit
RL	Reporting Limit - The lowest concentration at which an analyte can be detected in a sample and its concentration can be reported with a specified degree of confidence, accuracy and precision. For usage at AETL, RL is equivalant to LOQ.
RPD	Relative Percent Difference
SIM	Selective Ion Monitoring
SM	Standard Method
SPLP	Synthetic Precipitation Leaching Procedure
STLC	Soluble Threshold Limit Concentration
TCLP	Toxicity Characteristic Leaching Procedure
TPH	Total Petroleum Hydrocarbons
TTLC	Total Threshold Limit Concentrations
ug/kg	Micrograms per Kilogram
ug/L	Micrograms per Liter
ug/m3	Micrograms per cubic meter
WET	Waste Extraction Test
Y	Yes
ZHE	Zero Headspace Extraction

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June 22, 2023

Hailley Coleman
American Environmental Testing Laboratory, Inc.
2834 N. Naomi Street
Burbank, CA 91504

TEL: (818) 845-8200
FAX:

Workorder No.: N057163

RE: BEF0111

Attention: Hailley Coleman

Enclosed are the results for sample(s) received on June 14, 2023 by ASSET Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562) 219-7435 if I can be of further assistance to your company.

Sincerely,

for

Ferdinand Paul Lugtu
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and ASSET Laboratories - California.

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

All sample containers were received intact with proper chain of custody documentation.

Information on sample receipt conditions including discrepancies can be found in attached Sample Receipt Checklist Form.

Cooler temperature and sample preservation were verified upon receipt of samples if applicable.

Samples were analyzed within method holding time.

Analytical Comments for EPA 6020:

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside criteria in QC samples N057163-001A-MS/MSD since the analyte concentration in the sample is disproportionate to the spike level. The associated Laboratory Control Sample (LCS) recovery was acceptable.

CLIENT: American Environmental Testing Laborator
Project: BEF0111
Lab Order: N057163
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N057163-001A	BEF0111-20	Soil	6/13/2023 8:51:00 AM	6/14/2023	6/22/2023
N057163-002A	BEF0111-23	Soil	6/13/2023 9:04:00 AM	6/14/2023	6/22/2023
N057163-003A	BEF0111-29	Soil	6/13/2023 9:27:00 AM	6/14/2023	6/22/2023
N057163-004A	BEF0111-30	Soil	6/13/2023 9:29:00 AM	6/14/2023	6/22/2023
N057163-005A	BEF0111-36	Soil	6/13/2023 10:39:00 AM	6/14/2023	6/22/2023
N057163-006A	BEF0111-39	Soil	6/13/2023 10:49:00 AM	6/14/2023	6/22/2023
N057163-007A	BEF0111-42	Soil	6/13/2023 11:02:00 AM	6/14/2023	6/22/2023
N057163-008A	BEF0111-45	Soil	6/13/2023 11:14:00 AM	6/14/2023	6/22/2023

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0111-20
Lab Order:	N057163		
Project:	BEF0111	**Collection Date:**	6/13/2023 8:51:00 AM
Lab ID:	N057163-001	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230615B	QC Batch: 100301			PrepDate:	6/15/2023	Analyst: **DJ**
Arsenic	130	2.5		mg/Kg	5	6/15/2023 05:52 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0111-23
Lab Order:	N057163		
Project:	BEF0111	**Collection Date:**	6/13/2023 9:04:00 AM
Lab ID:	N057163-002	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230615B	QC Batch: 100301			PrepDate:	6/15/2023	Analyst: **DJ**
Arsenic	85	0.50		mg/Kg	1	6/15/2023 06:11 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0111-29
Lab Order:	N057163		
Project:	BEF0111	**Collection Date:**	6/13/2023 9:27:00 AM
Lab ID:	N057163-003	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230615B	QC Batch: 100301			PrepDate:	6/15/2023	Analyst: **DJ**
Arsenic	150	2.5		mg/Kg	5	6/15/2023 07:30 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0111-30
Lab Order:	N057163		
Project:	BEF0111	**Collection Date:**	6/13/2023 9:29:00 AM
Lab ID:	N057163-004	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230615B	QC Batch: 100301			PrepDate:	6/15/2023	Analyst: **DJ**
Arsenic	170	2.5		mg/Kg	5	6/15/2023 10:22 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0111-36
Lab Order:	N057163		
Project:	BEF0111	**Collection Date:**	6/13/2023 10:39:00 AM
Lab ID:	N057163-005	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230615B	QC Batch: 100301			PrepDate:	6/15/2023	Analyst: **DJ**
Arsenic	24	0.50		mg/Kg	1	6/15/2023 06:38 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0111-39
Lab Order:	N057163		
Project:	BEF0111	**Collection Date:**	6/13/2023 10:49:00 AM
Lab ID:	N057163-006	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230615B	QC Batch: 100301			PrepDate:	6/15/2023	Analyst: **DJ**
Arsenic	36	0.50		mg/Kg	1	6/15/2023 06:43 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0111-42
Lab Order:	N057163		
Project:	BEF0111	**Collection Date:**	6/13/2023 11:02:00 AM
Lab ID:	N057163-007	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230615B	QC Batch: 100301			PrepDate:	6/15/2023	Analyst: **DJ**
Arsenic	33	0.50		mg/Kg	1	6/15/2023 06:48 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0111-45
Lab Order:	N057163		
Project:	BEF0111	**Collection Date:**	6/13/2023 11:14:00 AM
Lab ID:	N057163-008	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230615B	QC Batch: 100301			PrepDate:	6/15/2023	Analyst: **DJ**
Arsenic	94	2.5		mg/Kg	5	6/15/2023 10:26 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: American Environmental Testing Laboratory, Inc.
Work Order: N057163
Project: BEF0111

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_S_PPM

Sample ID: **MB-100301**	SampType: **MBLK**	TestCode: **6020_S_PPM**	Units: **mg/Kg**	Prep Date: **6/15/2023**	RunNo: **173249**
Client ID: **PBS**	Batch ID: **100301**	TestNo: **EPA 6020**	**EPA 3050B**	Analysis Date: **6/15/2023**	SeqNo: **5250438**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.50									

Sample ID: **LCS-100301**	SampType: **LCS**	TestCode: **6020_S_PPM**	Units: **mg/Kg**	Prep Date: **6/15/2023**	RunNo: **173249**
Client ID: **LCSS**	Batch ID: **100301**	TestNo: **EPA 6020**	**EPA 3050B**	Analysis Date: **6/15/2023**	SeqNo: **5250439**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	4.940	0.50	5.000	0	98.8	85	115				

Sample ID: **N057163-001A-MS**	SampType: **MS**	TestCode: **6020_S_PPM**	Units: **mg/Kg**	Prep Date: **6/15/2023**	RunNo: **173249**
Client ID: **ZZZZZZ**	Batch ID: **100301**	TestNo: **EPA 6020**	**EPA 3050B**	Analysis Date: **6/15/2023**	SeqNo: **5250456**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	109.782	2.5	4.990	132.2	-449	75	125				S

Sample ID: **N057163-001A-MSD**	SampType: **MSD**	TestCode: **6020_S_PPM**	Units: **mg/Kg**	Prep Date: **6/15/2023**	RunNo: **173249**
Client ID: **ZZZZZZ**	Batch ID: **100301**	TestNo: **EPA 6020**	**EPA 3050B**	Analysis Date: **6/15/2023**	SeqNo: **5250457**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	119.597	2.5	5.008	132.2	-252	75	125	109.8	8.56	20	S

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

57163

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SUBCONTRACT CHAIN of CUSTODY

IR# 1 5.8°C

Sending Laboratory:

AETL
AETL, LLC. 2840 N. Naomi Street
Burbank, CA 91504
Phone: 818-845-8200

Project Manager: Hailley Coleman
Email: hcoleman@aetlab.com

Subcontracted Laboratory:

ASSET Laboratories
11110 Artesia Blvd.
Cerritos, CA 90703
Phone: (702)307-2659
Fax: (562)219-7435

Work Order: BEF0111

PO #SUB-34493

Analysis	Due	Expires	Comments
Sample ID: BEF0111-20 ***Soil*** ***Sampled: 06/13/2023 08:51***			5-DAY TAT
6020-As (Arsenic, total by ICP/MS)	06/20/2023	12/10/2023 08:51	
Containers Supplied:			N057163-001
Sample ID: BEF0111-23 ***Soil*** ***Sampled: 06/13/2023 09:04***			
6020-As (Arsenic, total by ICP/MS)	06/20/2023	12/10/2023 09:04	
Containers Supplied:			-002
Sample ID: BEF0111-29 ***Soil*** ***Sampled: 06/13/2023 09:27***			
6020-As (Arsenic, total by ICP/MS)	06/20/2023	12/10/2023 09:27	
Containers Supplied:			-003
Sample ID: BEF0111-30 ***Soil*** ***Sampled: 06/13/2023 09:29***			
6020-As (Arsenic, total by ICP/MS)	06/20/2023	12/10/2023 09:29	
Containers Supplied:			-004
Sample ID: BEF0111-36 ***Soil*** ***Sampled: 06/13/2023 10:39***			
6020-As (Arsenic, total by ICP/MS)	06/20/2023	12/10/2023 10:39	-005

Approved by: HAILLEY COLEMAN — 6/14/23
AETL Project Manager — Date

Released By AETL Sample Control — 6/14/23 503 — Date

KIM VANANTONIO — Received By Courier — 6/14/23 1504 — Date

Released By Courier — Date

Received By Subcontract Laboratory — 6/15/23 8:42 am — Date

LV 2.3°C / IR#3
6252045

AMERICAN ENVIRONMENTAL TESTING LABORATORY, LLC
2840 North Naomi Street, Burbank, CA 91504 • ELAP# 1541 • LACSD# 10181
Telephone (888) 288-AETL • (818) 845-8200 • www.aetlab.com

SUBCONTRACT CHAIN of CUSTODY
(Continued)

Work Order: BEF0111 (Continued)

Analysis	Due	Expires	Comments
Containers Supplied:			
Sample ID: BEF0111-39 ***Soil*** ***Sampled: 06/13/2023 10:49***			
6020-As (Arsenic, total by ICP/MS)	06/20/2023	12/10/2023 10:49	
Containers Supplied:			N057163-006
Sample ID: BEF0111-42 ***Soil*** ***Sampled: 06/13/2023 11:02***			
6020-As (Arsenic, total by ICP/MS)	06/20/2023	12/10/2023 11:02	
Containers Supplied:			-007
Sample ID: BEF0111-45 ***Soil*** ***Sampled: 06/13/2023 11:14***			
6020-As (Arsenic, total by ICP/MS)	06/20/2023	12/10/2023 11:14	
Containers Supplied:			-008

Approved by:

AETL Project Manager — Date

Hrag B. — Released By AETL Sample Control — 6/14/13 1503 — Date

KIM SAN ANTONIO — Received By Courier — 6/14/23 1503 — Date

Released By Courier — Date

Marc de la Campa — Received By Subcontract Laboratory — 6/15/23 8:42 am — Date

LV 2.3°C IR#3 GLS 0045

ASSET Laboratories

Please review the checklist below. Any NO signifies non-compliance. Any non-compliance will be noted and must be understood as having an impact on the quality of the data. All tests will be performed as requested regardless of any compliance issues.

If you have any questions or further instruction, please contact our Project Coordinator at (702) 307-2659.

Cooler Received/Opened On:	6/14/2023	Workorder:	N057163
Rep sample Temp (Deg C):	5.8	IR Gun ID:	1
Temp Blank:	☐ Yes ☑ No		
Carrier name:	Walk-In		
Last 4 digits of Tracking No.:	NA	Packing Material Used:	None
Cooling process:	☑ Ice ☐ Ice Pack ☐ Dry Ice ☐ Other ☐ None		

Sample Receipt Checklist

1. Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
2. Custody seals intact, signed, dated on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
3. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
4. Chain of custody present?	Yes ☑	No ☐	
5. Sampler's name present in COC?	Yes ☐	No ☑	
6. Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
7. Chain of custody agrees with sample labels?	Yes ☑	No ☐	
8. Samples in proper container/bottle?	Yes ☑	No ☐	
9. Sample containers intact?	Yes ☑	No ☐	
10. Sufficient sample volume for indicated test?	Yes ☑	No ☐	
11. All samples received within holding time?	Yes ☑	No ☐	
12. Temperature of rep sample or Temp Blank within acceptable limit?	Yes ☑	No ☐	NA ☐
13. Water - VOA vials have zero headspace?	Yes ☐	No ☐	NA ☑
14. Water - pH acceptable upon receipt? Example: pH > 12 for (CN,S); pH<2 for Metals	Yes ☐	No ☐	NA ☑
15. Did the bottle labels indicate correct preservatives used?	Yes ☐	No ☐	NA ☑
16. Were there Non-Conformance issues at login?	Yes ☑	No ☐	NA ☐
Was Client notified?	Yes ☐	No ☐	NA ☑

Comments: Received at Las Vegas Lab on 6/15/2023 at 2.3°C, IR#3, via GLS#2045

Checklist Completed By: FOR MR 6/15/2023

Reviewed By: N

ASSET Laboratories

WORK ORDER Summary

15-Jun-23

WorkOrder: N057163

Client ID: AETL01

Project: BEF0111 **QC Level:** RTNE **Date Received:** 6/14/2023 3:05 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N057163-001A	BEF0111-20	6/13/2023 8:51:00 AM	6/22/2023	Soil	EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			6/22/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057163-002A	BEF0111-23	6/13/2023 9:04:00 AM	6/22/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			6/22/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057163-003A	BEF0111-29	6/13/2023 9:27:00 AM	6/22/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			6/22/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057163-004A	BEF0111-30	6/13/2023 9:29:00 AM	6/22/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			6/22/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057163-005A	BEF0111-36	6/13/2023 10:39:00 AM	6/22/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			6/22/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057163-006A	BEF0111-39	6/13/2023 10:49:00 AM	6/22/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			6/22/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057163-007A	BEF0111-42	6/13/2023 11:02:00 AM	6/22/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			6/22/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057163-008A	BEF0111-45	6/13/2023 11:14:00 AM	6/22/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			6/22/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057163-009A	FOLDER	6/22/2023	6/22/2023		Folder	Folder	☐	☐	☐	LAB
			6/22/2023		Folder	Folder	☐	☐	☐	LAB

GLS.

800-322-5555
www.gls-us.com

Ship From
ASSET LABORATORIES
THAD MALIT
11110 ARTESIA BLVD. SUITE B
CERRITOS, CA 90703

Ship To
ASSET LABORATORIES
MARLON CARTIN
3151 W. POST RD.,
LAS VEGAS, NV 89118

COD: $0.00
Weight: 0 lb(s)
Reference:

Delivery Instructions:
HOLD FOR PICKUP
Signature Type: STANDARD

Tracking #: 559592045

PDS

2.3°C 6/15/23 8:42am

LAS VEGAS

C89102A

88152733

LVS NV891-A 8

Print Date: 6/14/2023 4:18 PM

Print Label ☐ Print All Finish 1 of 1

LABEL INSTRUCTIONS:

Do not copy or reprint this label for additional shipments - each package must have a unique barcode.
Step 1: Use the "Print Label" button on this page to print the shipping label on a laser or inkjet printer.
Step 2: Fold this page in half.
Step 3: Securely attach this label to your package and do not cover the barcode.

TERMS AND CONDITIONS:

By giving us your shipment to deliver, you agree to all of the General Logistics Systems US, Inc. (GLS) service terms & conditions including, but not limited to; limits of liability, declared value conditions, and claim procedures which are available on our website at www.gls-us.com.

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Telephone (888) 288-AETL • (818) 845-8200 • www.aetlab.com
A KYZER LABS COMPANY

July 07, 2023

AETL Job No: BEF0111.01
Received Date: 06/13/2023
Project Number: [none]

Parsons
100 West Walnut Street
Pasadena, CA 91124
Telephone: (626) 440-6200

Attention: Justin King

Project Name: LASUD Canoga

Site: Canoga Park High School
6850 CA-27
Canoga Park, CA 91303

Enclosed please find the results of analyses for samples which were analyzed as specified on the attached chain of custody. If you have any questions concerning this report, please do not hesitate to call.

Checked By: Hailley Coleman
Hailley Coleman
Project Manager

Approved By: Joe Sevrean
Joe Sevrean
Laboratory Director

Table of Contents

Client Project Name: Canoga Park High School Project Number: [none]
Work Order Number: BEF0111

1	Cover Letter	1
2	Sample Condition on Receipt	3
3	Chain of Custody	4
4	Cooler Receipt Forms	9
5	Case Narrative	10
6	Samples Received	11
7	Positive Hits Summary	17
8	Analytical Results	18
9	Quality Control Results	21
10	Qualifiers and Definitions	23
11	Sub Contracted Analysis	25

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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEF0111 [none] Justin King LASUD Canoga	Site: Reported:	Canoga Park High School 6850 CA-27 Canoga Park, CA 91303 07/07/2023 11:20

Sample Condition on Receipt

Cooler ID: Default Cooler **Temperature: 5.8 °C**

Are the COCs Correct	Y		
Labels Legible	Y	Containers In Good Condition	Y
COC/Labels Agree	Y	Samples Preserved Properly	Y
Sufficient Sample Volume	Y	Sufficient Holding Time for all Tests	Y
Sample Labels intact	Y	Received on Ice	Y

Cooler ID: New Cooler **Temperature: 5.7 °C**

Are the COCs Correct	Y		
Labels Legible	Y	Containers In Good Condition	Y
COC/Labels Agree	Y	Samples Preserved Properly	Y
Sufficient Sample Volume	Y	Sufficient Holding Time for all Tests	Y
Sample Labels intact	Y	Received on Ice	Y

Cooler ID: New Cooler [1] **Temperature: 5.8 °C**

Are the COCs Correct	Y		
Labels Legible	Y	Containers In Good Condition	Y
COC/Labels Agree	Y	Samples Preserved Properly	Y
Sufficient Sample Volume	Y	Sufficient Holding Time for all Tests	Y
Sample Labels intact	Y	Received on Ice	Y

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

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CHAIN OF CUSTODY RECORD

111395

AETL JOB No. BEF0111

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut St. Pasadena, CA 91124
PHONE FAX: (310) 809-5793
PROJECT NAME: LAUSD Canoga
PROJECT #:
SITE NAME AND ADDRESS: Canoga Park Highschool 6850 CA-27 Canoga Park, CA 91303
PO #:

ANALYSIS REQUESTED

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	STLC-Pb	TCLP-Pb							TEST INSTRUCTIONS & COMMENTS
1	SB-39-N5-D0.5	BEF0111-01	6/13/2023	0722	Soil	1 x 9oz	NONE	X		X	X							
2	SB-39-N5-D2.0	-02		0724				X										Hold
3	SB-39-N5-D3.0	-03		0727														Hold
4	SB-39-N10-D0.5	-04		0737				X										Hold
5	SB-39-N10-D2.0	-05		0739														Hold
6	SB-39-N10-D3.0	-06		0741														Hold
7	SB-39-S5-D0.5	-07		0747				X										
8	SB-39-S5-D0.5-DUP	-08		0749				X										
9	SB-39-S5-D2.0	-09		0751														Hold
10	SB-39-S5-D3.0	-10		0753														Hold
11	SB-39-S10-D0.5	-11		0804														Hold
12	SB-39-S10-D2.0	-12		0806														Hold
13	SB-39-S10-D3.0	-13		0808														Hold
14	EQ ~~SB-39-S10-D~~																	
15	SB-39-E5-D0.5	-14		0819				X										

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y/ N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: E. Salmon	Signature:	Signature:
Printed Name: Edward Debys	Printed Name:	Printed Name:
Date: 6/13/23 Time: 1500	Date: Time:	Date: Time:

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: 3.
Signature:	Signature:	Signature: AEIL
Printed Name:	Printed Name:	Printed Name: Greta Lerner Gonsiam
Date: Time:	Date: Time:	Date: 6/13/23 Time: 15:00

TURN AROUND TIME
☑ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED
☐ HARD COPY
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CHAIN OF CUSTODY RECORD

111397

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut St. Pasadena, CA 91124
PHONE / FAX: (310) 809-5793
PROJECT NAME: LAUSD Canoga
PROJECT #:
SITE NAME AND ADDRESS: Canoga Park Highschool 6850 CA-27 Canoga Park, CA 91303
PO #:

AETL JOB No. BEF0111

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1	SB-39-ES-D0.0	BEF0111-15	6/13/2023	0821	Soil	1x9oz	none
2	SB-39-ES-D3.0	-16		0823			
3	SB-39-E10-D0.5	-17		0831			
4	SB-39-E10-D2.0	18		0833			
5	SB-39-E10-D3.0	19		0835			
6	SB-38-S10-D0.5	20		0851			
7	SB-38-S10-D2.0	21		0854			
8	SB-38-S10-D3.0	22		0856			
9	SB-38-N5-D0.5	23		0904			
10	SB-38-N5-D2.0	24		0906			
11	SB-38-N5-D3.0	25		0909			
12	SB-38-N10-D0.5	26		0916			
13	SB-38-N10-D2.0	27		0918			
14	SB-38-N10-D3.0	28		0920			
15	SB-38-W5-D0.5	29		0927			

ANALYSIS REQUESTED

	Lead (6010B)	Arsenic (6020)	STLC-Pb	TCLP-Pb	STLC-As	TCLP-As					TEST INSTRUCTIONS & COMMENTS
1											Hold
2											Hold
3											Hold
4											Hold
5											Hold
6		X			X	X					
7		X									Hold
8											Hold
9		X			X						
10		X									Hold
11											Hold
12		X									Hold
13											Hold
14											Hold
15		X			X	X					

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y/ N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

TURN AROUND TIME

☑ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

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☐ GEOTRACKER (GLOBAL ID) _____
☐ OTHER (PLEASE SPECIFY) _____

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: [signature]	Signature:	Signature:
Printed Name: Edward Davis	Printed Name:	Printed Name:
Date: 6/13/2023 Time: 1500	Date: Time:	Date: Time:
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: 3.**
Signature:	Signature:	Signature: [signature]
Printed Name:	Printed Name:	Printed Name: Greta Grigorian
Date: Time:	Date: Time:	Date: 6/13/23 Time: 15:00

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

AMERICAN ENVIRONMENTAL TESTING LABORATORY
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CHAIN OF CUSTODY RECORD

111801

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut Street Pasadena, CA 91124
PHONE: (310) 809-5793
FAX:
PROJECT NAME: LAUSD Canoga
PROJECT #:
SITE NAME AND ADDRESS: Canoga Park Highschool 6850 CA PO#
Canoga Park, CA 91303

AETL JOB No. BEF0111

Page 3 of 5

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	STLC-Pb	TCLP-Pb	STLC-As	TCLP-As	TEST INSTRUCTIONS & COMMENTS
1	SB-38-WS-D0.5-DUP	BEF0111-30	6/13/2023	0929	Soil	1 X 402	none		X			X	X	
2	SB-38-WS-D2.0	31		0931					X					Hold
3	SB-38-WS-D3.0	32		0933										Hold
4	SB-38-W10-D0.5	33		0939					X					Hold
5	SB-38-W10-D2.0	34		0941										Hold
6	SB-38-W10-D3.0	35		0943										Hold
7	SB-51-N5-D0.5	36		1039					X					
8	SB-51-N5-D2.0	37		1041					X					Hold
9	SB-51-N5-D3.0	38		1043										Hold
10	SB-51-S5-D0.5	39		1049					X					
11	SB-51-S5-D2.0	40		1051					X					Hold
12	SB-51-S5-D3.0	41		1053										Hold
13	SB-51-E5-D0.5	42		1102					X					
14	SB-51-E5-D2.0	43		1104					X					Hold
15	SB-51-E5-D3.0	44		1107										Hold

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y/ N / NA	
EIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

TURN AROUND TIME

☒ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY ☐ PDF ☐ GEOTRACKER (GLOBAL ID) _____ ☐ OTHER (PLEASE SPECIFY) _____

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:	Signature:	Signature:
Printed Name: Edward Dabbs	Printed Name:	Printed Name:
Date: 6/13/2023 Time: 1500	Date: Time:	Date: Time:
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: 3.**
Signature:	Signature:	Signature:
Printed Name:	Printed Name:	Printed Name:
Date: Time:	Date: Time:	Date: 6/13/23 Time: 15:00

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

AMERICAN ENVIRONMENTAL TESTING LABORATORY
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CHAIN OF CUSTODY RECORD

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut St. Pasadena, CA 91124
PHONE / EMAIL: (310) 809-5793
PROJECT NAME: LAUSD Canoga
PROJECT #:
SITE NAME AND ADDRESS: Canoga Park Highschool 6850 CA-57, Canoga Park, CA 91303
PO #:
AETL JOB No. BEF0111
Page 4 of 5

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1	SB-S1-W5-D0.5	BEF0111-45	6/13/2023	1114	Soil	1 x 90z	NONE
2	SB-S1-W5-D2.0	46	"	1116	"	"	"
3	SB-S1-W5-D3.0	47	"	1118	"	"	"
4	SB-3-NW5-D0.5	48	"	1216	"	"	"
5	SB-3-NW5-D0.5-DUP	49	"	1218	"	"	"
6	SB-3-NW5-D2.0	50	"	1220	"	"	"
7	SB-3-NW5-D3.0	51	"	1222	"	"	"
8	SB-3-NW10-D0.5	52	"	1230	"	"	"
9	SB-3-NW10-D2.0	53	"	1232	"	"	"
10	SB-3-NW10-D3.0	54	"	1235	"	"	"
11	SB-20-S5-D0.5	55	"	1250	"	"	"
12	SB-20-S5-D2.0	56	"	1252	"	"	"
13	SB-20-S5-D3.0	57	"	1254	"	"	"
14	SB-20-S10-D0.5	58	"	1302	"	"	"
15	SB-20-S10-D2.0	59	"	1304	"	"	"

ANALYSIS REQUESTED

	Lead (6010B)	Arsenic (6020)	STLC-Pb	TCLP-Pb	STLC-As	TCLP-As	TEST INSTRUCTIONS & COMMENTS
1		X			X		
2		X					Hold
3							Hold
4	X		X				
5	X						
6	X						Hold
7							Hold
8							Hold
9							Hold
10							Hold
11		X					
12							
13							
14							
15							

TOTAL NUMBER OF CONTAINERS: 15

BILLING INFORMATION / SPECIAL INSTRUCTIONS

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: E. Salm	Signature:	Signature:
Printed Name: Edward Dabbs	Printed Name:	Printed Name:
Date: 6/13/2023 Time: 1500	Date: Time:	Date: Time:
RECEIVED BY: 1.	**RECEIVED BY:** 2.	**RECEIVED BY LABORATORY:** 3.
Signature:	Signature:	Signature:
Printed Name:	Printed Name:	Printed Name:
Date: Time:	Date: Time:	Date: 6/13/23 Time: 15:00

TURN AROUND TIME
☐ NORMAL ☐ SAME DAY RUSH ☐ NEXT DAY RUSH
☐ 2 DAYS RUSH ☐ 3 DAYS RUSH ☐ 4 DAYS RUSH

DATA DELIVERABLE REQUIRED
☐ HARD COPY
☐ E-COPY
☐ GEOTRACKER (GLOBAL ID) _____
☐ OTHER (PLEASE SPECIFY) _____

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

AMERICAN ENVIRONMENTAL TESTING LABORATORY
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TEL (888) 288-AETL (818) 845-8200 FAX (818) 845-8840 www.aetlab.com

CHAIN OF CUSTODY RECORD

111396

AETL JOB No. BEF0111

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut Street, Pasadena, CA 91124
PHONE FAX: (310) 809-5793
PROJECT NAME: LAUSD Canoga Park
PROJECT #:
SITE NAME AND ADDRESS: Canoga Park Highschool 6850 CA-27 Canoga Park, CA 91303
PO #:

ANALYSIS REQUESTED

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)									TEST INSTRUCTIONS & COMMENTS
1	~~SB-ES-020~~ E.D.																	
2	~~SB-ES-030~~ E.D.																	ED
3	SB-20-510-030	BEF0111-60	6/13/2023	1307	Soil	1x9oz	none											ED. Hold
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		

E. Jr

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y/ N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: E. Jr	Signature:	Signature:
Printed Name: Edward Dabis	Printed Name:	Printed Name:
Date: 6/13/2023 Time: 1500	Date: Time:	Date: Time:

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: 3.
Signature:	Signature:	Signature: AETL
Printed Name:	Printed Name:	Printed Name: Cerela Corrastaro
Date: Time:	Date: Time:	Date: 6/13/23 Time: 15:00

TURN AROUND TIME
☑ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED
☐ HARD COPY
☐ PDF
☐ GEOTRACKER (GLOBAL ID) _____
☐ OTHER (PLEASE SPECIFY) _____

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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COOLER RECEIPT FORM

Client Name: Parsons

Project Name: Lausd Canoga Project No.:

AETL Job Number: BEF0111

Date Received: 06/13/2023 Received by: Greta G

Carrier: ☐ AETL Courier ☑ Client ☐ GSL ☐ FedEx ☐ UPS
☐Others:

Samples were received in: ☑ Cooler (1) ☐ Other (Specify):

Sample Container Temperature: 5.8 °C IR Gun S/N: 51941911MV

Type of sample containers: ☐ VOA, ☐ Glass bottles, ☑Wide mouth jars, ☐HDPE bottles, ☐ Metal sleeves, ☐ Acetate sleeves, ☐ 5035 Kit: ☐ AETL or ☐ Client, ☐ Tedlar Bags, Summa Canister: ☐ 6L, ☐ 3L, ☐ 1L, Others (Specify): _____

How are samples preserved: ☐ None, ☑ Ice, ☐ Blue Ice, ☐ Dry Ice
☑ None, ☐ HNO_3, ☐ NaOH, ☐ ZnOAc, ☐ HCl, ☐ $Na_2S_2O_3$, ☐ MeOH, ☐ $NaHSO_4$
☐ Other (Specify):

	Yes	No	N/A	Note or Comment
1. Are the COCs Correct?	✔			
2. Are Sample labels legible & indelible ink?	✔			
3. Do samples match the COC?	✔			
4. Are the required analyses clear?	✔			
5. Is there enough samples for required analysis?	✔			
6. Does cooler or samples have custody seal(s)?			✔	
7. Are sample containers in good condition?	✔			
8. Are samples preserved?	✔			
9. Are samples preserved properly for the intended analysis?	✔			
10. Are the VOAs free of headspace? See footnote.			✔	
11. Are the jars free of headspace?			✔	

* = see note below. N/A = Not Applicable

PLEASE NOTE ALL SAMPLES WILL BE DISPOSED OF 30 DAYS AFTER RECEIVING DATE. IF AETL IS INFORMED OTHERWISE, THERE WILL BE A STORAGE CHARGE PER SAMPLE PER MONTH FOR ANY SAMPLE HELD BEYOND 30 DAYS.

◯ Example maximum headspace bubble size; acceptance criteria not to exceed 5-6 mm in diameter.

For headspace bubbles exceeding 6 mm in diameter, sample receiving will tag the VOA and notify the Project Manager. The Project Manager will contact client for Analyze or Resample instructions.

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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEF0111 [none] Justin King LASUD Canoga	Site: Reported:	Canoga Park High School 6850 CA-27 Canoga Park, CA 91303 07/07/2023 11:20

Case Narrative

The following "Sample Received" Section summarizes the samples received and associated analyses requested as specified on the enclosed chain of custody.

Results as reported by the laboratory apply only to 1) the items tested, 2) as the samples are received, and 3) the accuracy of information provided. Information supplied by the customer that may affect validity of results and may be contained in this report include Project Name/Number, Site Location, Sample Locations, Sampling Dates/Times, Sample ID, Sample Preservation, Sample Matrix, Sample Properties, Field Blanks, Field Duplicates, Field Spikes, and Site Historical Data.

Accreditation applies only to the test methods listed on each scope of accreditation held by the laboratory; certifications held by the laboratory may not apply to results supplied in this report.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

No analytical non-conformances were encountered.

Qualifiers are noted in the report.

The samples were subcontracted to Asset Laboratories for EPA 6020. Please see attached report for results.

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Parsons	AETL Job Number:	BEF0111	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LASUD Canoga	Reported:	07/07/2023 11:20	

Samples Received

AETL received the following samples on 06/13/2023 with the following specifications

Client ID: SB-39-N5-D0.5 **Sample Date:** 06/13/2023 7:22

Lab ID: BEF0111-01 **Matrix:** Soil **Quantity of Containers:** 2

Method	Analyte	Units	TAT
EPA 6010B-1311 TCLP	TCLP Lead by ICP	mg/L	5
EPA 6010B-STLC	STLC Lead by ICP	mg/L	5

Client ID: SB-39-N5-D2.0 **Sample Date:** 06/13/2023 7:24

Lab ID: BEF0111-02 **Matrix:** Soil **Quantity of Containers:** 1

Method	Analyte	Units	TAT
EPA 6010B	Lead, total by ICP	mg/kg	5

Client ID: SB-39-N10-D0.5 **Sample Date:** 06/13/2023 7:37

Lab ID: BEF0111-04 **Matrix:** Soil **Quantity of Containers:** 1

Method	Analyte	Units	TAT
EPA 6010B	Lead, total by ICP	mg/kg	5

Client ID: SB-38-S10-D0.5 **Sample Date:** 06/13/2023 8:51

Lab ID: BEF0111-20 **Matrix:** Soil **Quantity of Containers:** 3

Method	Analyte	Units	TAT
EPA 6010B-1311 TCLP	TCLP Arsenic by ICP	mg/L	5

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Parsons	AETL Job Number:	BEF0111	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LASUD Canoga	Reported:	07/07/2023 11:20	

Samples Received
(Continued)

AETL received the following samples on 06/13/2023 with the following specifications

Method	Analyte	Units	TAT
EPA 6010B-STLC	STLC Arsenic by ICP	mg/L	5

Client ID: SB-38-S10-D2.0 **Sample Date:** 06/13/2023 8:54
Lab ID: BEF0111-21 **Matrix:** Soil **Quantity of Containers:** 2

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Client ID: SB-38-N5-D0.5 **Sample Date:** 06/13/2023 9:04
Lab ID: BEF0111-23 **Matrix:** Soil **Quantity of Containers:** 3

Method	Analyte	Units	TAT
EPA 6010B-STLC	STLC Arsenic by ICP	mg/L	5

Client ID: SB-38-N5-D2.0 **Sample Date:** 06/13/2023 9:06
Lab ID: BEF0111-24 **Matrix:** Soil **Quantity of Containers:** 2

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Client ID: SB-38-N10-D0.5 **Sample Date:** 06/13/2023 9:16
Lab ID: BEF0111-26 **Matrix:** Soil **Quantity of Containers:** 2

Method	Analyte	Units	TAT

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Parsons	AETL Job Number:	BEF0111	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LASUD Canoga	Reported:	07/07/2023 11:20	

Samples Received
(Continued)

AETL received the following samples on 06/13/2023 with the following specifications

EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Client ID: SB-38-W5-D0.5 **Sample Date:** 06/13/2023 9:27

Lab ID: BEF0111-29 **Matrix:** Soil **Quantity of Containers:** 3

Method	Analyte	Units	TAT
EPA 6010B-1311 TCLP	TCLP Arsenic by ICP	mg/L	5
EPA 6010B-STLC	STLC Arsenic by ICP	mg/L	5

Client ID: SB-38-W5-D0.5-DUP **Sample Date:** 06/13/2023 9:29

Lab ID: BEF0111-30 **Matrix:** Soil **Quantity of Containers:** 3

Method	Analyte	Units	TAT
EPA 6010B-1311 TCLP	TCLP Arsenic by ICP	mg/L	5
EPA 6010B-STLC	STLC Arsenic by ICP	mg/L	5

Client ID: SB-38-W5-D2.0 **Sample Date:** 06/13/2023 9:31

Lab ID: BEF0111-31 **Matrix:** Soil **Quantity of Containers:** 2

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEF0111 [none] Justin King LASUD Canoga	Site: Reported:	Canoga Park High School 6850 CA-27 Canoga Park, CA 91303 07/07/2023 11:20

Samples Received
(Continued)

AETL received the following samples on 06/13/2023 with the following specifications

Client ID SB-38-W10-D0.5 — **Sample Date** 06/13/2023 9:39

Lab ID	Matrix	Quantity of Containers
BEF0111-33	Soil	2

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Client ID SB-51-N5-D2.0 — **Sample Date** 06/13/2023 10:41

Lab ID	Matrix	Quantity of Containers
BEF0111-37	Soil	2

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Client ID SB-51-S5-D2.0 — **Sample Date** 06/13/2023 10:51

Lab ID	Matrix	Quantity of Containers
BEF0111-40	Soil	2

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Client ID SB-51-E5-D2.0 — **Sample Date** 06/13/2023 11:04

Lab ID	Matrix	Quantity of Containers
BEF0111-43	Soil	2

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEF0111 [none] Justin King LASUD Canoga	Site: Reported:	Canoga Park High School 6850 CA-27 Canoga Park, CA 91303 07/07/2023 11:20

Samples Received
(Continued)

AETL received the following samples on 06/13/2023 with the following specifications

Client ID SB-51-W5-D0.5 — **Sample Date** 06/13/2023 11:14

Lab ID BEF0111-45 — **Matrix** Soil — **Quantity of Containers** 3

Method	Analyte	Units	TAT
EPA 6010B-STLC	STLC Arsenic by ICP	mg/L	5

Client ID SB-51-W5-D2.0 — **Sample Date** 06/13/2023 11:16

Lab ID BEF0111-46 — **Matrix** Soil — **Quantity of Containers** 2

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Client ID SB-3-NW5-D0.5 — **Sample Date** 06/13/2023 12:16

Lab ID BEF0111-48 — **Matrix** Soil — **Quantity of Containers** 2

Method	Analyte	Units	TAT
EPA 6010B-STLC	STLC Lead by ICP	mg/L	5

Client ID SB-3-NW5-D2.0 — **Sample Date** 06/13/2023 12:20

Lab ID BEF0111-50 — **Matrix** Soil — **Quantity of Containers** 1

Method	Analyte	Units	TAT
EPA 6010B	Lead, total by ICP	mg/kg	5

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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEF0111 [none] Justin King LASUD Canoga	Site: Reported:	Canoga Park High School 6850 CA-27 Canoga Park, CA 91303 07/07/2023 11:20

Samples Received

(Continued)

AETL received the following samples on 06/13/2023 with the following specifications

Client ID			Sample Date
SB-20-S5-D0.5			06/13/2023 12:50
Lab ID		**Matrix**	**Quantity of Containers**
BEF0111-55		Soil	2

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Total Number of Samples received: 20

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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEF0111 [none] Justin King LASUD Canoga	Site: Reported:	Canoga Park High School 6850 CA-27 Canoga Park, CA 91303 07/07/2023 11:20

Positive Hits Summary

Lab ID	Client ID				Sampled
BEF0111-02	SB-39-N5-D2.0				06/13/2023 07:24
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	5.58		mg/kg	06/29/2023 13:48

Lab ID	Client ID				Sampled
BEF0111-04	SB-39-N10-D0.5				06/13/2023 07:37
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	13.5		mg/kg	06/29/2023 13:51

Lab ID	Client ID				Sampled
BEF0111-50	SB-3-NW5-D2.0				06/13/2023 12:20
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	5.38		mg/kg	06/29/2023 14:00

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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEF0111 [none] Justin King LASUD Canoga	Site: Reported:	Canoga Park High School 6850 CA-27 Canoga Park, CA 91303 07/07/2023 11:20

Analytical Results

Client ID: **SB-39-N5-D2.0**
Lab ID: **BEF0111-02 (Soil)** **Sampled:** **06/13/23 7:24**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Lead	**5.58**		1	0.550	5.00	mg/kg	06/28/23 08:57	06/29/23 13:48	B3F0376	LC	3050B

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Parsons	AETL Job Number:	BEF0111	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LASUD Canoga	Reported:	07/07/2023 11:20	

Analytical Results

Client ID: SB-39-N10-D0.5
Lab ID: BEF0111-04 (Soil) **Sampled:** 06/13/23 7:37

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Lead	**13.5**		1	0.550	5.00	mg/kg	06/28/23 08:57	06/29/23 13:51	B3F0376	LC	3050B

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Parsons	AETL Job Number:	BEF0111	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LASUD Canoga	Reported:	07/07/2023 11:20	

Analytical Results

Client ID: SB-3-NW5-D2.0
Lab ID: BEF0111-50 (Soil) **Sampled:** 06/13/23 12:20

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Lead	**5.38**		1	0.550	5.00	mg/kg	06/28/23 08:57	06/29/23 14:00	B3F0376	LC	3050B

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Parsons	AETL Job Number:	BEF0111	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LASUD Canoga	Reported:	07/07/2023 11:20	

Quality Control Results

Metals Total (EPA 6010B)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3F0376 - 3050B					**Prepared: 06/28/2023 08:57**						
Method Blank (B3F0376-BLK1)					**Analyzed: 06/29/2023 13:28**						
Lead	ND	0.550	5.00	mg/kg							

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Parsons	AETL Job Number:	BEF0111	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LASUD Canoga	Reported:	07/07/2023 11:20	

Quality Control Results

Metals Total (EPA 6010B)

Analyte	Result		RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3F0376 - 3050B (Continued)					**Prepared: 06/28/2023 08:57**						
LCS (B3F0376-BS1)					**Analyzed: 06/29/2023 13:31**						
Lead	95.1		5.00	mg/kg	96.2		98.9	75-125			
LCSD (B3F0376-BSD1)					**Analyzed: 06/29/2023 13:34**						
Lead	98.4		5.00	mg/kg	99.0		99.4	75-125	3.42	15	
Duplicate (B3F0376-DUP1)		**Source: BEF0248-01**			**Analyzed: 06/29/2023 13:39**						
Lead	48.8	0.550	5.00	mg/kg		51.2			4.78	20	
Matrix Spike (B3F0376-MS1)		**Source: BEF0248-01**			**Analyzed: 06/29/2023 13:42**						
Lead	149	0.550	5.00	mg/kg	100	51.2	97.9	75-125			
Matrix Spike Dup (B3F0376-MSD1)		**Source: BEF0248-01**			**Analyzed: 06/29/2023 13:45**						
Lead	167	0.550	5.00	mg/kg	98.0	51.2	118	75-125	11.3	15	

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Parsons	AETL Job Number:	BEF0111	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LASUD Canoga	Reported:	07/07/2023 11:20	

Qualifiers and Definitions

Item	Definitions
% wt	Percent Weight
%REC	Percent Recovery
°F	Degrees Fahrenheit
AETL	American Environmental Testing Laboratory, LLC
C	Carbon
CARB	California Air Resources Board
COC	Chain of Custody
Cresols	3-methylphenol/4-methylphenol coelute and cannot be chromatographically separated. Due to this coeluting isomer pair phenomenon, the laboratory uses a single cresol (4-methylphenol) as calibration standard for 3-methylphenol/4-methylphenol.
CRM	Certified Reference Material
DI	Deionized Water
DPD	Department of Planning and Development
DRO	Diesel Range Organics
Dup	Duplicate
ELAP	Environmental Laboratory Accreditation Program
EPA	Environmental Protection Agency
GC/FID	Gas Chromatography Flame Ionization Detection
GRO	Gasoline Range Organics
HC	Hydrocarbon
HEM	Hexane Extractable Material
HMU	Hazardous Material Unit
ICP/MS	Inductively Coupled Plasma Mass Spectrometry
LACSD	Los Angeles County Sanitation Districts
LCS	Laboratory Control Sample - A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes.
LCSD	Laboratory Control Sample Duplicate - A replicate of Laboratory Control Sample.
LOQ	Limit of Quantitation
MDL	Method Detection Limit - The minimum measured concentration of a substance that can be reported with 99% confidence. MDL is statistically derived number which is specific for each instrument, each method and each compound.
mg/kg	Miligrams per Kilogram
mg/L	Miligrams per Liter
ml/L/hr	Milliliter per Liter per Hour
MRO	Motor oil Range Organics
MS	Matrix Spike - A sample prepared, taken through all sample preparation and analytical steps of the procedure and analyzed as an independent test results.
MSD	Matrix Spike Duplicate - A replicate of Matrix Spike Sample.
N	No
ND	Analyte is not detected below Method Detection Limit.

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

Parsons	AETL Job Number:	BEF0111	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LASUD Canoga	Reported:	07/07/2023 11:20	

ng/m3	Nanograms per cubic meter
NIOSH	National Institute for Occupational Safety and Health
nL/L	Nanoliters per Liter
NTU	Nephelometric Turbidity Units
Ohm-cm	Ohms per centimeter
ORO	Oil Range Organics
OSHA	Occupational Safety and Health Administration
PCB	Polychlorinated Biphenyl
ppb v	Parts per billion by volume
ppmC	Parts per million Carbon
PSU	Practical Salinity Unit
RL	Reporting Limit - The lowest concentration at which an analyte can be detected in a sample and its concentration can be reported with a specified degree of confidence, accuracy and precision. For usage at AETL, RL is equivalant to LOQ.
RPD	Relative Percent Difference
SIM	Selective Ion Monitoring
SM	Standard Method
SPLP	Synthetic Precipitation Leaching Procedure
STLC	Soluble Threshold Limit Concentration
TCLP	Toxicity Characteristic Leaching Procedure
TPH	Total Petroleum Hydrocarbons
TTLC	Total Threshold Limit Concentrations
ug/kg	Micrograms per Kilogram
ug/L	Micrograms per Liter
ug/m3	Micrograms per cubic meter
WET	Waste Extraction Test
Y	Yes
ZHE	Zero Headspace Extraction

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

July 06, 2023

Hailley Coleman
American Environmental Testing Laboratory, Inc.
2834 N. Naomi Street
Burbank, CA 91504

TEL: (818) 845-8200
FAX:

Workorder No.: N057444

RE: BEF0111.02

Attention: Hailley Coleman

Enclosed are the results for sample(s) received on June 28, 2023 by ASSET Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562) 219-7435 if I can be of further assistance to your company.

Sincerely,

for

Ferdinand Paul Lugtu
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and ASSET Laboratories - California.

SAMPLE RECEIVING/GENERAL COMMENTS:

All sample containers were received intact with proper chain of custody documentation.

Information on sample receipt conditions including discrepancies can be found in attached Sample Receipt Checklist Form.

Cooler temperature and sample preservation were verified upon receipt of samples if applicable.

Samples were analyzed within method holding time.

Analytical Comments for EPA 6010B_STLC:

Dilution was necessary due to matrix.

Matrix Spike (MS) is outside recovery criteria possibly due to matrix interference. The associated Laboratory Control Sample (LCS) recovery was acceptable.

Analytical Comments for EPA 6020:

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery and RPD criteria possibly due to matrix interference. The associated Laboratory Control Sample (LCS) recovery was acceptable.

CLIENT: American Environmental Testing Laborator
Project: BEF0111.02
Lab Order: N057444
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N057444-001A	BEF0111-01	Soil	6/13/2023 7:22:00 AM	6/28/2023	7/6/2023
N057444-002A	BEF0111-20	Soil	6/13/2023 8:51:00 AM	6/28/2023	7/6/2023
N057444-003A	BEF0111-21	Soil	6/13/2023 8:54:00 AM	6/28/2023	7/6/2023
N057444-004A	BEF0111-23	Soil	6/13/2023 9:04:00 AM	6/28/2023	7/6/2023
N057444-005A	BEF0111-24	Soil	6/13/2023 9:06:00 AM	6/28/2023	7/6/2023
N057444-006A	BEF0111-26	Soil	6/13/2023 9:16:00 AM	6/28/2023	7/6/2023
N057444-007A	BEF0111-29	Soil	6/13/2023 9:27:00 AM	6/28/2023	7/6/2023
N057444-008A	BEF0111-30	Soil	6/13/2023 9:29:00 AM	6/28/2023	7/6/2023
N057444-009A	BEF0111-31	Soil	6/13/2023 9:31:00 AM	6/28/2023	7/6/2023
N057444-010A	BEF0111-33	Soil	6/13/2023 9:39:00 AM	6/28/2023	7/6/2023
N057444-011A	BEF0111-37	Soil	6/13/2023 10:41:00 AM	6/28/2023	7/6/2023
N057444-012A	BEF0111-40	Soil	6/13/2023 10:51:00 AM	6/28/2023	7/6/2023
N057444-013A	BEF0111-43	Soil	6/13/2023 11:04:00 AM	6/28/2023	7/6/2023
N057444-014A	BEF0111-45	Soil	6/13/2023 11:14:00 AM	6/28/2023	7/6/2023
N057444-015A	BEF0111-46	Soil	6/13/2023 11:16:00 AM	6/28/2023	7/6/2023
N057444-016A	BEF0111-48	Soil	6/13/2023 12:16:00 AM	6/28/2023	7/6/2023

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0111-01
Lab Order:	N057444		
Project:	BEF0111.02	**Collection Date:**	6/13/2023 7:22:00 AM
Lab ID:	N057444-001	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS BY STLC						
EPA 3010A				**WET/ EPA 6010B**		
RunID: CA01638-ICP01_230702A QC Batch: 100590				PrepDate:	7/2/2023	Analyst: **PL**
Lead	18	0.25		mg/L	5	7/2/2023 06:36 PM
ICP METALS BY TCLP EXTRACTION						
EPA 3010A				**EPA 1311/ 6010B**		
RunID: CA01638-ICP01_230703B QC Batch: 100589				PrepDate:	7/2/2023	Analyst: **PL**
Lead	0.10	0.050		mg/L	1	7/3/2023 05:55 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0111-20
Lab Order:	N057444		
Project:	BEF0111.02	**Collection Date:**	6/13/2023 8:51:00 AM
Lab ID:	N057444-002	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS BY STLC						
EPA 3010A				**WET/ EPA 6010B**		
RunID: CA01638-ICP01_230702A QC Batch: 100590				PrepDate:	7/2/2023	Analyst: **PL**
Arsenic	7.0	0.25		mg/L	5	7/2/2023 06:39 PM
ICP METALS BY TCLP EXTRACTION						
EPA 3010A				**EPA 1311/ 6010B**		
RunID: CA01638-ICP01_230703B QC Batch: 100589				PrepDate:	7/2/2023	Analyst: **PL**
Arsenic	1.9	0.050		mg/L	1	7/3/2023 05:58 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0111-21
Lab Order:	N057444		
Project:	BEF0111.02	**Collection Date:**	6/13/2023 8:54:00 AM
Lab ID:	N057444-003	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230629B	QC Batch: 100535			PrepDate:	6/29/2023	Analyst: **DJ**
Arsenic	31	0.50		mg/Kg	1	6/29/2023 11:12 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0111-23
Lab Order:	N057444		
Project:	BEF0111.02	**Collection Date:**	6/13/2023 9:04:00 AM
Lab ID:	N057444-004	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS BY STLC						
EPA 3010A				**WET/ EPA 6010B**		
RunID: CA01638-ICP01_230702A	QC Batch: 100590			PrepDate:	7/2/2023	Analyst: **PL**
Arsenic	3.6	0.25		mg/L	5	7/2/2023 06:42 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0111-24
Lab Order:	N057444		
Project:	BEF0111.02	**Collection Date:**	6/13/2023 9:06:00 AM
Lab ID:	N057444-005	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230630B	QC Batch: 100535			PrepDate:	6/29/2023	Analyst: **DJ**
Arsenic	90	2.5		mg/Kg	5	6/30/2023 12:38 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0111-26
Lab Order:	N057444		
Project:	BEF0111.02	**Collection Date:**	6/13/2023 9:16:00 AM
Lab ID:	N057444-006	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230630B	QC Batch: 100535			PrepDate:	6/29/2023	Analyst: **DJ**
Arsenic	280	2.5		mg/Kg	5	6/30/2023 12:43 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0111-29
Lab Order:	N057444		
Project:	BEF0111.02	**Collection Date:**	6/13/2023 9:27:00 AM
Lab ID:	N057444-007	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS BY STLC						
EPA 3010A				**WET/ EPA 6010B**		
RunID: CA01638-ICP01_230702A QC Batch: 100590				PrepDate:	7/2/2023	Analyst: **PL**
Arsenic	9.0	0.25		mg/L	5	7/2/2023 06:45 PM
ICP METALS BY TCLP EXTRACTION						
EPA 3010A				**EPA 1311/ 6010B**		
RunID: CA01638-ICP01_230703B QC Batch: 100589				PrepDate:	7/2/2023	Analyst: **PL**
Arsenic	2.2	0.050		mg/L	1	7/3/2023 06:01 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0111-30
Lab Order:	N057444		
Project:	BEF0111.02	**Collection Date:**	6/13/2023 9:29:00 AM
Lab ID:	N057444-008	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS BY STLC						
EPA 3010A				**WET/ EPA 6010B**		
RunID: CA01638-ICP01_230702A QC Batch: 100590				PrepDate:	7/2/2023	Analyst: **PL**
Arsenic	9.4	0.25		mg/L	5	7/2/2023 06:48 PM
ICP METALS BY TCLP EXTRACTION						
EPA 3010A				**EPA 1311/ 6010B**		
RunID: CA01638-ICP01_230703B QC Batch: 100589				PrepDate:	7/2/2023	Analyst: **PL**
Arsenic	2.5	0.050		mg/L	1	7/3/2023 06:04 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0111-31
Lab Order:	N057444		
Project:	BEF0111.02	**Collection Date:**	6/13/2023 9:31:00 AM
Lab ID:	N057444-009	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230629B	QC Batch: 100535			PrepDate:	6/29/2023	Analyst: **DJ**
Arsenic	88	0.50		mg/Kg	1	6/29/2023 11:26 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0111-33
Lab Order:	N057444		
Project:	BEF0111.02	**Collection Date:**	6/13/2023 9:39:00 AM
Lab ID:	N057444-010	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230629B	QC Batch: 100535			PrepDate:	6/29/2023	Analyst: **DJ**
Arsenic	8.3	0.50		mg/Kg	1	6/29/2023 11:31 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0111-37
Lab Order:	N057444		
Project:	BEF0111.02	**Collection Date:**	6/13/2023 10:41:00 AM
Lab ID:	N057444-011	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230629B	QC Batch: 100535			PrepDate:	6/29/2023	Analyst: **DJ**
Arsenic	4.5	0.50		mg/Kg	1	6/29/2023 11:50 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0111-40
Lab Order:	N057444		
Project:	BEF0111.02	**Collection Date:**	6/13/2023 10:51:00 AM
Lab ID:	N057444-012	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230629B	QC Batch: 100535			PrepDate:	6/29/2023	Analyst: **DJ**
Arsenic	8.8	0.50		mg/Kg	1	6/29/2023 11:54 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0111-43
Lab Order:	N057444		
Project:	BEF0111.02	**Collection Date:**	6/13/2023 11:04:00 AM
Lab ID:	N057444-013	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230629B	QC Batch: 100535			PrepDate:	6/29/2023	Analyst: **DJ**
Arsenic	4.3	0.50		mg/Kg	1	6/29/2023 11:59 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0111-45
Lab Order:	N057444		
Project:	BEF0111.02	**Collection Date:**	6/13/2023 11:14:00 AM
Lab ID:	N057444-014	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS BY STLC						
	EPA 3010A			**WET/ EPA 6010B**		
RunID: CA01638-ICP01_230702A	QC Batch: 100590			PrepDate:	7/2/2023	Analyst: **PL**
Arsenic	5.7	0.25		mg/L	5	7/2/2023 06:51 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0111-46
Lab Order:	N057444		
Project:	BEF0111.02	**Collection Date:**	6/13/2023 11:16:00 AM
Lab ID:	N057444-015	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230630B	QC Batch: 100535			PrepDate:	6/29/2023	Analyst: **DJ**
Arsenic	110	2.5		mg/Kg	5	6/30/2023 12:47 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0111-48
Lab Order:	N057444		
Project:	BEF0111.02	**Collection Date:**	6/13/2023 12:16:00 AM
Lab ID:	N057444-016	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS BY STLC						
	EPA 3010A			**WET/ EPA 6010B**		
RunID: CA01638-ICP01_230702A	QC Batch: 100590			PrepDate:	7/2/2023	Analyst: **PL**
Lead	1.7	0.25		mg/L	5	7/2/2023 06:54 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: American Environmental Testing Laboratory, Inc.
Work Order: N057444
Project: BEF0111.02

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_S_PPM

Sample ID: **MB-100535**	SampType: **MBLK**	TestCode: **6020_S_PPM**	Units: **mg/Kg**	Prep Date: **6/29/2023**	RunNo: **173582**
Client ID: **PBS**	Batch ID: **100535**	TestNo: **EPA 6020**	**EPA 3050B**	Analysis Date: **6/29/2023**	SeqNo: **5267407**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.50									

Sample ID: **LCS-100535**	SampType: **LCS**	TestCode: **6020_S_PPM**	Units: **mg/Kg**	Prep Date: **6/29/2023**	RunNo: **173582**
Client ID: **LCSS**	Batch ID: **100535**	TestNo: **EPA 6020**	**EPA 3050B**	Analysis Date: **6/29/2023**	SeqNo: **5267408**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	5.077	0.50	5.000	0	102	85	115				

Sample ID: **N057442-001A-MS**	SampType: **MS**	TestCode: **6020_S_PPM**	Units: **mg/Kg**	Prep Date: **6/29/2023**	RunNo: **173582**
Client ID: **ZZZZZZ**	Batch ID: **100535**	TestNo: **EPA 6020**	**EPA 3050B**	Analysis Date: **6/29/2023**	SeqNo: **5267412**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	11.386	0.50	4.990	5.912	110	75	125				

Sample ID: **N057442-001A-MSD**	SampType: **MSD**	TestCode: **6020_S_PPM**	Units: **mg/Kg**	Prep Date: **6/29/2023**	RunNo: **173582**
Client ID: **ZZZZZZ**	Batch ID: **100535**	TestNo: **EPA 6020**	**EPA 3050B**	Analysis Date: **6/29/2023**	SeqNo: **5267413**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	15.631	0.50	4.978	5.912	195	75	125	11.39	31.4	20	SR

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: American Environmental Testing Laboratory, Inc.
Work Order: N057444
Project: BEF0111.02

ANALYTICAL QC SUMMARY REPORT

TestCode: CA_6010_ST

Sample ID: LCS-100590	SampType: LCS	TestCode: CA_6010_ST	Units: mg/L	Prep Date: 7/2/2023	RunNo: 173634
Client ID: LCSS	Batch ID: 100590	TestNo: WET/ EPA 60	EPA 3010A	Analysis Date: 7/2/2023	SeqNo: 5270151

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.475	0.050	0.5000	0	95.0	85	115				
Lead	0.475	0.050	0.5000	0	95.0	85	115				

Sample ID: MB-100590	SampType: MBLK	TestCode: CA_6010_ST	Units: mg/L	Prep Date: 7/2/2023	RunNo: 173634
Client ID: PBS	Batch ID: 100590	TestNo: WET/ EPA 60	EPA 3010A	Analysis Date: 7/2/2023	SeqNo: 5270152

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.050									
Lead	ND	0.050									

Sample ID: MB-100538 STLC	SampType: MBLK	TestCode: CA_6010_ST	Units: mg/L	Prep Date: 7/2/2023	RunNo: 173634
Client ID: PBS	Batch ID: 100590	TestNo: WET/ EPA 60	EPA 3010A	Analysis Date: 7/2/2023	SeqNo: 5270160

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.034	0.25									
Lead	ND	0.25									

Sample ID: N057442-006A-MS	SampType: MS	TestCode: CA_6010_ST	Units: mg/L	Prep Date: 7/2/2023	RunNo: 173634
Client ID: ZZZZZZ	Batch ID: 100590	TestNo: WET/ EPA 60	EPA 3010A	Analysis Date: 7/2/2023	SeqNo: 5270164

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.618	0.25	0.5000	0.1366	96.4	75	125				
Lead	9.370	0.25	0.5000	8.697	135	75	125				S

Sample ID: N057442-006A-MSD	SampType: MSD	TestCode: CA_6010_ST	Units: mg/L	Prep Date: 7/2/2023	RunNo: 173634
Client ID: ZZZZZZ	Batch ID: 100590	TestNo: WET/ EPA 60	EPA 3010A	Analysis Date: 7/2/2023	SeqNo: 5270165

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.614	0.25	0.5000	0.1366	95.6	75	125	0.6184	0.633	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike/Surrogate outside of limits due to matrix interference
- DO Surrogate Diluted Out
- Calculations are based on raw values

CLIENT: American Environmental Testing Laboratory, Inc.
Work Order: N057444
Project: BEF0111.02

ANALYTICAL QC SUMMARY REPORT

TestCode: CA_6010_ST

Sample ID: **N057442-006A-MSD** SampType: **MSD** TestCode: **CA_6010_ST** Units: **mg/L** Prep Date: **7/2/2023** RunNo: **173634**
Client ID: **ZZZZZZ** Batch ID: **100590** TestNo: **WET/ EPA 60 EPA 3010A** Analysis Date: **7/2/2023** SeqNo: **5270165**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	9.243	0.25	0.5000	8.697	109	75	125	9.370	1.37	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

ANALYTICAL QC SUMMARY REPORT

TestCode: CA_6010_TC

Sample ID: **LCS-100589** SampType: **LCS** TestCode: **CA_6010_TC** Units: **mg/L** Prep Date: **7/2/2023** RunNo: **173657**
Client ID: **LCSS** Batch ID: **100589** TestNo: **EPA 1311/ 60 EPA 3010A** Analysis Date: **7/3/2023** SeqNo: **5271469**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.480	0.050	0.5000	0	96.0	85	115				
Lead	0.498	0.050	0.5000	0	99.5	85	115				

Sample ID: **MB-100589** SampType: **MBLK** TestCode: **CA_6010_TC** Units: **mg/L** Prep Date: **7/2/2023** RunNo: **173657**
Client ID: **PBS** Batch ID: **100589** TestNo: **EPA 1311/ 60 EPA 3010A** Analysis Date: **7/3/2023** SeqNo: **5271470**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.050									
Lead	ND	0.050									

Sample ID: **MB-100537 TCLP** SampType: **MBLK** TestCode: **CA_6010_TC** Units: **mg/L** Prep Date: **7/2/2023** RunNo: **173657**
Client ID: **PBS** Batch ID: **100589** TestNo: **EPA 1311/ 60 EPA 3010A** Analysis Date: **7/3/2023** SeqNo: **5271471**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.005	0.050									
Lead	ND	0.050									

Sample ID: **N057421-019A-DUP** SampType: **DUP** TestCode: **CA_6010_TC** Units: **mg/L** Prep Date: **7/2/2023** RunNo: **173657**
Client ID: **ZZZZZZ** Batch ID: **100589** TestNo: **EPA 1311/ 60 EPA 3010A** Analysis Date: **7/3/2023** SeqNo: **5271482**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.007	0.050						0.006830	0	20	
Lead	0.042	0.050						0.04230	0	20	

Sample ID: **N057421-019A-MS** SampType: **MS** TestCode: **CA_6010_TC** Units: **mg/L** Prep Date: **7/2/2023** RunNo: **173657**
Client ID: **ZZZZZZ** Batch ID: **100589** TestNo: **EPA 1311/ 60 EPA 3010A** Analysis Date: **7/3/2023** SeqNo: **5271483**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.534	0.050	0.5000	0.006830	105	75	125				

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: American Environmental Testing Laboratory, Inc.
Work Order: N057444
Project: BEF0111.02

ANALYTICAL QC SUMMARY REPORT

TestCode: CA_6010_TC

Sample ID: **N057421-019A-MS** SampType: **MS** TestCode: **CA_6010_TC** Units: **mg/L** Prep Date: **7/2/2023** RunNo: **173657**
Client ID: **ZZZZZZ** Batch ID: **100589** TestNo: **EPA 1311/ 60 EPA 3010A** Analysis Date: **7/3/2023** SeqNo: **5271483**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.510	0.050	0.5000	0.04230	93.6	75	125				

Sample ID: **N057421-019A-MSD** SampType: **MSD** TestCode: **CA_6010_TC** Units: **mg/L** Prep Date: **7/2/2023** RunNo: **173657**
Client ID: **ZZZZZZ** Batch ID: **100589** TestNo: **EPA 1311/ 60 EPA 3010A** Analysis Date: **7/3/2023** SeqNo: **5271484**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.536	0.050	0.5000	0.006830	106	75	125	0.5338	0.337	20	
Lead	0.509	0.050	0.5000	0.04230	93.3	75	125	0.5102	0.249	20	

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

57444

AMERICAN ENVIRONMENTAL TESTING LABORATORY, LLC

2840 North Naomi Street, Burbank, CA 91504 • ELAP# 1541 • LACSD# 10181
Telephone (888) 288-AETL • (818) 845-8200 • www.aetlab.com

SUBCONTRACT CHAIN of CUSTODY

Sending Laboratory:

AETL
AETL, LLC. 2840 N. Naomi Street
Burbank, CA 91504
Phone: 818-845-8200
Project Manager: Hailley Coleman
Email: hcoleman@aetlab.com

Subcontracted Laboratory:

ASSET Laboratories
11110 Artesia Blvd.
Cerritos, CA 90703
Phone: (702)307-2659
Fax: (562)219-7435

Work Order: BEF0111 PO#SUB-35553

Analysis	Due	Expires	Comments
Sample ID: BEF0111-01 ***Soil*** ***Sampled: 06/13/2023 07:22***			5-DAY TAT
STLC-Extraction (STLC-Extraction)	06/20/2023	06/27/2023 07:22	
TCLP-Extraction (TCLP Extraction)	06/20/2023	09/21/2023 07:22	
STLC-6010B-Pb (STLC Lead by ICP)	06/20/2023	09/21/2023 07:22	N057444-001
TCLP-6010B-Pb (TCLP Lead by ICP)	06/20/2023	12/10/2023 07:22	
Containers Supplied:			
Sample ID: BEF0111-20 ***Soil*** ***Sampled: 06/13/2023 08:51***			
TCLP-6010B-As (TCLP Arsenic by ICP)	06/20/2023	06/23/2023 08:51	
STLC-Extraction (STLC-Extraction)	06/20/2023	06/27/2023 08:51	-002
TCLP-Extraction (TCLP Extraction)	06/20/2023	09/21/2023 08:51	
~~6020-As (Arsenic, total by ICP/MS)~~	06/20/2023	12/10/2023 08:51	
STLC-6010B-As (STLC Arsenic by ICP)	06/20/2023	12/10/2023 08:51	
Containers Supplied:			
Sample ID: BEF0111-21 ***Soil*** ***Sampled: 06/13/2023 08:54***			
6020-As (Arsenic, total by ICP/MS)	06/20/2023	12/10/2023 08:54	-003
Containers Supplied:			
Sample ID: BEF0111-23 ***Soil*** ***Sampled: 06/13/2023 09:04***			
STLC-Extraction (STLC-Extraction)	06/20/2023	06/27/2023 09:04	-004

Approved by: HAILLEY COLEMAN 6/27/23 4.4°C TP#1
AETL Project Manager — Date

Released By AETL Sample Control	Date	Received By Courier	Date
	6/27/23	Maibel Ramos	6/28/23 1420
Released By Courier	Date	Received By Subcontract Laboratory	Date
Maibel Ramos 6/26/23 1700	7:20pm	Maria de la Cruz 6/29/23 8:44am	

LV 1.7°C TP#3 615 8674

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SUBCONTRACT CHAIN of CUSTODY
(Continued)

Work Order: BEF0111 (Continued)

Analysis	Due	Expires	Comments
Sample ID: BEF0111-23 ***Soil*** ***Sampled: 06/13/2023 09:04***			
~~6020-As (Arsenic, total by ICP/MS)~~	06/20/2023	12/10/2023 09:04	
STLC-6010B-As (STLC Arsenic by ICP)	06/20/2023	12/10/2023 09:04	
Containers Supplied:			
Sample ID: BEF0111-24 ***Soil*** ***Sampled: 06/13/2023 09:06***			
6020-As (Arsenic, total by ICP/MS)	06/20/2023	12/10/2023 09:06	
Containers Supplied:			N057444-005
Sample ID: BEF0111-26 ***Soil*** ***Sampled: 06/13/2023 09:16***			
6020-As (Arsenic, total by ICP/MS)	06/20/2023	12/10/2023 09:16	
Containers Supplied:			-006
Sample ID: BEF0111-29 ***Soil*** ***Sampled: 06/13/2023 09:27***			
TCLP-6010B-As (TCLP Arsenic by ICP)	06/20/2023	06/23/2023 09:27	
STLC-Extraction (STLC-Extraction)	06/20/2023	06/27/2023 09:27	
TCLP-Extraction (TCLP Extraction)	06/20/2023	09/21/2023 09:27	
~~6020-As (Arsenic, total by ICP/MS)~~	06/20/2023	12/10/2023 09:27	-007
STLC-6010B-As (STLC Arsenic by ICP)	06/20/2023	12/10/2023 09:27	
Containers Supplied:			
Sample ID: BEF0111-30 ***Soil*** ***Sampled: 06/13/2023 09:29***			
TCLP-6010B-As (TCLP Arsenic by ICP)	06/20/2023	06/23/2023 09:29	
STLC-Extraction (STLC-Extraction)	06/20/2023	06/27/2023 09:29	
TCLP-Extraction (TCLP Extraction)	06/20/2023	09/21/2023 09:29	-008
STLC-6010B-As (STLC Arsenic by ICP)	06/20/2023	12/10/2023 09:29	
~~6020-As (Arsenic, total by ICP/MS)~~	06/20/2023	12/10/2023 09:29	

Approved by:

AETL Project Manager — Date

Released By AETL Sample Control — Date — Received By Courier — Date 1420

Released By Courier — Date 6/28/23 — Received By Subcontract Laboratory — Date 6/28/23 ~~1440~~ pm

Nanibel Nanibel Ramos 6/28/23 1700 2:20pm

Maria de la Campa 6/29/23 8:44am
LV 1.7°C ID#3 4258674

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SUBCONTRACT CHAIN of CUSTODY
(Continued)

Work Order: BEF0111 (Continued)

Analysis	Due	Expires	Comments
Containers Supplied:			
Sample ID: BEF0111-31 ***Soil Sampled: 06/13/2023 09:31***			
6020-As (Arsenic, total by ICP/MS)	06/20/2023	12/10/2023 09:31	N057444-009
Containers Supplied:			
Sample ID: BEF0111-33 ***Soil Sampled: 06/13/2023 09:39***			
6020-As (Arsenic, total by ICP/MS)	06/20/2023	12/10/2023 09:39	-010
Containers Supplied:			
~~**Sample ID: BEF0111-36**~~ ***Soil Sampled: 06/13/2023 10:39***			
~~6020-As (Arsenic, total by ICP/MS)~~	06/20/2023	12/10/2023 10:39	
Containers Supplied:			
Sample ID: BEF0111-37 ***Soil Sampled: 06/13/2023 10:41***			
6020-As (Arsenic, total by ICP/MS)	06/20/2023	12/10/2023 10:41	
Containers Supplied:			-011
~~**Sample ID: BEF0111-39**~~ ***Soil Sampled: 06/13/2023 10:49***			
~~6020-As (Arsenic, total by ICP/MS)~~	06/20/2023	12/10/2023 10:49	
Containers Supplied:			
Sample ID: BEF0111-40 ***Soil Sampled: 06/13/2023 10:51***			
6020-As (Arsenic, total by ICP/MS)	06/20/2023	12/10/2023 10:51	-012

Approved by:

AETL Project Manager _____ Date _____

Released By AETL Sample Control _____ Date _____ Received By Courier _____ Date _____

[signature] 6/28/23 [signature] Manibel R. 6/28/23 1420

Released By Courier _____ Date _____ Received By Subcontract Laboratory _____ Date _____

Manibel Manibel Ramos 6/28/23 1700 2:20pm Manuel de la Campa 6/29/23 8:44 am

2V 1.7°C, RH3 6258674

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SUBCONTRACT CHAIN of CUSTODY
(Continued)

Work Order: BEF0111 (Continued)

Analysis	Due	Expires	Comments
Containers Supplied:			
~~**Sample ID: BEF0111-42**~~ ***Soil*** ***Sampled: 06/13/2023 11:02***			
~~6020-As (Arsenic, total by ICP/MS)~~	06/20/2023	12/10/2023 11:02	
Containers Supplied:			
Sample ID: BEF0111-43 ***Soil*** ***Sampled: 06/13/2023 11:04***			
6020-As (Arsenic, total by ICP/MS)	06/20/2023	12/10/2023 11:04	N057444-013
Containers Supplied:			
Sample ID: BEF0111-45 ***Soil*** ***Sampled: 06/13/2023 11:14***			
STLC-Extraction (STLC-Extraction)	06/20/2023	06/27/2023 11:14	
~~6020-As (Arsenic, total by ICP/MS)~~	06/20/2023	12/10/2023 11:14	-014
STLC-6010B-As (STLC Arsenic by ICP)	06/20/2023	12/10/2023 11:14	
Containers Supplied:			
Sample ID: BEF0111-46 ***Soil*** ***Sampled: 06/13/2023 11:16***			
6020-As (Arsenic, total by ICP/MS)	06/20/2023	12/10/2023 11:16	
Containers Supplied:			-015
Sample ID: BEF0111-48 ***Soil*** ***Sampled: 06/13/2023 12:16***			
STLC-Extraction (STLC-Extraction)	06/20/2023	06/27/2023 12:16	
STLC-6010B-Pb (STLC Lead by ICP)	06/20/2023	09/21/2023 12:16	-016
Containers Supplied:			
~~**Sample ID: BEF0111-55**~~ ***Soil*** ***Sampled: 06/13/2023 12:50***			

Approved by:
AETL Project Manager — Date

Released By AETL Sample Control — Date — Received By Courier — Date

[signature] — 6/28/23 — [signature] — 6/28/23 1420

Released By Courier — Date — Received By Subcontract Laboratory — Date

Maribel Maribel Ramos 6/28/23 1700 2:20pm — Maria De la Campa 6/28/23 8:44am
w 1.7°C in #3 615 8674

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SUBCONTRACT CHAIN of CUSTODY
(Continued)

Work Order: BEF0111 (Continued)

Analysis	Due	Expires	Comments
~~Sample ID: BEF0111-55~~ ***Soil*** ***Sampled: 06/13/2023 12:50***			
~~6020 As (Arsenic, total by ICP/MS)~~	06/20/2023	12/10/2023 12:50	
Containers Supplied:			

Approved by: _____ _____
AETL Project Manager Date

Released By AETL Sample Control	Date	Received By Courier	Date
	6/28/23	Maribel Ramos	6/28/23 1420
Released By Courier	Date	Received By Subcontract Laboratory	Date
Maribel Maribel Ramos 6/28/23 1700	2:00pm	Maria de la Cruz 6/29/23 8:44am LV 1.7°C IR#3 6258674	

ASSET Laboratories

Please review the checklist below. Any NO signifies non-compliance. Any non-compliance will be noted and must be understood as having an impact on the quality of the data. All tests will be performed as requested regardless of any compliance issues.

If you have any questions or further instruction, please contact our Project Coordinator at (702) 307-2659.

Cooler Received/Opened On:	6/28/2023	Workorder:	N057444
Rep sample Temp (Deg C):	4.4	IR Gun ID:	1
Temp Blank:	☐ Yes ☑ No		
Carrier name:	Walk-In		
Last 4 digits of Tracking No.:	NA	Packing Material Used:	None
Cooling process:	☑ Ice ☐ Ice Pack ☐ Dry Ice ☐ Other ☐ None		

Sample Receipt Checklist

1. Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
2. Custody seals intact, signed, dated on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
3. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
4. Chain of custody present?	Yes ☑	No ☐	
5. Sampler's name present in COC?	Yes ☐	No ☑	
6. Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
7. Chain of custody agrees with sample labels?	Yes ☑	No ☐	
8. Samples in proper container/bottle?	Yes ☑	No ☐	
9. Sample containers intact?	Yes ☑	No ☐	
10. Sufficient sample volume for indicated test?	Yes ☑	No ☐	
11. All samples received within holding time?	Yes ☑	No ☐	
12. Temperature of rep sample or Temp Blank within acceptable limit?	Yes ☑	No ☐	NA ☐
13. Water - VOA vials have zero headspace?	Yes ☐	No ☐	NA ☑
14. Water - pH acceptable upon receipt? Example: pH > 12 for (CN,S); pH<2 for Metals	Yes ☐	No ☐	NA ☑
15. Did the bottle labels indicate correct preservatives used?	Yes ☐	No ☐	NA ☑
16. Were there Non-Conformance issues at login?	Yes ☑	No ☐	NA ☐
Was Client notified?	Yes ☐	No ☐	NA ☑

Comments: Received at Las Vegas Lab on 06/29/23 at 1.7 C, IR#3, GSO#8674

Checklist Completed By: FOR MR 6/29/2023

Reviewed By: [redacted]

ASSET Laboratories

WORK ORDER Summary

30-Jun-23

WorkOrder: N057444

Client ID: AETL01

Project: BEF0111.02 **QC Level:** RTNE **Date Received:** 6/28/2023 2:20 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N057444-001A	BEF0111-01	6/13/2023 7:22:00 AM	7/6/2023	Soil	EPA 1311	TCLP Sample Prep Metals	☐	☐	☐	WS-CA
			7/6/2023		EPA 3010A	AQPrep for Total Metals: ICP for STLC Extracts	☐	☐	☐	WS-CA
			7/6/2023		EPA 3010A	AQPrep for Total Metals	☐	☐	☐	WS-CA
			7/6/2023		WET/ EPA 6010B	ICP METALS by STLC	☐	☐	☐	WS-CA
			7/6/2023		EPA 1311/ 6010B	ICP METALS by TCLP Extraction	☐	☐	☐	WS-CA
			7/6/2023		WET	STLC Sample Prep Metals	☐	☐	☐	WS-CA
N057444-002A	BEF0111-20	6/13/2023 8:51:00 AM	7/6/2023		EPA 1311	TCLP Sample Prep Metals	☐	☐	☐	WS-CA
			7/6/2023		EPA 3010A	AQPrep for Total Metals: ICP for STLC Extracts	☐	☐	☐	WS-CA
			7/6/2023		EPA 3010A	AQPrep for Total Metals	☐	☐	☐	WS-CA
			7/6/2023		WET/ EPA 6010B	ICP METALS by STLC	☐	☐	☐	WS-CA
			7/6/2023		EPA 1311/ 6010B	ICP METALS by TCLP Extraction	☐	☐	☐	WS-CA
			7/6/2023		WET	STLC Sample Prep Metals	☐	☐	☐	WS-CA
N057444-003A	BEF0111-21	6/13/2023 8:54:00 AM	7/6/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			7/6/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057444-004A	BEF0111-23	6/13/2023 9:04:00 AM	7/6/2023		EPA 3010A	AQPrep for Total Metals: ICP for STLC Extracts	☐	☐	☐	WS-CA
			7/6/2023		WET/ EPA 6010B	ICP METALS by STLC	☐	☐	☐	WS-CA
			7/6/2023		WET	STLC Sample Prep Metals	☐	☐	☐	WS-CA
N057444-005A	BEF0111-24	6/13/2023 9:06:00 AM	7/6/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			7/6/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057444-006A	BEF0111-26	6/13/2023 9:16:00 AM	7/6/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			7/6/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS

WORK ORDER Summary

30-Jun-23

WorkOrder: N057444

Client ID: AETL01

Project: BEF0111.02 **QC Level:** RTNE **Date Received:** 6/28/2023 2:20 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N057444-007A	BEF0111-29	6/13/2023 9:27:00 AM	7/6/2023	Soil	EPA 1311	TCLP Sample Prep Metals	☐	☐	☐	WS-CA
			7/6/2023		EPA 3010A	AQPrep for Total Metals: ICP for STLC Extracts	☐	☐	☐	WS-CA
			7/6/2023		EPA 3010A	AQPrep for Total Metals	☐	☐	☐	WS-CA
			7/6/2023		WET/ EPA 6010B	ICP METALS by STLC	☐	☐	☐	WS-CA
			7/6/2023		EPA 1311/ 6010B	ICP METALS by TCLP Extraction	☐	☐	☐	WS-CA
			7/6/2023		WET	STLC Sample Prep Metals	☐	☐	☐	WS-CA
N057444-008A	BEF0111-30	6/13/2023 9:29:00 AM	7/6/2023		EPA 1311	TCLP Sample Prep Metals	☐	☐	☐	WS-CA
			7/6/2023		EPA 3010A	AQPrep for Total Metals: ICP for STLC Extracts	☐	☐	☐	WS-CA
			7/6/2023		EPA 3010A	AQPrep for Total Metals	☐	☐	☐	WS-CA
			7/6/2023		WET/ EPA 6010B	ICP METALS by STLC	☐	☐	☐	WS-CA
			7/6/2023		EPA 1311/ 6010B	ICP METALS by TCLP Extraction	☐	☐	☐	WS-CA
			7/6/2023		WET	STLC Sample Prep Metals	☐	☐	☐	WS-CA
N057444-009A	BEF0111-31	6/13/2023 9:31:00 AM	7/6/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			7/6/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057444-010A	BEF0111-33	6/13/2023 9:39:00 AM	7/6/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			7/6/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057444-011A	BEF0111-37	6/13/2023 10:41:00 AM	7/6/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			7/6/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057444-012A	BEF0111-40	6/13/2023 10:51:00 AM	7/6/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			7/6/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057444-013A	BEF0111-43	6/13/2023 11:04:00 AM	7/6/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS

ASSET Laboratories

WORK ORDER Summary

30-Jun-23

WorkOrder: N057444

Client ID: AETL01

Project: BEF0111.02 **QC Level:** RTNE **Date Received:** 6/28/2023 2:20 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N057444-013A	BEF0111-43	6/13/2023 11:04:00 AM	7/6/2023	Soil	EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057444-014A	BEF0111-45	6/13/2023 11:14:00 AM	7/6/2023		EPA 3010A	AQPrep for Total Metals: ICP for STLC Extracts	☐	☐	☐	WS-CA
			7/6/2023		WET/ EPA 6010B	ICP METALS by STLC	☐	☐	☐	WS-CA
			7/6/2023		WET	STLC Sample Prep Metals	☐	☐	☐	WS-CA
N057444-015A	BEF0111-46	6/13/2023 11:16:00 AM	7/6/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			7/6/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057444-016A	BEF0111-48	6/13/2023 12:16:00 AM	7/6/2023		EPA 3010A	AQPrep for Total Metals: ICP for STLC Extracts	☐	☐	☐	WS-CA
			7/6/2023		WET/ EPA 6010B	ICP METALS by STLC	☐	☐	☐	WS-CA
			7/6/2023		WET	STLC Sample Prep Metals	☐	☐	☐	WS-CA
N057444-017A	FOLDER	7/6/2023	7/6/2023		Folder	Folder	☐	☐	☐	LAB
			7/6/2023		Folder	Folder	☐	☐	☐	LAB

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Ship From
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THAD MALIT
11110 ARTESIA BLVD. SUITE B
CERRITOS, CA 90703

Ship To
ASSET LABORATORIES
SAMPLE CONTROL-LV
3151 W. POST RD.,
LAS VEGAS, NV 89118

COD: $0.00
Weight: 0 lb(s)
Reference:

Delivery Instructions:
HOLD FOR PICKUP
Signature Type: STANDARD

Tracking #: 559678674

PDS

1.7°C
8:44am

LAS VEGAS

D00006O

89000329

LVS NV891-068

Print Date: 6/28/2023 4:47 PM

LABEL INSTRUCTIONS:

Do not copy or reprint this label for additional shipments - each package must have a unique barcode.
Step 1: Use the "Print Label" button on this page to print the shipping label on a laser or inkjet printer.
Step 2: Fold this page in half.
Step 3: Securely attach this label to your package and do not cover the barcode.

TERMS AND CONDITIONS:

By giving us your shipment to deliver, you agree to all of the General Logistics Systems US, Inc. (GLS) service terms & conditions including, but not limited to; limits of liability, declared value conditions, and claim procedures which are available on our website at www.gls-us.com.

June 30, 2023

Hailley Coleman
American Environmental Testing Laboratory, Inc.
2834 N. Naomi Street
Burbank, CA 91504

TEL: (818) 845-8200
FAX:

Workorder No.: N057364

RE: BEF0111.01

Attention: Hailley Coleman

Enclosed are the results for sample(s) received on June 26, 2023 by ASSET Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562) 219-7435 if I can be of further assistance to your company.

Sincerely,

for

Ferdinand Paul Lugtu
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and ASSET Laboratories - California.

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

All sample containers were received intact with proper chain of custody documentation.

Information on sample receipt conditions including discrepancies can be found in attached Sample Receipt Checklist Form.

Cooler temperature and sample preservation were verified upon receipt of samples if applicable.

Samples were analyzed within method holding time.

CLIENT: American Environmental Testing Laborator
Project: BEF0111.01
Lab Order: N057364
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N057364-001A	BEF0111-55	Soil	6/13/2023 12:50:00 PM	6/26/2023	6/30/2023

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0111-55
Lab Order:	N057364		
Project:	BEF0111.01	**Collection Date:**	6/13/2023 12:50:00 PM
Lab ID:	N057364-001	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230628D	QC Batch: 100516			PrepDate:	6/28/2023	Analyst: **DJ**
Arsenic	5.0	0.50		mg/Kg	1	6/29/2023 04:25 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: American Environmental Testing Laboratory, Inc.
Work Order: N057364
Project: BEF0111.01

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_S_PPM

Sample ID: **MB-100516**	SampType: **MBLK**	TestCode: **6020_S_PPM**	Units: **mg/Kg**	Prep Date: **6/28/2023**	RunNo: **173557**
Client ID: **PBS**	Batch ID: **100516**	TestNo: **EPA 6020**	**EPA 3050B**	Analysis Date: **6/29/2023**	SeqNo: **5265844**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.50									

Sample ID: **LCS-100516**	SampType: **LCS**	TestCode: **6020_S_PPM**	Units: **mg/Kg**	Prep Date: **6/28/2023**	RunNo: **173557**
Client ID: **LCSS**	Batch ID: **100516**	TestNo: **EPA 6020**	**EPA 3050B**	Analysis Date: **6/29/2023**	SeqNo: **5265845**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	5.002	0.50	5.000	0	100	85	115				

Sample ID: **N057413-001A-MS**	SampType: **MS**	TestCode: **6020_S_PPM**	Units: **mg/Kg**	Prep Date: **6/28/2023**	RunNo: **173557**
Client ID: **ZZZZZZ**	Batch ID: **100516**	TestNo: **EPA 6020**	**EPA 3050B**	Analysis Date: **6/29/2023**	SeqNo: **5265850**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	8.486	0.50	4.998	4.091	87.9	75	125				

Sample ID: **N057413-001A-MSD**	SampType: **MSD**	TestCode: **6020_S_PPM**	Units: **mg/Kg**	Prep Date: **6/28/2023**	RunNo: **173557**
Client ID: **ZZZZZZ**	Batch ID: **100516**	TestNo: **EPA 6020**	**EPA 3050B**	Analysis Date: **6/29/2023**	SeqNo: **5265851**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	9.146	0.50	5.003	4.091	101	75	125	8.486	7.49	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

57364

AMERICAN ENVIRONMENTAL TESTING LABORATORY, LLC
2840 North Naomi Street, Burbank, CA 91504 • ELAP# 1541 • LACSD# 10181
Telephone (888) 288-AETL • (818) 845-8200 • www.aetlab.com

SUBCONTRACT CHAIN of CUSTODY

Sending Laboratory:

AETL
AETL, LLC. 2840 N. Naomi Street
Burbank, CA 91504
Phone: 818-845-8200

Project Manager: Hailley Coleman
Email: hcoleman@aetlab.com

Subcontracted Laboratory:

ASSET Laboratories
11110 Artesia Blvd.
Cerritos, CA 90703
Phone: (702)307-2659
Fax: (562)219-7435

SAMPLE 55 ONLY

Work Order: BEF0111.01 PO#SUB-35539

Analysis	Due	Expires	Comments
~~Sample ID: BEF0111-20~~ *Soil* *Sampled: 06/13/2023 08:51*			5-DAY TAT
6020-As (Arsenic, total by ICP/MS)	06/20/2023	12/10/2023 08:51	
Containers Supplied:			
~~Sample ID: BEF0111-23~~ *Soil* *Sampled: 06/13/2023 09:04*			
6020-As (Arsenic, total by ICP/MS)	06/20/2023	12/10/2023 09:04	
Containers Supplied:			
~~Sample ID: BEF0111-29~~ *Soil* *Sampled: 06/13/2023 09:27*			
6020-As (Arsenic, total by ICP/MS)	06/20/2023	12/10/2023 09:27	
Containers Supplied:			
~~Sample ID: BEF0111-30~~ *Soil* *Sampled: 06/13/2023 09:29*			
6020-As (Arsenic, total by ICP/MS)	06/20/2023	12/10/2023 09:29	
Containers Supplied:			
~~Sample ID: BEF0111-36~~ *Soil* *Sampled: 06/13/2023 10:39*			
6020-As (Arsenic, total by ICP/MS)	06/20/2023	12/10/2023 10:39	

Approved by: HAILLEY COLEMAN 6/23/23 CA: 5.8°C IR#1
AETL Project Manager Date

Released By AETL Sample Control — Date 6/26/23 1200

Released By Courier Manibel Ramos — Date 6/26/23 1330

Received By Courier Manibel Ramos — Date 6/26/23 1200

Received By Subcontract Laboratory — Date

Manibel Ramos 6/27/23 8:05 am
LV 4.5°C IR#3615908

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SUBCONTRACT CHAIN of CUSTODY
(Continued)

Work Order: BEF0111 (Continued)

Analysis	Due	Expires	Comments
Containers Supplied:			
~~Sample ID: BEF0111-39~~ ***Soil Sampled: 06/13/2023 10:49***			
6020-As (Arsenic, total by ICP/MS)	06/20/2023	12/10/2023 10:49	
Containers Supplied:			
~~Sample ID: BEF0111-42~~ ***Soil Sampled: 06/13/2023 11:02***			
6020-As (Arsenic, total by ICP/MS)	06/20/2023	12/10/2023 11:02	
Containers Supplied:			
~~Sample ID: BEF0111-45~~ ***Soil Sampled: 06/13/2023 11:14***			
6020-As (Arsenic, total by ICP/MS)	06/20/2023	12/10/2023 11:14	
Containers Supplied:			
Sample ID: BEF0111-55 ***Soil Sampled: 06/13/2023 12:50***			N057364-001
6020-As (Arsenic, total by ICP/MS)	06/20/2023	12/10/2023 12:50	
Containers Supplied:			

CA: 5.8° C IR#1

Approved by:
AETL Project Manager — Date

Released By AETL Sample Control — Date 6-26-23 1200 — Received By Courier — Date 6/26/23 1200

Released By Courier — Date 6/26/23 1730 — Received By Subcontract Laboratory — Date 6/27/23 8:05 am

Maribel Maribel Ramos 6/26/23

Maribel Maribel Ramos 6/27/23 8:05 am

LV 4.5°C IR#3 6469088

ASSET Laboratories

Please review the checklist below. Any NO signifies non-compliance. Any non-compliance will be noted and must be understood as having an impact on the quality of the data. All tests will be performed as requested regardless of any compliance issues.

If you have any questions or further instruction, please contact our Project Coordinator at (702) 307-2659.

Cooler Received/Opened On:	6/26/2023	Workorder:	N057364
Rep sample Temp (Deg C):	5.8	IR Gun ID:	1
Temp Blank:	☐ Yes ☑ No		
Carrier name:	Walk-In		
Last 4 digits of Tracking No.:	NA	Packing Material Used:	None
Cooling process:	☑ Ice ☐ Ice Pack ☐ Dry Ice ☐ Other ☐ None		

Sample Receipt Checklist

1. Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
2. Custody seals intact, signed, dated on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
3. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
4. Chain of custody present?	Yes ☑	No ☐	
5. Sampler's name present in COC?	Yes ☐	No ☑	
6. Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
7. Chain of custody agrees with sample labels?	Yes ☑	No ☐	
8. Samples in proper container/bottle?	Yes ☑	No ☐	
9. Sample containers intact?	Yes ☑	No ☐	
10. Sufficient sample volume for indicated test?	Yes ☑	No ☐	
11. All samples received within holding time?	Yes ☑	No ☐	
12. Temperature of rep sample or Temp Blank within acceptable limit?	Yes ☑	No ☐	NA ☐
13. Water - VOA vials have zero headspace?	Yes ☐	No ☐	NA ☑
14. Water - pH acceptable upon receipt? Example: pH > 12 for (CN,S); pH<2 for Metals	Yes ☐	No ☐	NA ☑
15. Did the bottle labels indicate correct preservatives used?	Yes ☐	No ☐	NA ☑
16. Were there Non-Conformance issues at login?	Yes ☑	No ☐	NA ☐
Was Client notified?	Yes ☐	No ☐	NA ☑

Comments: Received at Las Vegas Lab on 6/27/23 at 4.5°C, IR#3 via GSO#9088.

Checklist Completed By: MR 6/27/2023

Reviewed By:

ASSET Laboratories

WORK ORDER Summary

27-Jun-23

WorkOrder: N057364

Client ID: AETL01

Project: BEF0111.01 **QC Level:** RTNE **Date Received:** 6/26/2023 12:00 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N057364-001A	BEF0111-55	6/13/2023 12:50:00 PM	7/3/2023	Soil	EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			7/3/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057364-002A	FOLDER	7/3/2023	7/3/2023		Folder	Folder	☐	☐	☐	LAB
			7/3/2023		Folder	Folder	☐	☐	☐	LAB

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Ship From
ASSET LABORATORIES
THAD MALIT
11110 ARTESIA BLVD. SUITE B
CERRITOS, CA 90703

Ship To
ASSET LABORATORIES
MARLON CARTIN
3151 W. POST RD.,
LAS VEGAS, NV 89118

COD: $0.00
Weight: 0 lb(s)
Reference:

Delivery Instructions:
HOLD FOR PICKUP
Signature Type: STANDARD

Tracking #: 559659088

PDS

4.5°C
6/27/23 8:05am

LAS VEGAS

D00006O

88831436

LVS NV891-068

Print Date: 6/26/2023 4:33 PM

LABEL INSTRUCTIONS:

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Step 1: Use the "Print Label" button on this page to print the shipping label on a laser or inkjet printer.
Step 2: Fold this page in half.
Step 3: Securely attach this label to your package and do not cover the barcode.

TERMS AND CONDITIONS:

By giving us your shipment to deliver, you agree to all of the General Logistics Systems US, Inc. (GLS) service terms & conditions including, but not limited to; limits of liability, declared value conditions, and claim procedures which are available on our website at www.gls-us.com.

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July 17, 2023

AETL Job No: BEF0111.02
Received Date: 06/13/2023
Project Number: [none]

Parsons
100 West Walnut Street
Pasadena, CA 91124
Telephone: (626) 440-6200

Attention: Justin King

Project Name: LASUD Canoga

Site: Canoga Park High School
6850 CA-27
Canoga Park, CA 91303

Enclosed please find the results of analyses for samples which were analyzed as specified on the attached chain of custody. If you have any questions concerning this report, please do not hesitate to call.

Checked By: Hailley Coleman
Project Manager

Approved By: Joe Sevrean
Laboratory Director

Table of Contents

Client Project Name: Canoga Park High School Project Number: [none]
Work Order Number: BEF0111

1 Cover Letter 1
2 Sample Condition on Receipt 3
3 Chain of Custody 4
4 Cooler Receipt Forms 9
5 Case Narrative 10
6 Samples Received 11
7 Positive Hits Summary 14
8 Analytical Results 15
9 Qualifiers and Definitions 16
10 Sub Contracted Analysis 18

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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEF0111 [none] Justin King LASUD Canoga	Site: Reported:	Canoga Park High School 6850 CA-27 Canoga Park, CA 91303 07/17/2023 18:30

Sample Condition on Receipt

Cooler ID: Default Cooler **Temperature: 5.8 °C**

Are the COCs Correct	Y		
Labels Legible	Y	Containers In Good Condition	Y
COC/Labels Agree	Y	Samples Preserved Properly	Y
Sufficient Sample Volume	Y	Sufficient Holding Time for all Tests	Y
Sample Labels intact	Y	Received on Ice	Y

Cooler ID: New Cooler **Temperature: 5.7 °C**

Are the COCs Correct	Y		
Labels Legible	Y	Containers In Good Condition	Y
COC/Labels Agree	Y	Samples Preserved Properly	Y
Sufficient Sample Volume	Y	Sufficient Holding Time for all Tests	Y
Sample Labels intact	Y	Received on Ice	Y

Cooler ID: New Cooler [1] **Temperature: 5.8 °C**

Are the COCs Correct	Y		
Labels Legible	Y	Containers In Good Condition	Y
COC/Labels Agree	Y	Samples Preserved Properly	Y
Sufficient Sample Volume	Y	Sufficient Holding Time for all Tests	Y
Sample Labels intact	Y	Received on Ice	Y

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

AMERICAN ENVIRONMENTAL TESTING LABORATORY
2834 NORTH NAOMI ST. BURBANK, CALIFORNIA 91504 DHS # 1541 LACSD# 10181
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CHAIN OF CUSTODY RECORD

111395

AETL JOB No. BEF0111

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut St. Pasadena, CA 91124
PHONE FAX: (310) 809-5793
PROJECT NAME: LAUSD Canoga
PROJECT #:
SITE NAME AND ADDRESS: Canoga Park Highschool 6850 CA-27 Canoga Park, CA 91303
PO #:

ANALYSIS REQUESTED

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	STLC-Pb	TCLP-Pb							TEST INSTRUCTIONS & COMMENTS
1	SB-39-N5-D0.5	BEF0111-01	6/13/2023	0722	Soil	1 x 9oz	NONE	X		X	X							
2	SB-39-N5-D2.0	-02		0724				X										Hold
3	SB-39-N5-D3.0	-03		0727														Hold
4	SB-39-N10-D0.5	-04		0737				X										Hold
5	SB-39-N10-D2.0	-05		0739														Hold
6	SB-39-N10-D3.0	-06		0741														Hold
7	SB-39-S5-D0.5	-07		0747				X										
8	SB-39-S5-D0.5-DUP	-08		0749				X										
9	SB-39-S5-D2.0	-09		0751														Hold
10	SB-39-S5-D3.0	-10		0753														Hold
11	SB-39-S10-D0.5	-11		0804														Hold
12	SB-39-S10-D2.0	-12		0806														Hold
13	SB-39-S10-D3.0	-13		0808														Hold
14	~~SB-39-E10-D~~																	
15	SB-39-E5-D0.5	-14		0819				X										

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y/ N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: E. Salmon	Signature:	Signature:
Printed Name: Edward Debrys	Printed Name:	Printed Name:
Date: 6/13/23 Time: 1500	Date: Time:	Date: Time:

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: 3.
Signature:	Signature:	Signature: AETL
Printed Name:	Printed Name:	Printed Name: Gretta Lainez Gonsicon
Date: Time:	Date: Time:	Date: 6/13/23 Time: 15:00

TURN AROUND TIME

☑ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY
☐ PDF
☐ GEOTRACKER (GLOBAL ID) _____
☐ OTHER (PLEASE SPECIFY) _____

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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TEL (888) 288-AETL (818) 845-8200 FAX (818) 845-8840 www.aetlab.com

CHAIN OF CUSTODY RECORD

111397

AETL JOB No. BEF0111

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut St. Pasadena, CA 91124
PHONE: (310) 809-5793
FAX:
PROJECT NAME: LAUSD Canoga
PROJECT #:
SITE NAME AND ADDRESS: Canoga Park Highschool 6850 CA-27, Canoga Park, CA 91303
PO #:

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	STLC-Pb	TCLP-Pb	STLC-As	TCLP-As	TEST INSTRUCTIONS & COMMENTS
1	SB-39-ES-D0.0	BEF0111-15	6/13/2023	0821	Soil	1x9oz	none							Hold
2	SB-39-ES-D3.0	-16		0823										Hold
3	SB-39-E10-D0.5	-17		0831										Hold
4	SB-39-E10-D2.0	18		0833										Hold
5	SB-39-E10-D3.0	19		0835										Hold
6	SB-38-S10-D0.5	20		0851					X			X	X	
7	SB-38-S10-D2.0	21		0854					X					Hold
8	SB-38-S10-D3.0	22		0856					X					Hold
9	SB-38-N5-D0.5	23		0904					X			X		
10	SB-38-N5-D2.0	24		0906					X			X		Hold
11	SB-38-N5-D3.0	25		0909					X					Hold
12	SB-38-N10-D0.5	26		0916					X			X	X	Hold
13	SB-38-N10-D2.0	27		0918					X					Hold
14	SB-38-N10-D3.0	28		0920										Hold
15	SB-38-W5-D0.5	29	↓	0927	↓	↓	↓		X			X	X	

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y/ N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

TURN AROUND TIME

☐ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY ☐ PDF ☐ GEOTRACKER (GLOBAL ID) _____ ☐ OTHER (PLEASE SPECIFY) _____

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: E. Flores	Signature:	Signature:
Printed Name: Edward Davis	Printed Name:	Printed Name:
Date: 6/13/2023 Time: 1500	Date: Time:	Date: Time:
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: 3.**
Signature:	Signature:	Signature: AETL
Printed Name:	Printed Name:	Printed Name: Greta Grayson
Date: Time:	Date: Time:	Date: 6/13/23 Time: 15:00

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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CHAIN OF CUSTODY RECORD

111801

AETL JOB No. BEF0111

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut Street Pasadena, CA 91124
PHONE / FAX: (310) 809-5793
PROJECT NAME: LAVSD Canoga
PROJECT #:
SITE NAME AND ADDRESS: Canoga Park Highschool 6850 CA 27 Canoga Park, CA 91303
PO #:

ANALYSIS REQUESTED

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	STLC-Pb	TCLP-Pb	STLC-As	TCLP-As					TEST INSTRUCTIONS & COMMENTS
1	SB-38-W5-D0.5-DUP	BEF0111-30	6/13/2023	0929	Soil	1 X 9oz	none		X			X	X					
2	SB-38-W5-D2.0	31		0931					X			X						Hold
3	SB-38-W5-D3.0	32		0933					X									Hold
4	SB-38-W10-D0.5	33		0939					X									Hold
5	SB-38-W10-D2.0	34		0941														Hold
6	SB-38-W10-D3.0	35		0943														Hold
7	SB-51-N5-D0.5	36		1039					X									
8	SB-51-N5-D2.0	37		1041					X									Hold
9	SB-51-N5-D3.0	38		1043														Hold
10	SB-51-S5-D0.5	39		1049					X									
11	SB-51-S5-D2.0	40		1051					X									Hold
12	SB-51-S5-D3.0	41		1053														Hold
13	SB-51-E5-D0.5	42		1102					X									
14	SB-51-E5-D2.0	43		1104					X									Hold
15	SB-51-E5-D3.0	44		1107														Hold

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y/ N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: [signature]	Signature:	Signature:
Printed Name: Edward Dabsys	Printed Name:	Printed Name:
Date: 6/13/2023 Time: 1500	Date: Time:	Date: Time:

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: 3.
Signature:	Signature:	Signature: [signature] AETL
Printed Name:	Printed Name:	Printed Name: Greta Pirozzi
Date: Time:	Date: Time:	Date: 6/13/23 Time: 15:00

TURN AROUND TIME
☑ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED
☐ HARD COPY
☐ PDF
☐ GEOTRACKER (GLOBAL ID) _____
☐ OTHER (PLEASE SPECIFY) _____

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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CHAIN OF CUSTODY RECORD

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut St. Pasadena, CA 91124
PHONE EMAIL: (310) 809-5793
PROJECT NAME: LAUSD Canoga
PROJECT #:
SITE NAME AND ADDRESS: Canoga Park Highschool 6850 CA-27 Canoga Park, CA 91303
PO #:

AETL JOB No. BEF0111

ANALYSIS REQUESTED

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	STLC-Pb	TLLP-Pb	STLC-As	TLLP-As					TEST INSTRUCTIONS & COMMENTS
1	SB-51-W5-D0.5	BEF0111-45	6/13/2023	1114	Soil	1 x 9oz	NONE		X			X	X					
2	SB-51-W5-D2.0	46		1116					X			X	X					Hold
3	SB-51-W5-D3.0	47		1118					X									Hold
4	SB-3-NW5-D0.5	48		1216				X		X								
5	SB-3-NW5-D0.5-Dup	49		1218				X										
6	SB-3-NW5-D2.0	50		1220				X										Hold
7	SB-3-NW5-D3.0	51		1222														Hold
8	SB-3-NW10-D0.5	52		1230														Hold
9	SB-3-NW10-D2.0	53		1232														Hold
10	SB-3-NW10-D3.0	54		1235														Hold
11	SB-20-S5-D0.5	55		1250					X									
12	SB-20-S5-D2.0	56		1252														
13	SB-20-S5-D3.0	57		1254														
14	SB-20-S10-D0.5	58		1302														
15	SB-20-S10-D2.0	59		1304														

TOTAL NUMBER OF CONTAINERS: 15

BILLING INFORMATION / SPECIAL INSTRUCTIONS

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: [signature]	Signature:	Signature:
Printed Name: Edward Dabsys	Printed Name:	Printed Name:
Date: 6/13/2023 Time: 1500	Date: Time:	Date: Time:

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: 3.
Signature:	Signature:	Signature: [signature]
Printed Name:	Printed Name:	Printed Name: [signature]
Date: Time:	Date: Time:	Date: 6/13/23 Time: 15:00

TURN AROUND TIME
- ☐ NORMAL
- ☐ SAME DAY RUSH
- ☐ NEXT DAY RUSH
- ☐ 2 DAYS RUSH
- ☐ 3 DAYS RUSH
- ☐ 4 DAYS RUSH

DATA DELIVERABLE REQUIRED
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- ☐ E-COPY
- ☐ GEOTRACKER (GLOBAL ID) _____
- ☐ OTHER (PLEASE SPECIFY) _____

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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CHAIN OF CUSTODY RECORD

111396

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut Street. Pasadena, CA 91124
PHONE / FAX: (310) 809-5793
PROJECT NAME: LAUSD Canoga Park
PROJECT #:
SITE NAME AND ADDRESS: Canoga Park Highschool 6850 CA-27, Canoga Park, CA 91303
PO #:

AETL JOB No. BEF0111

Page 5 of 5

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1	~~SB-ES-000 E.D.~~						
2	~~SB-ES-050 E.D.~~						
3	SB-20-S10-D30	BEF0111-100	6/13/2023	1307	Soil	1x9oz	none
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

ANALYSIS REQUESTED

- Lead (6010B)
- Arsenic (6020)

TEST INSTRUCTIONS & COMMENTS

E.D.
E.D.
Hold

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y/ N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

TURN AROUND TIME

☑ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY ☐ PDF ☐ GEOTRACKER (GLOBAL ID) _____ ☐ OTHER (PLEASE SPECIFY) _____

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: G. Gabr	Signature:	Signature:
Printed Name: Edward Dabis	Printed Name:	Printed Name:
Date: 6/13/2023 Time: 1500	Date: Time:	Date: Time:
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: 3.**
Signature:	Signature:	Signature:
Printed Name:	Printed Name:	Printed Name: Teresa Rodriguez
Date: Time:	Date: Time:	Date: 6/13/23 Time: 16:05

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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COOLER RECEIPT FORM

Client Name: Parsons

Project Name: Lausd Canoga Project No.:

AETL Job Number: BEF0111

Date Received: 06/13/2023 Received by: Greta G

Carrier: ☐ AETL Courier ☑ Client ☐ GSL ☐ FedEx ☐ UPS
☐Others:

Samples were received in: ☑ Cooler (1) ☐ Other (Specify):

Sample Container Temperature: 5.8 °C IR Gun S/N: 51941911MV

Type of sample containers: ☐ VOA, ☐ Glass bottles, ☑Wide mouth jars, ☐HDPE bottles, ☐ Metal sleeves, ☐ Acetate sleeves, ☐ 5035 Kit: ☐ AETL or ☐ Client, ☐ Tedlar Bags, Summa Canister: ☐ 6L, ☐ 3L, ☐ 1L, Others (Specify): _____

How are samples preserved: ☐ None, ☑ Ice, ☐ Blue Ice, ☐ Dry Ice
☑ None, ☐ HNO_3, ☐ NaOH, ☐ ZnOAc, ☐ HCl, ☐ $Na_2S_2O_3$, ☐ MeOH, ☐ $NaHSO_4$
☐ Other (Specify):

	Yes	No	N/A	Note or Comment
1. Are the COCs Correct?	✔			
2. Are Sample labels legible & indelible ink?	✔			
3. Do samples match the COC?	✔			
4. Are the required analyses clear?	✔			
5. Is there enough samples for required analysis?	✔			
6. Does cooler or samples have custody seal(s)?			✔	
7. Are sample containers in good condition?	✔			
8. Are samples preserved?	✔			
9. Are samples preserved properly for the intended analysis?	✔			
10. Are the VOAs free of headspace? See footnote.			✔	
11. Are the jars free of headspace?			✔	

* = see note below. N/A = Not Applicable

PLEASE NOTE ALL SAMPLES WILL BE DISPOSED OF 30 DAYS AFTER RECEIVING DATE. IF AETL IS INFORMED OTHERWISE, THERE WILL BE A STORAGE CHARGE PER SAMPLE PER MONTH FOR ANY SAMPLE HELD BEYOND 30 DAYS.

◯ Example maximum headspace bubble size; acceptance criteria not to exceed 5-6 mm in diameter.

For headspace bubbles exceeding 6 mm in diameter, sample receiving will tag the VOA and notify the Project Manager. The Project Manager will contact client for Analyze or Resample instructions.

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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEF0111 [none] Justin King LASUD Canoga	Site: Reported:	Canoga Park High School 6850 CA-27 Canoga Park, CA 91303 07/17/2023 18:30

Case Narrative

The following "Sample Received" Section summarizes the samples received and associated analyses requested as specified on the enclosed chain of custody.

Results as reported by the laboratory apply only to 1) the items tested, 2) as the samples are received, and 3) the accuracy of information provided. Information supplied by the customer that may affect validity of results and may be contained in this report include Project Name/Number, Site Location, Sample Locations, Sampling Dates/Times, Sample ID, Sample Preservation, Sample Matrix, Sample Properties, Field Blanks, Field Duplicates, Field Spikes, and Site Historical Data.

Accreditation applies only to the test methods listed on each scope of accreditation held by the laboratory; certifications held by the laboratory may not apply to results supplied in this report.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

No analytical non-conformances were encountered.

Qualifiers are noted in the report.

The samples were subcontracted to Asset Laboratories for EPA 6020, STLC, and TCLP. Please see attached report for results.

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEF0111 [none] Justin King LASUD Canoga	Site: Reported:	Canoga Park High School 6850 CA-27 Canoga Park, CA 91303 07/17/2023 18:30

Samples Received

AETL received the following samples on 06/13/2023 with the following specifications

Client ID SB-38-S10-D3.0 — **Sample Date** 06/13/2023 8:56

Lab ID BEF0111-22 — **Matrix** Soil — **Quantity of Containers** 2

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Client ID SB-38-N5-D2.0 — **Sample Date** 06/13/2023 9:06

Lab ID BEF0111-24 — **Matrix** Soil — **Quantity of Containers** 3

Method	Analyte	Units	TAT
EPA 6010B-STLC	STLC Arsenic by ICP	mg/L	5

Client ID SB-38-N5-D3.0 — **Sample Date** 06/13/2023 9:09

Lab ID BEF0111-25 — **Matrix** Soil — **Quantity of Containers** 2

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Client ID SB-38-N10-D0.5 — **Sample Date** 06/13/2023 9:16

Lab ID BEF0111-26 — **Matrix** Soil — **Quantity of Containers** 3

Method	Analyte	Units	TAT
EPA 6010B-1311 TCLP	TCLP Arsenic by ICP	mg/L	5
EPA 6010B-STLC	STLC Arsenic by ICP	mg/L	5

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

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Parsons	AETL Job Number:	BEF0111	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LASUD Canoga	Reported:	07/17/2023 18:30	

Samples Received

(Continued)

AETL received the following samples on 06/13/2023 with the following specifications

Client ID	Sample Date
SB-38-N10-D2.0	06/13/2023 9:18

Lab ID	Matrix	Quantity of Containers
BEF0111-27	Soil	2

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Client ID	Sample Date
SB-38-W5-D2.0	06/13/2023 9:31

Lab ID	Matrix	Quantity of Containers
BEF0111-31	Soil	3

Method	Analyte	Units	TAT
EPA 6010B-STLC	STLC Arsenic by ICP	mg/L	5

Client ID	Sample Date
SB-38-W5-D3.0	06/13/2023 9:33

Lab ID	Matrix	Quantity of Containers
BEF0111-32	Soil	2

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Client ID	Sample Date
SB-51-W5-D0.5	06/13/2023 11:14

Lab ID	Matrix	Quantity of Containers
BEF0111-45	Soil	4

Method	Analyte	Units	TAT
EPA 6010B-1311 TCLP	TCLP Arsenic by ICP	mg/L	5

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

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Parsons	AETL Job Number:	BEF0111	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LASUD Canoga	Reported:	07/17/2023 18:30	

Samples Received

(Continued)

AETL received the following samples on 06/13/2023 with the following specifications

Client ID: SB-51-W5-D2.0 **Sample Date:** 06/13/2023 11:16

Lab ID: BEF0111-46 **Matrix:** Soil **Quantity of Containers:** 3

Method	Analyte	Units	TAT
EPA 6010B-1311 TCLP	TCLP Arsenic by ICP	mg/L	5
EPA 6010B-STLC	STLC Arsenic by ICP	mg/L	5

Client ID: SB-51-W5-D3.0 **Sample Date:** 06/13/2023 11:18

Lab ID: BEF0111-47 **Matrix:** Soil **Quantity of Containers:** 2

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Total Number of Samples received: 10

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

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A KYZER LABS COMPANY

Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEF0111 [none] Justin King LASUD Canoga	Site: Reported:	Canoga Park High School 6850 CA-27 Canoga Park, CA 91303 07/17/2023 18:30

Positive Hits Summary

Lab ID	Client ID					Sampled
Method	Analyte	Result	Qualifier	Unit		Analyzed

See Subcontract Report.

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

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Telephone (888) 288-AETL • (818) 845-8200 • www.aetlab.com
A KYZER LABS COMPANY

Parsons	AETL Job Number:	BEF0111	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LASUD Canoga	Reported:	07/17/2023 18:30	

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

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A KYZER LABS COMPANY

Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEF0111 [none] Justin King LASUD Canoga	Site: Reported:	Canoga Park High School 6850 CA-27 Canoga Park, CA 91303 07/17/2023 18:30

Qualifiers and Definitions

Item	Definitions
% wt	Percent Weight
%REC	Percent Recovery
°F	Degrees Fahrenheit
AETL	American Environmental Testing Laboratory, LLC
C	Carbon
CARB	California Air Resources Board
COC	Chain of Custody
Cresols	3-methylphenol/4-methylphenol coelute and cannot be chromatographically separated. Due to this coeluting isomer pair phenomenon, the laboratory uses a single cresol (4-methylphenol) as calibration standard for 3-methylphenol/4-methylphenol.
CRM	Certified Reference Material
DI	Deionized Water
DPD	Department of Planning and Development
DRO	Diesel Range Organics
Dup	Duplicate
ELAP	Environmental Laboratory Accreditation Program
EPA	Environmental Protection Agency
GC/FID	Gas Chromatography Flame Ionization Detection
GRO	Gasoline Range Organics
HC	Hydrocarbon
HEM	Hexane Extractable Material
HMU	Hazardous Material Unit
ICP/MS	Inductively Coupled Plasma Mass Spectrometry
LACSD	Los Angeles County Sanitation Districts
LCS	Laboratory Control Sample - A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes.
LCSD	Laboratory Control Sample Duplicate - A replicate of Laboratory Control Sample.
LOQ	Limit of Quantitation
MDL	Method Detection Limit - The minimum measured concentration of a substance that can be reported with 99% confidence. MDL is statistically derived number which is specific for each instrument, each method and each compound.
mg/kg	Miligrams per Kilogram
mg/L	Miligrams per Liter
ml/L/hr	Milliliter per Liter per Hour
MRO	Motor oil Range Organics
MS	Matrix Spike - A sample prepared, taken through all sample preparation and analytical steps of the procedure and analyzed as an independent test results.
MSD	Matrix Spike Duplicate - A replicate of Matrix Spike Sample.
N	No
ND	Analyte is not detected below Method Detection Limit.

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

Parsons	AETL Job Number:	BEF0111	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LASUD Canoga	Reported:	07/17/2023 18:30	

ng/m3	Nanograms per cubic meter
NIOSH	National Institute for Occupational Safety and Health
nL/L	Nanoliters per Liter
NTU	Nephelometric Turbidity Units
Ohm-cm	Ohms per centimeter
ORO	Oil Range Organics
OSHA	Occupational Safety and Health Administration
PCB	Polychlorinated Biphenyl
ppb v	Parts per billion by volume
ppmC	Parts per million Carbon
PSU	Practical Salinity Unit
RL	Reporting Limit - The lowest concentration at which an analyte can be detected in a sample and its concentration can be reported with a specified degree of confidence, accuracy and precision. For usage at AETL, RL is equivalant to LOQ.
RPD	Relative Percent Difference
SIM	Selective Ion Monitoring
SM	Standard Method
SPLP	Synthetic Precipitation Leaching Procedure
STLC	Soluble Threshold Limit Concentration
TCLP	Toxicity Characteristic Leaching Procedure
TPH	Total Petroleum Hydrocarbons
TTLC	Total Threshold Limit Concentrations
ug/kg	Micrograms per Kilogram
ug/L	Micrograms per Liter
ug/m3	Micrograms per cubic meter
WET	Waste Extraction Test
Y	Yes
ZHE	Zero Headspace Extraction

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

July 17, 2023

Hailley Coleman
American Environmental Testing Laboratory, Inc.
2834 N. Naomi Street
Burbank, CA 91504

TEL: (818) 845-8200
FAX:

Workorder No.: N057611

RE: BEF0111.02

Attention: Hailley Coleman

Enclosed are the results for sample(s) received on July 10, 2023 by ASSET Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562) 219-7435 if I can be of further assistance to your company.

Sincerely,

for

Ferdinand Paul Lugtu
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and ASSET Laboratories - California.

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

All sample containers were received intact with proper chain of custody documentation.

Information on sample receipt conditions including discrepancies can be found in attached Sample Receipt Checklist Form.

Cooler temperature and sample preservation were verified upon receipt of samples if applicable.

Samples were analyzed within method holding time.

CLIENT: American Environmental Testing Laborator
Project: BEF0111.02
Lab Order: N057611
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N057611-001A	BEF0111-22	Soil	6/13/2023 8:56:00 AM	7/10/2023	7/17/2023
N057611-002A	BEF0111-24	Soil	6/13/2023 9:06:00 AM	7/10/2023	7/17/2023
N057611-003A	BEF0111-25	Soil	6/13/2023 9:09:00 AM	7/10/2023	7/17/2023
N057611-004A	BEF0111-26	Soil	6/13/2023 9:16:00 AM	7/10/2023	7/17/2023
N057611-005A	BEF0111-27	Soil	6/13/2023 9:18:00 AM	7/10/2023	7/17/2023
N057611-006A	BEF0111-31	Soil	6/13/2023 9:31:00 AM	7/10/2023	7/17/2023
N057611-007A	BEF0111-32	Soil	6/13/2023 9:33:00 AM	7/10/2023	7/17/2023
N057611-008A	BEF0111-45	Soil	6/13/2023 11:14:00 AM	7/10/2023	7/17/2023
N057611-009A	BEF0111-46	Soil	6/13/2023 11:16:00 AM	7/10/2023	7/17/2023
N057611-010A	BEF0111-47	Soil	6/13/2023 11:18:00 AM	7/10/2023	7/17/2023

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0111-22
Lab Order:	N057611		
Project:	BEF0111.02	**Collection Date:**	6/13/2023 8:56:00 AM
Lab ID:	N057611-001	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP7_230711B	QC Batch: 100702			PrepDate:	7/11/2023	Analyst: **DJ**
Arsenic	6.1	0.50		mg/Kg	1	7/11/2023 04:56 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0111-24
Lab Order:	N057611		
Project:	BEF0111.02	**Collection Date:**	6/13/2023 9:06:00 AM
Lab ID:	N057611-002	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS BY STLC						
EPA 3010A				**WET/ EPA 6010B**		
RunID: CA01638-ICP01_230713A	QC Batch: 100771			PrepDate:	7/13/2023	Analyst: **PL**
Arsenic	4.3	0.25		mg/L	5	7/13/2023 05:25 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0111-25
Lab Order:	N057611		
Project:	BEF0111.02	**Collection Date:**	6/13/2023 9:09:00 AM
Lab ID:	N057611-003	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP7_230711B	QC Batch: 100702			PrepDate:	7/11/2023	Analyst: **DJ**
Arsenic	9.0	0.50		mg/Kg	1	7/11/2023 05:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0111-26
Lab Order:	N057611		
Project:	BEF0111.02	**Collection Date:**	6/13/2023 9:16:00 AM
Lab ID:	N057611-004	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS BY STLC						
EPA 3010A				**WET/ EPA 6010B**		
RunID: CA01638-ICP01_230713A QC Batch: 100771				PrepDate: 7/13/2023		Analyst: **PL**
Arsenic	20	0.25		mg/L	5	7/13/2023 05:28 PM
ICP METALS BY TCLP EXTRACTION						
EPA 3010A				**EPA 1311/ 6010B**		
RunID: CA01638-ICP01_230713B QC Batch: 100772				PrepDate: 7/13/2023		Analyst: **PL**
Arsenic	4.9	0.050		mg/L	1	7/13/2023 04:04 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0111-27
Lab Order:	N057611		
Project:	BEF0111.02	**Collection Date:**	6/13/2023 9:18:00 AM
Lab ID:	N057611-005	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP7_230711B	QC Batch: 100702			PrepDate:	7/11/2023	Analyst: **DJ**
Arsenic	22	0.50		mg/Kg	1	7/11/2023 05:05 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0111-31
Lab Order:	N057611		
Project:	BEF0111.02	**Collection Date:**	6/13/2023 9:31:00 AM
Lab ID:	N057611-006	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS BY STLC						
	EPA 3010A			**WET/ EPA 6010B**		
RunID: CA01638-ICP01_230713A	QC Batch: 100771			PrepDate: 7/13/2023		Analyst: **PL**
Arsenic	4.0	0.25		mg/L	5	7/13/2023 05:31 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0111-32
Lab Order:	N057611		
Project:	BEF0111.02	**Collection Date:**	6/13/2023 9:33:00 AM
Lab ID:	N057611-007	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP7_230711B	QC Batch: 100702			PrepDate:	7/11/2023	Analyst: **DJ**
Arsenic	6.3	0.50		mg/Kg	1	7/11/2023 05:10 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0111-45
Lab Order:	N057611		
Project:	BEF0111.02	**Collection Date:**	6/13/2023 11:14:00 AM
Lab ID:	N057611-008	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS BY TCLP EXTRACTION						
	EPA 3010A			**EPA 1311/ 6010B**		
RunID: CA01638-ICP01_230713B	QC Batch: 100772			PrepDate:	7/13/2023	Analyst: **PL**
Arsenic	1.0	0.050		mg/L	1	7/13/2023 04:19 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0111-46
Lab Order:	N057611		
Project:	BEF0111.02	**Collection Date:**	6/13/2023 11:16:00 AM
Lab ID:	N057611-009	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS BY STLC						
EPA 3010A				**WET/ EPA 6010B**		
RunID: CA01638-ICP01_230713A QC Batch: 100771				PrepDate: 7/13/2023		Analyst: **PL**
Arsenic	7.0	0.25		mg/L	5	7/13/2023 05:34 PM
ICP METALS BY TCLP EXTRACTION						
EPA 3010A				**EPA 1311/ 6010B**		
RunID: CA01638-ICP01_230713B QC Batch: 100772				PrepDate: 7/13/2023		Analyst: **PL**
Arsenic	1.5	0.050		mg/L	1	7/13/2023 04:22 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0111-47
Lab Order:	N057611		
Project:	BEF0111.02	**Collection Date:**	6/13/2023 11:18:00 AM
Lab ID:	N057611-010	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP7_230711B	QC Batch: 100702			PrepDate:	7/11/2023	Analyst: **DJ**
Arsenic	11	0.50		mg/Kg	1	7/11/2023 05:15 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: American Environmental Testing Laboratory, Inc.
Work Order: N057611
Project: BEF0111.02

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_S_PPM

Sample ID: **MB-100702**	SampType: **MBLK**	TestCode: **6020_S_PPM**	Units: **mg/Kg**	Prep Date: **7/11/2023**	RunNo: **173781**
Client ID: **PBS**	Batch ID: **100702**	TestNo: **EPA 6020**	**EPA 3050B**	Analysis Date: **7/11/2023**	SeqNo: **5276472**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.50									

Sample ID: **LCS-100702**	SampType: **LCS**	TestCode: **6020_S_PPM**	Units: **mg/Kg**	Prep Date: **7/11/2023**	RunNo: **173781**
Client ID: **LCSS**	Batch ID: **100702**	TestNo: **EPA 6020**	**EPA 3050B**	Analysis Date: **7/11/2023**	SeqNo: **5276473**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	4.909	0.50	5.000	0	98.2	85	115				

Sample ID: **N057610-001A-MS**	SampType: **MS**	TestCode: **6020_S_PPM**	Units: **mg/Kg**	Prep Date: **7/11/2023**	RunNo: **173781**
Client ID: **ZZZZZZ**	Batch ID: **100702**	TestNo: **EPA 6020**	**EPA 3050B**	Analysis Date: **7/11/2023**	SeqNo: **5276477**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	11.233	0.50	4.998	6.443	95.9	75	125				

Sample ID: **N057610-001A-MSD**	SampType: **MSD**	TestCode: **6020_S_PPM**	Units: **mg/Kg**	Prep Date: **7/11/2023**	RunNo: **173781**
Client ID: **ZZZZZZ**	Batch ID: **100702**	TestNo: **EPA 6020**	**EPA 3050B**	Analysis Date: **7/11/2023**	SeqNo: **5276478**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	11.648	0.50	4.993	6.443	104	75	125	11.23	3.63	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits

Calculations are based on raw values

- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

ANALYTICAL QC SUMMARY REPORT

TestCode: CA_6010_ST

Sample ID: **LCS-100771**	SampType: **LCS**	TestCode: **CA_6010_ST**	Units: **mg/L**	Prep Date: **7/13/2023**	RunNo: **173847**
Client ID: **LCSS**	Batch ID: **100771**	TestNo: **WET/ EPA 60**	**EPA 3010A**	Analysis Date: **7/13/2023**	SeqNo: **5278387**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.502	0.050	0.5000	0	100	85	115				

Sample ID: **MB-100771**	SampType: **MBLK**	TestCode: **CA_6010_ST**	Units: **mg/L**	Prep Date: **7/13/2023**	RunNo: **173847**
Client ID: **PBS**	Batch ID: **100771**	TestNo: **WET/ EPA 60**	**EPA 3010A**	Analysis Date: **7/13/2023**	SeqNo: **5278388**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.050									

Sample ID: **MB-100688 STLC**	SampType: **MBLK**	TestCode: **CA_6010_ST**	Units: **mg/L**	Prep Date: **7/13/2023**	RunNo: **173847**
Client ID: **PBS**	Batch ID: **100771**	TestNo: **WET/ EPA 60**	**EPA 3010A**	Analysis Date: **7/13/2023**	SeqNo: **5278389**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.032	0.25									

Sample ID: **N057603-001B-MS**	SampType: **MS**	TestCode: **CA_6010_ST**	Units: **mg/L**	Prep Date: **7/13/2023**	RunNo: **173847**
Client ID: **ZZZZZZ**	Batch ID: **100771**	TestNo: **WET/ EPA 60**	**EPA 3010A**	Analysis Date: **7/13/2023**	SeqNo: **5278393**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.637	0.25	0.5000	0.09010	109	75	125				

Sample ID: **N057603-001B-MSD**	SampType: **MSD**	TestCode: **CA_6010_ST**	Units: **mg/L**	Prep Date: **7/13/2023**	RunNo: **173847**
Client ID: **ZZZZZZ**	Batch ID: **100771**	TestNo: **WET/ EPA 60**	**EPA 3010A**	Analysis Date: **7/13/2023**	SeqNo: **5278394**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.627	0.25	0.5000	0.09010	107	75	125	0.6368	1.50	20	

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

ANALYTICAL QC SUMMARY REPORT

TestCode: CA_6010_TC

Sample ID: **LCS-100772**	SampType: **LCS**	TestCode: **CA_6010_TC**	Units: **mg/L**	Prep Date: **7/13/2023**	RunNo: **173848**
Client ID: **LCSS**	Batch ID: **100772**	TestNo: **EPA 1311/ 60 EPA 3010A**		Analysis Date: **7/13/2023**	SeqNo: **5278449**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.511	0.050	0.5000	0	102	85	115				

Sample ID: **MB-100772**	SampType: **MBLK**	TestCode: **CA_6010_TC**	Units: **mg/L**	Prep Date: **7/13/2023**	RunNo: **173848**
Client ID: **PBS**	Batch ID: **100772**	TestNo: **EPA 1311/ 60 EPA 3010A**		Analysis Date: **7/13/2023**	SeqNo: **5278450**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.050									

Sample ID: **MB-100696 TCLP**	SampType: **MBLK**	TestCode: **CA_6010_TC**	Units: **mg/L**	Prep Date: **7/13/2023**	RunNo: **173848**
Client ID: **PBS**	Batch ID: **100772**	TestNo: **EPA 1311/ 60 EPA 3010A**		Analysis Date: **7/13/2023**	SeqNo: **5278451**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.006	0.050									

Sample ID: **N057611-004A-MS**	SampType: **MS**	TestCode: **CA_6010_TC**	Units: **mg/L**	Prep Date: **7/13/2023**	RunNo: **173848**
Client ID: **ZZZZZZ**	Batch ID: **100772**	TestNo: **EPA 1311/ 60 EPA 3010A**		Analysis Date: **7/13/2023**	SeqNo: **5278455**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	5.437	0.050	0.5000	4.874	112	75	125				

Sample ID: **N057611-004A-MSD**	SampType: **MSD**	TestCode: **CA_6010_TC**	Units: **mg/L**	Prep Date: **7/13/2023**	RunNo: **173848**
Client ID: **ZZZZZZ**	Batch ID: **100772**	TestNo: **EPA 1311/ 60 EPA 3010A**		Analysis Date: **7/13/2023**	SeqNo: **5278456**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	5.476	0.050	0.5000	4.874	120	75	125	5.437	0.714	20	

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

57611k

AMERICAN ENVIRONMENTAL TESTING LABORATORY, LLC
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Telephone (888) 288-AETL • (818) 845-8200 • www.aetlab.com
A KYZER LABS COMPANY

SUBCONTRACT CHAIN of CUSTODY

Sending Laboratory:

AETL
AETL, LLC. 2840 N. Naomi Street
Burbank, CA 91504
Phone: 818-845-8200

Project Manager: Hailley Coleman
Email: hcoleman@aetlab.com

Subcontracted Laboratory:

ASSET Laboratories
11110 Artesia Blvd.
Cerritos, CA 90703
Phone: (702)307-2659
Fax: (562)219-7435

Work Order: BEF0111.02 PO # SUB-35591

Analysis	Due	Expires	Comments
~~Sample ID: BEF0111-01~~ *Soil* *Sampled: 06/13/2023 07:22*			5-DAY TAT
STLC-Extraction (STLC-Extraction)	06/20/2023	06/27/2023 07:22	
TCLP-Extraction (TCLP Extraction)	06/20/2023	09/21/2023 07:22	
STLC-6010B-Pb (STLC Lead by ICP)	06/20/2023	09/21/2023 07:22	
TCLP-6010B-Pb (TCLP Lead by ICP)	06/20/2023	12/10/2023 07:22	
Containers Supplied:			
~~Sample ID: BEF0111-20~~ *Soil* *Sampled: 06/13/2023 08:51*			
TCLP-6010B-As (TCLP Arsenic by ICP)	06/20/2023	06/23/2023 08:51	
STLC-Extraction (STLC-Extraction)	06/20/2023	06/27/2023 08:51	
TCLP-Extraction (TCLP Extraction)	06/20/2023	09/21/2023 08:51	
6020-As (Arsenic, total by ICP/MS)	06/20/2023	12/10/2023 08:51	
STLC-6010B-As (STLC Arsenic by ICP)	06/20/2023	12/10/2023 08:51	
Containers Supplied:			
~~Sample ID: BEF0111-21~~ *Soil* *Sampled: 06/13/2023 08:54*			
6020-As (Arsenic, total by ICP/MS)	06/20/2023	12/10/2023 08:54	
Containers Supplied:			
Sample ID: BEF0111-22 *Soil* *Sampled: 06/13/2023 08:56*			N057611-001
6020-As (Arsenic, total by ICP/MS)	06/20/2023	12/10/2023 08:56	

CA: 3.2°C IR#1

Approved by: HAILLEY COLEMAN 7/10/23
AETL Project Manager Date

Released By AETL Sample Control Date

Received By Courier Date

Hrag B. 7/10/23 1:10pm
Released By Courier Date

Mabel Manuel Ramos 7/10/23 1310
Received By Subcontract Laboratory Date

KIM SAN ANTONIO 7/10/23 1630

Maria de G Campos 7/11/23 8:20 am
LV 4.7°C IR#3 SW0072

AMERICAN ENVIRONMENTAL TESTING LABORATORY, LLC
2840 North Naomi Street, Burbank, CA 91504 • ELAP# 1541 • LACSD# 10181
Telephone (888) 288-AETL • (818) 845-8200 • www.aetlab.com
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SUBCONTRACT CHAIN of CUSTODY
(Continued)

Work Order: BEF0111 (Continued)

Analysis	Due	Expires	Comments
Containers Supplied:			
~~**Sample ID: BEF0111-23**~~ ***Soil*** ***Sampled: 06/13/2023 09:04***			
STLC-Extraction (STLC-Extraction)	06/20/2023	06/27/2023 09:04	
6020-As (Arsenic, total by ICP/MS)	06/20/2023	12/10/2023 09:04	
STLC-6010B-As (STLC Arsenic by ICP)	06/20/2023	12/10/2023 09:04	
Containers Supplied:			
Sample ID: BEF0111-24 ***Soil*** ***Sampled: 06/13/2023 09:06***			N057611-002
STLC-Extraction (STLC-Extraction)	06/20/2023	06/27/2023 09:06	CAN ALSO USE JAR PREVIOUSLY
~~6020-As (Arsenic, total by ICP/MS)~~	06/20/2023	12/10/2023 09:06	
STLC-6010B-As (STLC Arsenic by ICP)	06/20/2023	12/10/2023 09:06	SENT W/BEF0111.01
Containers Supplied:			
Sample ID: BEF0111-25 ***Soil*** ***Sampled: 06/13/2023 09:09***			N057611-003
6020-As (Arsenic, total by ICP/MS)	06/20/2023	12/10/2023 09:09	
Containers Supplied:			
Sample ID: BEF0111-26 ***Soil*** ***Sampled: 06/13/2023 09:16***			N057611-004
TCLP-6010B-As (TCLP Arsenic by ICP)	06/20/2023	06/23/2023 09:16	
STLC-Extraction (STLC-Extraction)	06/20/2023	06/27/2023 09:16	JAR ALSO PREVIOUSLY SENT
TCLP-Extraction (TCLP Extraction)	06/20/2023	09/21/2023 09:16	
~~6020-As (Arsenic, total by ICP/MS)~~	06/20/2023	12/10/2023 09:16	
STLC-6010B-As (STLC Arsenic by ICP)	06/20/2023	12/10/2023 09:16	
Containers Supplied:			
Sample ID: BEF0111-27 ***Soil*** ***Sampled: 06/13/2023 09:18***			N057611-005
6020-As (Arsenic, total by ICP/MS)	06/20/2023	12/10/2023 09:18	

Approved by:
AETL Project Manager _____ Date _____

CA: 3.2.C IR#1

Released By AETL Sample Control _____ Date _____ Received By Courier _____ Date _____

Hrug B. 7/10/23 1:10pm
Released By Courier Date

Received By Subcontract Laboratory 7/10/23 1310 Date

KIM VANANTONIO 7/10/23 1636

Manuel G. Campos 7/11/23 8:20 am
FV 4-70C, IR#3 SW 0072

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SUBCONTRACT CHAIN of CUSTODY
(Continued)

Work Order: BEF0111 (Continued)

Analysis	Due	Expires	Comments
Containers Supplied:			
~~**Sample ID: BEF0111-29**~~ ***Soil*** ***Sampled: 06/13/2023 09:27***			
TCLP-6010B-As (TCLP Arsenic by ICP)	06/20/2023	06/23/2023 09:27	
STLC-Extraction (STLC-Extraction)	06/20/2023	06/27/2023 09:27	
TCLP-Extraction (TCLP Extraction)	06/20/2023	09/21/2023 09:27	
6020-As (Arsenic, total by ICP/MS)	06/20/2023	12/10/2023 09:27	
STLC-6010B-As (STLC Arsenic by ICP)	06/20/2023	12/10/2023 09:27	
Containers Supplied:			
~~**Sample ID: BEF0111-30**~~ ***Soil*** ***Sampled: 06/13/2023 09:29***			
TCLP-6010B-As (TCLP Arsenic by ICP)	06/20/2023	06/23/2023 09:29	
STLC-Extraction (STLC-Extraction)	06/20/2023	06/27/2023 09:29	
TCLP-Extraction (TCLP Extraction)	06/20/2023	09/21/2023 09:29	
6020-As (Arsenic, total by ICP/MS)	06/20/2023	12/10/2023 09:29	
STLC-6010B-As (STLC Arsenic by ICP)	06/20/2023	12/10/2023 09:29	
Containers Supplied:			
Sample ID: BEF0111-31 ***Soil*** ***Sampled: 06/13/2023 09:31***			N057611-006
STLC-Extraction (STLC-Extraction)	06/20/2023	06/27/2023 09:31	
~~6020-As (Arsenic, total by ICP/MS)~~	06/20/2023	12/10/2023 09:31	JAR ALSO PREVIOUSLY SENT
STLC-6010B-As (STLC Arsenic by ICP)	06/20/2023	12/10/2023 09:31	
Containers Supplied:			
Sample ID: BEF0111-32 ***Soil*** ***Sampled: 06/13/2023 09:33***			N057611-007
6020-As (Arsenic, total by ICP/MS)	06/20/2023	12/10/2023 09:33	
Containers Supplied:			

Approved by: _____ _____ CA: 3.2°C IR#1
AETL Project Manager Date

Released By AETL Sample Control	Date	Received By Courier	Date
Released By Courier	Date	Received By Subcontract Laboratory	Date
Hrag B.	7/10/23 1:10pm	Maribel P.	7/10/23 1310

KIM VAN ANTONIO 7/10/23 1630

Maribel Campos 7/11/23 8:20 am
LV 4.7°C IR#3 SW20.72

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Telephone (888) 288-AETL • (818) 845-8200 • www.aetlab.com

SUBCONTRACT CHAIN of CUSTODY
(Continued)

Work Order: BEF0111 (Continued)

Analysis	Due	Expires	Comments
~~**Sample ID: BEF0111-43**~~ ***Soil*** ***Sampled: 06/13/2023 11:04***			
6020-As (Arsenic, total by ICP/MS)	06/20/2023	12/10/2023 11:04	
Containers Supplied:			
Sample ID: BEF0111-45 ***Soil*** ***Sampled: 06/13/2023 11:14***			N057611-008
TCLP-6010B-As (TCLP Arsenic by ICP)	06/20/2023	06/23/2023 11:14	
~~STLC-Extraction (STLC-Extraction)~~	06/20/2023	06/27/2023 11:14	JAR ALSO PREVIOUSLY SENT
TCLP-Extraction (TCLP Extraction)	06/20/2023	09/21/2023 11:14	
~~STLC-6010B-As (STLC Arsenic by ICP)~~	06/20/2023	12/10/2023 11:14	
~~6020-As (Arsenic, total by ICP/MS)~~	06/20/2023	12/10/2023 11:14	
Containers Supplied:			
Sample ID: BEF0111-46 ***Soil*** ***Sampled: 06/13/2023 11:16***			N057611-009
TCLP-6010B-As (TCLP Arsenic by ICP)	06/20/2023	06/23/2023 11:16	
STLC-Extraction (STLC-Extraction)	06/20/2023	06/27/2023 11:16	
TCLP-Extraction (TCLP Extraction)	06/20/2023	09/21/2023 11:16	
~~6020-As (Arsenic, total by ICP/MS)~~	06/20/2023	12/10/2023 11:16	
STLC-6010B-As (STLC Arsenic by ICP)	06/20/2023	12/10/2023 11:16	
Containers Supplied:			
Sample ID: BEF0111-47 ***Soil*** ***Sampled: 06/13/2023 11:18***			N057611-010
6020-As (Arsenic, total by ICP/MS)	06/20/2023	12/10/2023 11:18	
Containers Supplied:			
~~**Sample ID: BEF0111-48**~~ ***Soil*** ***Sampled: 06/13/2023 12:16***			
STLC-Extraction (STLC-Extraction)	06/20/2023	06/27/2023 12:16	
STLC-6010B-Pb (STLC Lead by ICP)	06/20/2023	09/21/2023 12:16	

Approved by: _____ _____ 0A: 3.2°C IP#1
AETL Project Manager Date

Released By AETL Sample Control	Date	Received By Courier	Date
Hrag B.	7/10/23 1:10pm	Mahad Wahjeldin	7/10/23 1310
Released By Courier	Date	Received By Subcontract Laboratory	Date
KIM VAN ANTONIO	7/10/23 1630	Nancy Del Carp. Ops	7/11/23 8:20 am

4 OF 4
+V4.7°C IR#3 SW0092

ASSET Laboratories

Please review the checklist below. Any NO signifies non-compliance. Any non-compliance will be noted and must be understood as having an impact on the quality of the data. All tests will be performed as requested regardless of any compliance issues.

If you have any questions or further instruction, please contact our Project Coordinator at (702) 307-2659.

Cooler Received/Opened On:	7/10/2023	Workorder:	N057611
Rep sample Temp (Deg C):	3.2	IR Gun ID:	1
Temp Blank:	☐ Yes ☑ No		
Carrier name:	Walk-In		
Last 4 digits of Tracking No.:	NA	Packing Material Used:	None
Cooling process:	☑ Ice ☐ Ice Pack ☐ Dry Ice ☐ Other ☐ None		

Sample Receipt Checklist

1. Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
2. Custody seals intact, signed, dated on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
3. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
4. Chain of custody present?	Yes ☑	No ☐	
5. Sampler's name present in COC?	Yes ☐	No ☑	
6. Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
7. Chain of custody agrees with sample labels?	Yes ☑	No ☐	
8. Samples in proper container/bottle?	Yes ☑	No ☐	
9. Sample containers intact?	Yes ☑	No ☐	
10. Sufficient sample volume for indicated test?	Yes ☑	No ☐	
11. All samples received within holding time?	Yes ☑	No ☐	
12. Temperature of rep sample or Temp Blank within acceptable limit?	Yes ☑	No ☐	NA ☐
13. Water - VOA vials have zero headspace?	Yes ☐	No ☐	NA ☑
14. Water - pH acceptable upon receipt? Example: pH > 12 for (CN,S); pH<2 for Metals	Yes ☐	No ☐	NA ☑
15. Did the bottle labels indicate correct preservatives used?	Yes ☐	No ☐	NA ☑
16. Were there Non-Conformance issues at login?	Yes ☑	No ☐	NA ☐
Was Client notified?	Yes ☐	No ☐	NA ☑

Comments: Received at Las Vegas Lab on 7/11/2023 at 4.7°C IR#3, via SW#0072

Checklist Completed By: FOR MR 7/11/2023

Reviewed By: for: MBC

ASSET Laboratories

WORK ORDER Summary

12-Jul-23

WorkOrder: N057611

Client ID: AETL01

Project: BEF0111.02 **QC Level:** RTNE **Date Received:** 7/10/2023 1:10 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N057611-001A	BEF0111-22	6/13/2023 8:56:00 AM	7/17/2023	Soil	EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			7/17/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057611-002A	BEF0111-24	6/13/2023 9:06:00 AM	7/17/2023		EPA 3010A	AQPrep for Total Metals: ICP for STLC Extracts	☐	☐	☐	WS-CA
			7/17/2023		WET/ EPA 6010B	ICP METALS by STLC	☐	☐	☐	WS-CA
			7/17/2023		WET	STLC Sample Prep Metals	☐	☐	☐	WS-CA
N057611-003A	BEF0111-25	6/13/2023 9:09:00 AM	7/17/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			7/17/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057611-004A	BEF0111-26	6/13/2023 9:16:00 AM	7/17/2023		EPA 1311	TCLP Sample Prep Metals	☐	☐	☐	WS-CA
			7/17/2023		EPA 3010A	AQPrep for Total Metals: ICP for STLC Extracts	☐	☐	☐	WS-CA
			7/17/2023		EPA 3010A	AQPrep for Total Metals	☐	☐	☐	WS-CA
			7/17/2023		WET/ EPA 6010B	ICP METALS by STLC	☐	☐	☐	WS-CA
			7/17/2023		EPA 1311/ 6010B	ICP METALS by TCLP Extraction	☐	☐	☐	WS-CA
			7/17/2023		WET	STLC Sample Prep Metals	☐	☐	☐	WS-CA
N057611-005A	BEF0111-27	6/13/2023 9:18:00 AM	7/17/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			7/17/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057611-006A	BEF0111-31	6/13/2023 9:31:00 AM	7/17/2023		EPA 3010A	AQPrep for Total Metals: ICP for STLC Extracts	☐	☐	☐	WS-CA
			7/17/2023		WET/ EPA 6010B	ICP METALS by STLC	☐	☐	☐	WS-CA
			7/17/2023		WET	STLC Sample Prep Metals	☐	☐	☐	WS-CA
N057611-007A	BEF0111-32	6/13/2023 9:33:00 AM	7/17/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			7/17/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057611-008A	BEF0111-45	6/13/2023 11:14:00 AM	7/17/2023		EPA 1311	TCLP Sample Prep Metals	☐	☐	☐	WS-CA

WORK ORDER Summary

12-Jul-23

WorkOrder: N057611

Client ID: AETL01

Project: BEF0111.02 **QC Level:** RTNE **Date Received:** 7/10/2023 1:10 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N057611-008A	BEF0111-45	6/13/2023 11:14:00 AM	7/17/2023	Soil	EPA 3010A	AQPrep for Total Metals	☐	☐	☐	WS-CA
			7/17/2023		EPA 1311/ 6010B	ICP METALS by TCLP Extraction	☐	☐	☐	WS-CA
N057611-009A	BEF0111-46	6/13/2023 11:16:00 AM	7/17/2023		EPA 1311	TCLP Sample Prep Metals	☐	☐	☐	WS-CA
			7/17/2023		EPA 3010A	AQPrep for Total Metals: ICP for STLC Extracts	☐	☐	☐	WS-CA
			7/17/2023		EPA 3010A	AQPrep for Total Metals	☐	☐	☐	WS-CA
			7/17/2023		WET/ EPA 6010B	ICP METALS by STLC	☐	☐	☐	WS-CA
			7/17/2023		EPA 1311/ 6010B	ICP METALS by TCLP Extraction	☐	☐	☐	WS-CA
			7/17/2023		WET	STLC Sample Prep Metals	☐	☐	☐	WS-CA
N057611-010A	BEF0111-47	6/13/2023 11:18:00 AM	7/17/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			7/17/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057611-011A	FOLDER	7/17/2023	7/17/2023		Folder	Folder	☐	☐	☐	LAB
			7/17/2023		Folder	Folder	☐	☐	☐	LAB

526 | LAX | 90560072

526 - 90560072

Shipper's Name and Address	Shipper's Account Number
ADVANCED TECHNOLOGY LABORATORIES 3151 W POST RD LAS VEGAS, NV 89118 US +1 (702) 307-2659	74299 - 1

Not Negotiable / Issued by

526 90560072

Southwest Cargo

swacargo.com (800) 533-1222

Copies 1, 2 and 3 of this Air Waybill are originals and have the same validity.

Consignee's Name and Address	Consignee's Account Number
ADVANCED TECHNOLOGY LABORATORIES 3151 W POST RD LAS VEGAS, NV 89118 US +1 (702) 307-2659	74299 - 1

It is agreed that the goods described herein are accepted in apparent good order and condition (except as noted) for carriage **subject to Southwest Airlines' Contract of Carriage which is www.swacargo.com and any location where air waybills are available. Shipper's attention is drawn to the terms of the contract which includes, among other things; (1) Limits on Carriers' liability for loss, damage, or delay of goods, including fragile or perishable goods; (2) Claim restrictions, including time within which shippers or consignees must file a claim or bring an action against the carrier for its acts or omissions or those of its agents; (3) Right of the carrier to change the terms of the contract; (4) Rules about refusal to carry; and (5) Rights of the carrier and limitations, concerning delay or failure to perform service, including schedule changes, rerouting, substitution of an alternate carrier or aircraft, or means of carriage including road unless specific contrary instructions are given hereon by shipper, and shipper agrees the shipment may be carried via intermediate stopping places the carrier deems appropriate.** Shipper may increase liability limits by declaring a higher value for carriage and paying a supplemental charge if required.

Issuing Carrier's Agent Name and City

Accounting Information

Billed on 07/10/2023 19:10 PDT SWA ACCOUNT 74299

Agent's IATA Code	Account No.

Airport of Departure (Addr. of First Carrier) and Requested Routing

LOS ANGELES

Service Level - N

To	By First Carrier	To	By	To	By	Currency	CHGS Code	WT.VAL PPD	WT.VAL COLL	Other PPD	Other COLL	Declared Value for Carriage	Declared Value for Customs
LAS	SOUTHWEST AIRLINES					USD	PP	X		X		100.00	

Airport of Destination	For Carrier Use Only: Flight Date	Flight Date	Amount of Insurance	INSURANCE - If carrier offers insurance, and such insurance is requested in accordance with the conditions thereof, indicate amount to be insured in figures in box marked "Amount of Insurance".
LAS	WN3261 / 10JUL			

HANDLING INFORMATION -

SCI

No. of Pieces RCP	Gross Weight	kg/lb	Rate Class	Commodity Item No.	Chargeable Weight	Rate / Charge	Total	Nature and Quantity of Goods (Inc. Dimensions or Volume)
1	48	L	B	0000	48	As Agreed	*.*****	LAB EQUIPMENT, ENVIORNMENTAL TESTING DIMS IN INCHES: 1 = 24 X 13 X 12
1	48						*******	

Prepaid	Weight Charge	Collect	Other Charges and Description
			MYC 0.00 SCC 0.00
	Valuation Charge		
	Tax		
	Total Other Charges Due Agent		Shipper certifies that the particulars on the face hereof are correct and that **insofar as any part of the consignment contains dangerous goods, such part is properly described by name and is in proper condition for carriage by air according to the applicable Dangerous Goods Regulations.** I consent that this shipment shall be subject to search by the Carrier.
	Total Other Charges Due Carrier		CHARLTON PAGDILAO
			Signature of Shipper or his Agent
Total Prepaid		Total Collect	
Currency Conversion Rates	CC Charges in Dest.Currency		07/10/2023 19:10 PDT LAX E164073
			Executed on (date and time) At (place) Signature of Issuing Carrier or its Agent
For Carriers Use only at Destination	Charges at Destination	Total Collect Charges	

526 - 90560072

ORIGINAL 2 (FOR CONSIGNEE)

AMERICAN ENVIRONMENTAL TESTING LABORATORY, LLC
2840 North Naomi Street, Burbank, CA 91504 • ELAP# 1541 • LACSD# 10181
Telephone (888) 288-AETL • (818) 845-8200 • www.aetlab.com
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July 25, 2023

AETL Job No: BEF0111.03
Received Date: 06/13/2023
Project Number: [none]

Parsons
100 West Walnut Street
Pasadena, CA 91124
Telephone: (626) 440-6200

Attention: Justin King

Project Name: LASUD Canoga

Site: Canoga Park High School
6850 CA-27
Canoga Park, CA 91303

Enclosed please find the results of analyses for samples which were analyzed as specified on the attached chain of custody. If you have any questions concerning this report, please do not hesitate to call.

Checked By: Hailley Coleman
Hailley Coleman
Project Manager

Approved By: Joe Sevrean
Joe Sevrean
Laboratory Director

Table of Contents

Client Project Name: Canoga Park High School Project Number: [none]
Work Order Number: BEF0111

1 Cover Letter 1
2 Sample Condition on Receipt 3
3 Chain of Custody 4
4 Cooler Receipt Forms 9
5 Case Narrative 10
6 Samples Received 11
7 Positive Hits Summary 12
8 Analytical Results 13
9 Qualifiers and Definitions 14
10 Sub Contracted Analysis 16

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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEF0111 [none] Justin King LASUD Canoga	Site: Reported:	Canoga Park High School 6850 CA-27 Canoga Park, CA 91303 07/25/2023 17:05

Sample Condition on Receipt

Cooler ID: Default Cooler **Temperature: 5.8 °C**

Are the COCs Correct	Y		
Labels Legible	Y	Containers In Good Condition	Y
COC/Labels Agree	Y	Samples Preserved Properly	Y
Sufficient Sample Volume	Y	Sufficient Holding Time for all Tests	Y
Sample Labels intact	Y	Received on Ice	Y

Cooler ID: New Cooler **Temperature: 5.7 °C**

Are the COCs Correct	Y		
Labels Legible	Y	Containers In Good Condition	Y
COC/Labels Agree	Y	Samples Preserved Properly	Y
Sufficient Sample Volume	Y	Sufficient Holding Time for all Tests	Y
Sample Labels intact	Y	Received on Ice	Y

Cooler ID: New Cooler [1] **Temperature: 5.8 °C**

Are the COCs Correct	Y		
Labels Legible	Y	Containers In Good Condition	Y
COC/Labels Agree	Y	Samples Preserved Properly	Y
Sufficient Sample Volume	Y	Sufficient Holding Time for all Tests	Y
Sample Labels intact	Y	Received on Ice	Y

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

AMERICAN ENVIRONMENTAL TESTING LABORATORY
2834 NORTH NAOMI ST. BURBANK, CALIFORNIA 91504 DHS # 1541 LACSD# 10181
TEL (888) 288-AETL (818) 845-8200 FAX (818) 845-8840 www.aetlab.com

CHAIN OF CUSTODY RECORD

111395

AETL JOB No. BEF0111

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut St. Pasadena, CA 91124
PHONE FAX: (310) 809-5793
PROJECT NAME: LAUSD Canoga
PROJECT #:
SITE NAME AND ADDRESS: Canoga Park Highschool 6850 CA-27 Canoga Park, CA 91303
PO #:

ANALYSIS REQUESTED

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	STLC-Pb	TCLP-Pb							TEST INSTRUCTIONS & COMMENTS
1	SB-39-N5-D0.5	BEF0111-01	6/13/2023	0722	Soil	1 x 9oz	NONE	X		X	X							
2	SB-39-N5-D2.0	-02		0724				X										Hold
3	SB-39-N5-D3.0	-03		0727														Hold
4	SB-39-N10-D0.5	-04		0737				X										Hold
5	SB-39-N10-D2.0	-05		0739														Hold
6	SB-39-N10-D3.0	-06		0741														Hold
7	SB-39-S5-D0.5	-07		0747				X										
8	SB-39-S5-D0.5-DUP	-08		0749				X										
9	SB-39-S5-D2.0	-09		0751														Hold
10	SB-39-S5-D3.0	-10		0753														Hold
11	SB-39-S10-D0.5	-11		0804														Hold
12	SB-39-S10-D2.0	-12		0806														Hold
13	SB-39-S10-D3.0	-13		0808														Hold
14	~~SB-39-E10-D~~																	
15	SB-39-E5-D0.5	-14		0819				X										

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y/ N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: E. Salmon	Signature:	Signature:
Printed Name: Edward Debrys	Printed Name:	Printed Name:
Date: 6/13/23 Time: 1500	Date: Time:	Date: Time:

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: 3.
Signature:	Signature:	Signature: AETL
Printed Name:	Printed Name:	Printed Name: Gretta Lorenz Gonsicon
Date: Time:	Date: Time:	Date: 6/13/23 Time: 15:00

TURN AROUND TIME
☑ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED
☐ HARD COPY
☐ PDF
☐ GEOTRACKER (GLOBAL ID) _____
☐ OTHER (PLEASE SPECIFY) _____

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

AMERICAN ENVIRONMENTAL TESTING LABORATORY

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TEL (888) 288-AETL (818) 845-8200 FAX (818) 845-8840 www.aetlab.com

CHAIN OF CUSTODY RECORD

111397

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut St. Pasadena, CA 91124
PHONE: (310) 809-5793
FAX:
PROJECT NAME: LAUSD Canoga
PROJECT #:
SITE NAME AND ADDRESS: Canoga Park Highschool 6850 CA-27, Canoga Park, CA 91303
PO #:
AETL JOB No. BEF0111
Page 2 of 5

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	STLC-Pb	TCLP-Pb	STLC-As	TCLP-As	TEST INSTRUCTIONS & COMMENTS
1	SB-39-ES-D0.0	BEF0111-15	6/13/2023	0821	Soil	1x9oz	none							Hold
2	SB-39-ES-D3.0	-16		0823										Hold
3	SB-39-E10-D0.5	-17		0831										Hold
4	SB-39-E10-D2.0	18		0833										Hold
5	SB-39-E10-D3.0	19		0835										Hold
6	SB-38-S10-D0.5	20		0851					X			X	X	
7	SB-38-S10-D2.0	21		0854					X					Hold
8	SB-38-S10-D3.0	22		0856					X					Hold
9	SB-38-N5-D0.5	23		0904					X			X		
10	SB-38-N5-D2.0	24		0906					X			X		Hold
11	SB-38-N5-D3.0	25		0909					X					Hold
12	SB-38-N10-D0.5	26		0916					X			X	X	Hold
13	SB-38-N10-D2.0	27		0918					X					Hold
14	SB-38-N10-D3.0	28		0920										Hold
15	SB-38-W5-D0.5	29	↓	0927	↓	↓	↓		X			X	X	

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y/ N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

TURN AROUND TIME

☑ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

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RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: E. Flores	Signature:	Signature:
Printed Name: Edward Davis	Printed Name:	Printed Name:
Date: 6/13/2023 Time: 1500	Date: Time:	Date: Time:
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: 3.**
Signature:	Signature:	Signature: Greta Grayson
Printed Name:	Printed Name:	Printed Name:
Date: Time:	Date: Time:	Date: 6/13/23 Time: 15:00

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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CHAIN OF CUSTODY RECORD

111801

AETL JOB No. BEF0111

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut Street Pasadena, CA 91124
PHONE / FAX: (310) 809-5793
PROJECT NAME: LAVSD Canoga
PROJECT #:
SITE NAME AND ADDRESS: Canoga Park Highschool 6850 CA 27 Canoga Park, CA 91303
PO #:

ANALYSIS REQUESTED

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	STLC-Pb	TCLP-Pb	STLC-As	TCLP-As					TEST INSTRUCTIONS & COMMENTS
1	SB-38-W5-D0.5-DUP	BEF0111-30	6/13/2023	0929	Soil	1 X 9oz	none		X			X	X					
2	SB-38-W5-D2.0	31		0931					X			X						Hold
3	SB-38-W5-D3.0	32		0933					X									Hold
4	SB-38-W10-D0.5	33		0939					X									Hold
5	SB-38-W10-D2.0	34		0941														Hold
6	SB-38-W10-D3.0	35		0943														Hold
7	SB-51-N5-D0.5	36		1039					X									
8	SB-51-N5-D2.0	37		1041					X									Hold
9	SB-51-N5-D3.0	38		1043														Hold
10	SB-51-S5-D0.5	39		1049					X									
11	SB-51-S5-D2.0	40		1051					X									Hold
12	SB-51-S5-D3.0	41		1053														Hold
13	SB-51-E5-D0.5	42		1102					X									
14	SB-51-E5-D2.0	43		1104					X									Hold
15	SB-51-E5-D3.0	44		1107														Hold

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y/ N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: [signature]	Signature:	Signature:
Printed Name: Edward Dabsys	Printed Name:	Printed Name:
Date: 6/13/2023 Time: 1500	Date: Time:	Date: Time:

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: 3.
Signature:	Signature:	Signature: [signature] AETL
Printed Name:	Printed Name:	Printed Name: Greta Pirozzi
Date: Time:	Date: Time:	Date: 6/13/23 Time: 15:00

TURN AROUND TIME
☑ NORMAL ☐ RUSH
☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED
☐ HARD COPY ☐ PDF ☐ GEOTRACKER (GLOBAL ID) ☐ OTHER (PLEASE SPECIFY)

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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CHAIN OF CUSTODY RECORD

COMPANY: Parsons | PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut St. Pasadena, CA 91124 | PHONE / EMAIL: (310) 809-5793
PROJECT NAME: LAVSD Canoga | PROJECT #:
SITE NAME AND ADDRESS: Canoga Park Highschool 6850 CA | PO #: 37
Canoga Park, CA 91303

AETL JOB No. BEF0111 | Page 4 of 5

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	STLC - Pb	TLCP - Pb	STLC - As	TLCP - As	TEST INSTRUCTIONS & COMMENTS
1	SB-S1-W5-D0.5	BEF0111-45	6/13/2023	1114	Soil	1 x 9oz	NONE		X			X	X	
2	SB-S1-W5-D2.0	46	"	1116	"	"	"		X			X	X	Hold
3	SB-S1-W5-D3.0	47	"	1118	"	"	"		X			X	X	Hold
4	SB-3-NW5-D0.5	48	"	1216	"	"	"	X		X				
5	SB-3-NW5-D0.5-Dup	49	"	1218	"	"	"	X						
6	SB-3-NW5-D2.0	50	"	1220	"	"	"	X						Hold
7	SB-3-NW5-D3.0	51	"	1222	"	"	"							Hold
8	SB-3-NW10-D0.5	52	"	1230	"	"	"							Hold
9	SB-3-NW10-D2.0	53	"	1232	"	"	"							Hold
10	SB-3-NW10-D3.0	54	"	1235	"	"	"							Hold
11	SB-20-S5-D0.5	55	"	1250	"	"	"		X					
12	SB-20-S5-D2.0	56	"	1252	"	"	"							
13	SB-20-S5-D3.0	57	"	1254	"	"	"							
14	SB-20-S10-D0.5	58	"	1302	"	"	"							
15	SB-20-S10-D2.0	59	"	1304	"	"	"							

TOTAL NUMBER OF CONTAINERS: 15

BILLING INFORMATION / SPECIAL INSTRUCTIONS

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:	Signature:	Signature:
Printed Name: Edward Dabsis	Printed Name:	Printed Name:
Date: 6/13/2023 Time: 1500	Date: Time:	Date: Time:
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: 3.**
Signature:	Signature:	Signature:
Printed Name:	Printed Name:	Printed Name:
Date: Time:	Date: Time:	Date: 6/13/23 Time: 15:00

TURN AROUND TIME
☐ NORMAL ☐ SAME DAY RUSH ☐ NEXT DAY RUSH
☐ 2 DAYS RUSH ☐ 3 DAYS RUSH ☐ 4 DAYS RUSH

DATA DELIVERABLE REQUIRED
☐ HARD COPY
☐ E-COPY
☐ GEOTRACKER (GLOBAL ID) _____
☐ OTHER (PLEASE SPECIFY) _____

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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CHAIN OF CUSTODY RECORD

111396

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut Street. Pasadena, CA 91124
PHONE / FAX: (310) 809-5793
PROJECT NAME: LAUSD Canoga Park
PROJECT #:
SITE NAME AND ADDRESS: Canoga Park Highschool 6850 CA-27, Canoga Park, CA 91303
PO #:
AETL JOB No. BEF0111
Page 5 of 5

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1	~~SB-ES-030 E.D.~~						
2	~~SB-ES-050 E.D.~~						
3	SB-20-S10-D30	BEF0111-100	6/13/2023	1307	Soil	1x9oz	none
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

ANALYSIS REQUESTED

- Lead (6010B)
- Arsenic (6020)

TEST INSTRUCTIONS & COMMENTS

E.D.
E.D.
Hold

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y/ N / NA	
CEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

TURN AROUND TIME

☑ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY ☐ PDF ☐ GEOTRACKER (GLOBAL ID) _____ ☐ OTHER (PLEASE SPECIFY) _____

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: G. Sabz	Signature:	Signature:
Printed Name: Edward Dabis	Printed Name:	Printed Name:
Date: 6/13/2023 Time: 1500	Date: Time:	Date: Time:
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: 3.**
Signature:	Signature:	Signature:
Printed Name:	Printed Name:	Printed Name: Teresa Rodriguez
Date: Time:	Date: Time:	Date: 6/13/23 Time: 16:10

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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TEL (888) 288-AETL • (818) 845-8200 • www.aetlab.com
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COOLER RECEIPT FORM

Client Name: Parsons

Project Name: Lausd Canoga Project No.:

AETL Job Number: BEF0111

Date Received: 06/13/2023 Received by: Greta G

Carrier: ☐ AETL Courier ☑ Client ☐ GSL ☐ FedEx ☐ UPS
☐Others:

Samples were received in: ☑ Cooler (1) ☐ Other (Specify):

Sample Container Temperature: 5.8 °C IR Gun S/N: 51941911MV

Type of sample containers: ☐ VOA, ☐ Glass bottles, ☑Wide mouth jars, ☐HDPE bottles, ☐ Metal sleeves, ☐ Acetate sleeves, ☐ 5035 Kit: ☐ AETL or ☐ Client, ☐ Tedlar Bags, Summa Canister: ☐ 6L, ☐ 3L, ☐ 1L, Others (Specify): _____

How are samples preserved: ☐ None, ☑ Ice, ☐ Blue Ice, ☐ Dry Ice
☑ None, ☐ HNO_3, ☐ NaOH, ☐ ZnOAc, ☐ HCl, ☐ $Na_2S_2O_3$, ☐ MeOH, ☐ $NaHSO_4$
☐ Other (Specify):

	Yes	No	N/A	Note or Comment
1. Are the COCs Correct?	✔			
2. Are Sample labels legible & indelible ink?	✔			
3. Do samples match the COC?	✔			
4. Are the required analyses clear?	✔			
5. Is there enough samples for required analysis?	✔			
6. Does cooler or samples have custody seal(s)?			✔	
7. Are sample containers in good condition?	✔			
8. Are samples preserved?	✔			
9. Are samples preserved properly for the intended analysis?	✔			
10. Are the VOAs free of headspace? See footnote.			✔	
11. Are the jars free of headspace?			✔	

* = see note below. N/A = Not Applicable

PLEASE NOTE ALL SAMPLES WILL BE DISPOSED OF 30 DAYS AFTER RECEIVING DATE. IF AETL IS INFORMED OTHERWISE, THERE WILL BE A STORAGE CHARGE PER SAMPLE PER MONTH FOR ANY SAMPLE HELD BEYOND 30 DAYS.

◯ Example maximum headspace bubble size; acceptance criteria not to exceed 5-6 mm in diameter.

For headspace bubbles exceeding 6 mm in diameter, sample receiving will tag the VOA and notify the Project Manager. The Project Manager will contact client for Analyze or Resample instructions.

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Parsons	AETL Job Number:	BEF0111	Site:	Canoga Park High School
100 West Walnut Street	Project Number:	[none]		6850 CA-27
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303
	Project Name:	LASUD Canoga	Reported:	07/25/2023 17:05

Case Narrative

The following "Sample Received" Section summarizes the samples received and associated analyses requested as specified on the enclosed chain of custody.

Results as reported by the laboratory apply only to 1) the items tested, 2) as the samples are received, and 3) the accuracy of information provided. Information supplied by the customer that may affect validity of results and may be contained in this report include Project Name/Number, Site Location, Sample Locations, Sampling Dates/Times, Sample ID, Sample Preservation, Sample Matrix, Sample Properties, Field Blanks, Field Duplicates, Field Spikes, and Site Historical Data.

Accreditation applies only to the test methods listed on each scope of accreditation held by the laboratory; certifications held by the laboratory may not apply to results supplied in this report.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

No analytical non-conformances were encountered.

Qualifiers are noted in the report.

The samples were subcontracted to Asset Laboratories for EPA 6020, STLC, and TCLP. Please see attached report for results.

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

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Telephone (888) 288-AETL • (818) 845-8200 • www.aetlab.com
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Parsons	AETL Job Number:	BEF0111	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LASUD Canoga	Reported:	07/25/2023 17:05	

Samples Received

AETL received the following samples on 06/13/2023 with the following specifications

Client ID	Sample Date
SB-38-N10-D3.0	06/13/2023 9:20

Lab ID	Matrix	Quantity of Containers
BEF0111-28	Soil	2

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Total Number of Samples received: 1

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

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Telephone (888) 288-AETL • (818) 845-8200 • www.aetlab.com
A KYZER LABS COMPANY

Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEF0111 [none] Justin King LASUD Canoga	Site: Reported:	Canoga Park High School 6850 CA-27 Canoga Park, CA 91303 07/25/2023 17:05

Positive Hits Summary

Lab ID	Client ID					Sampled
Method	Analyte	Result	Qualifier	Unit		Analyzed

Please see subcontract report.

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEF0111 [none] Justin King LASUD Canoga	Site: Reported:	Canoga Park High School 6850 CA-27 Canoga Park, CA 91303 07/25/2023 17:05

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

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Parsons	AETL Job Number:	BEF0111	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LASUD Canoga	Reported:	07/25/2023 17:05	

Qualifiers and Definitions

Item	Definitions
% wt	Percent Weight
%REC	Percent Recovery
°F	Degrees Fahrenheit
AETL	American Environmental Testing Laboratory, LLC
C	Carbon
CARB	California Air Resources Board
COC	Chain of Custody
Cresols	3-methylphenol/4-methylphenol coelute and cannot be chromatographically separated. Due to this coeluting isomer pair phenomenon, the laboratory uses a single cresol (4-methylphenol) as calibration standard for 3-methylphenol/4-methylphenol.
CRM	Certified Reference Material
DI	Deionized Water
DPD	Department of Planning and Development
DRO	Diesel Range Organics
Dup	Duplicate
ELAP	Environmental Laboratory Accreditation Program
EPA	Environmental Protection Agency
GC/FID	Gas Chromatography Flame Ionization Detection
GRO	Gasoline Range Organics
HC	Hydrocarbon
HEM	Hexane Extractable Material
HMU	Hazardous Material Unit
ICP/MS	Inductively Coupled Plasma Mass Spectrometry
LACSD	Los Angeles County Sanitation Districts
LCS	Laboratory Control Sample - A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes.
LCSD	Laboratory Control Sample Duplicate - A replicate of Laboratory Control Sample.
LOQ	Limit of Quantitation
MDL	Method Detection Limit - The minimum measured concentration of a substance that can be reported with 99% confidence. MDL is statistically derived number which is specific for each instrument, each method and each compound.
mg/kg	Miligrams per Kilogram
mg/L	Miligrams per Liter
ml/L/hr	Milliliter per Liter per Hour
MRO	Motor oil Range Organics
MS	Matrix Spike - A sample prepared, taken through all sample preparation and analytical steps of the procedure and analyzed as an independent test results.
MSD	Matrix Spike Duplicate - A replicate of Matrix Spike Sample.
N	No
ND	Analyte is not detected below Method Detection Limit.

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

AMERICAN ENVIRONMENTAL TESTING LABORATORY, LLC
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A KYZER LABS COMPANY

Parsons	AETL Job Number:	BEF0111	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LASUD Canoga	Reported:	07/25/2023 17:05	

ng/m3	Nanograms per cubic meter
NIOSH	National Institute for Occupational Safety and Health
nL/L	Nanoliters per Liter
NTU	Nephelometric Turbidity Units
Ohm-cm	Ohms per centimeter
ORO	Oil Range Organics
OSHA	Occupational Safety and Health Administration
PCB	Polychlorinated Biphenyl
ppb v	Parts per billion by volume
ppmC	Parts per million Carbon
PSU	Practical Salinity Unit
RL	Reporting Limit - The lowest concentration at which an analyte can be detected in a sample and its concentration can be reported with a specified degree of confidence, accuracy and precision. For usage at AETL, RL is equivalant to LOQ.
RPD	Relative Percent Difference
SIM	Selective Ion Monitoring
SM	Standard Method
SPLP	Synthetic Precipitation Leaching Procedure
STLC	Soluble Threshold Limit Concentration
TCLP	Toxicity Characteristic Leaching Procedure
TPH	Total Petroleum Hydrocarbons
TTLC	Total Threshold Limit Concentrations
ug/kg	Micrograms per Kilogram
ug/L	Micrograms per Liter
ug/m3	Micrograms per cubic meter
WET	Waste Extraction Test
Y	Yes
ZHE	Zero Headspace Extraction

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

July 20, 2023

Hailley Coleman
American Environmental Testing Laboratory, Inc.
2834 N. Naomi Street
Burbank, CA 91504

TEL: (818) 845-8200
FAX:

Workorder No.: N057836

RE: BEF0111.03

Attention: Hailley Coleman

Enclosed are the results for sample(s) received on July 18, 2023 by ASSET Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562) 219-7435 if I can be of further assistance to your company.

Sincerely,

for

Ferdinand Paul Lugtu
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and ASSET Laboratories - California.

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

All sample containers were received intact with proper chain of custody documentation.

Information on sample receipt conditions including discrepancies can be found in attached Sample Receipt Checklist Form.

Cooler temperature and sample preservation were verified upon receipt of samples if applicable.

Samples were analyzed within method holding time.

Analytical Comments for EPA 6020:

Matrix Spike Duplicate (MSD) recovery and RPD criteria are outside criteria for Arsenic in QC samples N057833-001A-MS/MSD possibly due to matrix interference. The associated Laboratory Control Sample (LCS) recovery was acceptable.

CLIENT: American Environmental Testing Laborator
Project: BEF0111.03
Lab Order: N057836
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N057836-001A	BEF0111-28	Soil	6/13/2023 9:20:00 AM	7/18/2023	7/20/2023

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0111-28
Lab Order:	N057836		
Project:	BEF0111.03	**Collection Date:**	6/13/2023 9:20:00 AM
Lab ID:	N057836-001	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP7_230719A	QC Batch: 100889			PrepDate:	7/19/2023	Analyst: **DJ**
Arsenic	7.0	0.50		mg/Kg	1	7/19/2023 05:13 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: American Environmental Testing Laboratory, Inc.
Work Order: N057836
Project: BEF0111.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_S_PPM

Sample ID: **MB-100889**	SampType: **MBLK**	TestCode: **6020_S_PPM**	Units: **mg/Kg**	Prep Date: **7/19/2023**	RunNo: **174027**
Client ID: **PBS**	Batch ID: **100889**	TestNo: **EPA 6020**	**EPA 3050B**	Analysis Date: **7/19/2023**	SeqNo: **5288354**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.50									

Sample ID: **LCS-100889**	SampType: **LCS**	TestCode: **6020_S_PPM**	Units: **mg/Kg**	Prep Date: **7/19/2023**	RunNo: **174027**
Client ID: **LCSS**	Batch ID: **100889**	TestNo: **EPA 6020**	**EPA 3050B**	Analysis Date: **7/19/2023**	SeqNo: **5288355**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	4.790	0.50	5.000	0	95.8	85	115				

Sample ID: **N057833-001A-MS**	SampType: **MS**	TestCode: **6020_S_PPM**	Units: **mg/Kg**	Prep Date: **7/19/2023**	RunNo: **174027**
Client ID: **ZZZZZZ**	Batch ID: **100889**	TestNo: **EPA 6020**	**EPA 3050B**	Analysis Date: **7/19/2023**	SeqNo: **5288359**

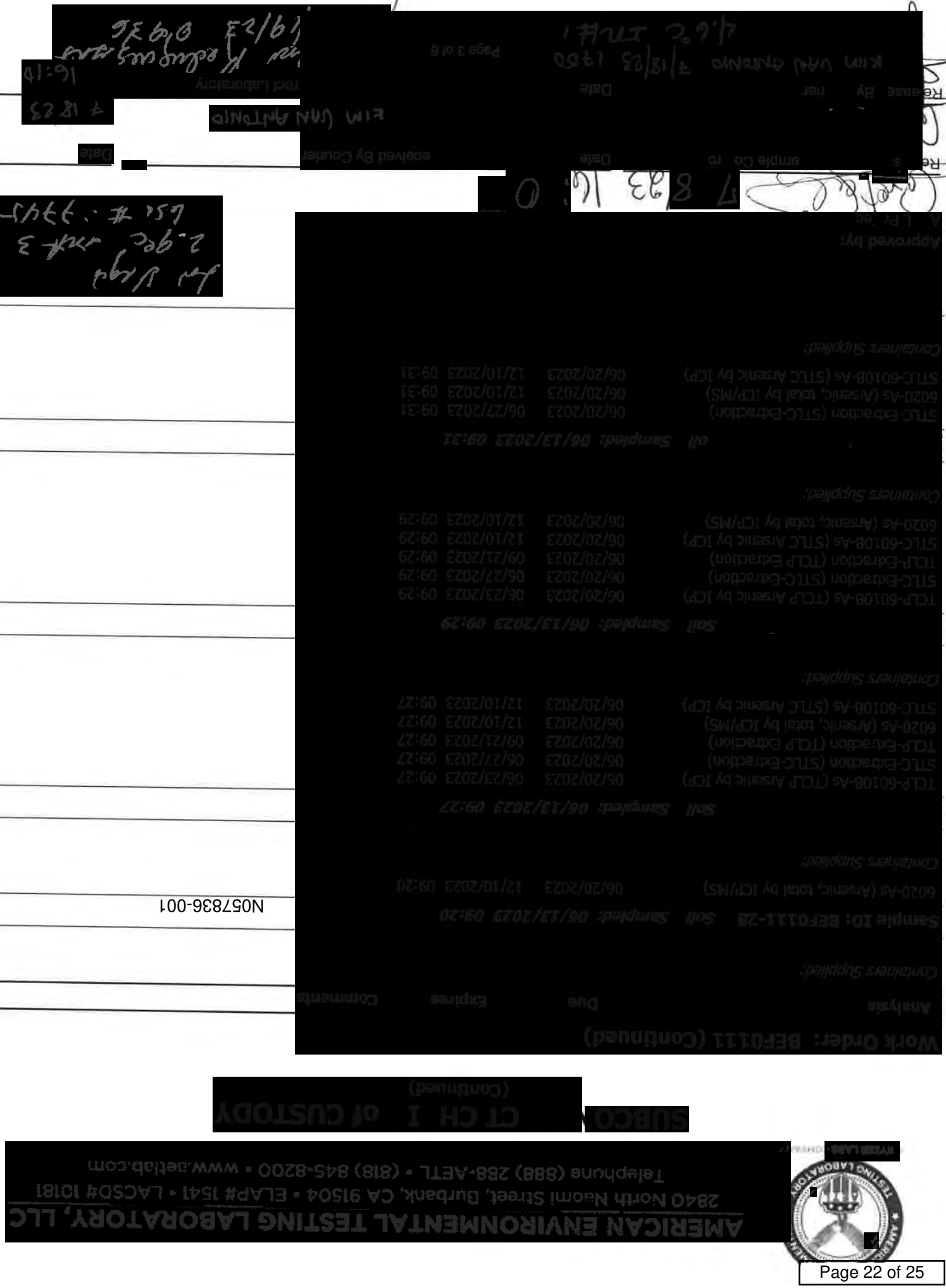
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	9.714	0.50	4.990	4.534	104	75	125				

Sample ID: **N057833-001A-MSD**	SampType: **MSD**	TestCode: **6020_S_PPM**	Units: **mg/Kg**	Prep Date: **7/19/2023**	RunNo: **174027**
Client ID: **ZZZZZZ**	Batch ID: **100889**	TestNo: **EPA 6020**	**EPA 3050B**	Analysis Date: **7/19/2023**	SeqNo: **5288360**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	12.354	0.50	5.000	4.534	156	75	125	9.714	23.9	20	SR

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		



N057836-001

ASSET Laboratories

Please review the checklist below. Any NO signifies non-compliance. Any non-compliance will be noted and must be understood as having an impact on the quality of the data. All tests will be performed as requested regardless of any compliance issues.

If you have any questions or further instruction, please contact our Project Coordinator at (702) 307-2659.

Cooler Received/Opened On:	7/18/2023	Workorder:	N057836
Rep sample Temp (Deg C):	4.6	IR Gun ID:	1
Temp Blank:	☐ Yes ☑ No		
Carrier name:	Walk-In		
Last 4 digits of Tracking No.:	NA	Packing Material Used:	None
Cooling process:	☑ Ice ☐ Ice Pack ☐ Dry Ice ☐ Other ☐ None		

Sample Receipt Checklist

1. Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
2. Custody seals intact, signed, dated on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
3. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
4. Chain of custody present?	Yes ☑	No ☐	
5. Sampler's name present in COC?	Yes ☐	No ☑	
6. Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
7. Chain of custody agrees with sample labels?	Yes ☑	No ☐	
8. Samples in proper container/bottle?	Yes ☑	No ☐	
9. Sample containers intact?	Yes ☑	No ☐	
10. Sufficient sample volume for indicated test?	Yes ☑	No ☐	
11. All samples received within holding time?	Yes ☑	No ☐	
12. Temperature of rep sample or Temp Blank within acceptable limit?	Yes ☑	No ☐	NA ☐
13. Water - VOA vials have zero headspace?	Yes ☐	No ☐	NA ☑
14. Water - pH acceptable upon receipt? Example: pH > 12 for (CN,S); pH<2 for Metals	Yes ☐	No ☐	NA ☑
15. Did the bottle labels indicate correct preservatives used?	Yes ☐	No ☐	NA ☑
16. Were there Non-Conformance issues at login?	Yes ☑	No ☐	NA ☐
Was Client notified?	Yes ☐	No ☐	NA ☑

Comments: Received at Las Vegas Lab on 07/19/23 at 2.9°C, IR#3, GSO#7745.

Checklist Completed By: FOR KS 7/19/2023

Reviewed By: for: MBC

ASSET Laboratories

WORK ORDER Summary

19-Jul-23

WorkOrder: N057836

Client ID: AETL01

Project: BEF0111.03 **QC Level:** RTNE **Date Received:** 7/18/2023 4:10 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N057836-001A	BEF0111-28	6/13/2023 9:20:00 AM	7/26/2023	Soil	EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			7/26/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057836-002A	FOLDER	7/26/2023	7/26/2023		Folder	Folder	☐	☐	☐	LAB
			7/26/2023		Folder	Folder	☐	☐	☐	LAB

GLS

800-322-5555
www.gls-us.com

Ship From
ASSET LABORATORIES
THAD MALIT
11110 ARTESIA BLVD. SUITE B
CERRITOS, CA 90703

Tracking #: 559787745

Ship To
ASSET LABORATORIES
MARLON CARTIN
3151 W. POST RD.,
LAS VEGAS, NV 89118

LAS VEGAS

D000060

COD: $0.00
Weight: 0 lb(s)
Reference:

Delivery Instructions:
HOLD FOR PICKUP
Signature Type: STANDARD

Print Label ☐ Print All Finish

LABEL INSTRUCTIONS:

Do not copy or reprint this label for additional shipments - each package must have a unique barcode.
Step 1: Use the "Print Label" button on this page to print the shipping label on a laser or inkjet printer.
Step 2: Fold this page in half.
Step 3: Securely attach this label to your package and do not cover the barcode.

TERMS AND CONDITIONS:

By giving us your shipment to deliver, you agree to all of the General Logistics Systems US, Inc. (GLS) service terms & conditions including, but not limited to; limits of liability, declared value conditions, and claim procedures which are available on our website at www.gls-us.com.

2.9°C
in #3

AMERICAN ENVIRONMENTAL TESTING LABORATORY, LLC
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June 22, 2023

AETL Job No: BEF0119
Received Date: 06/14/2023
Project Number: [none]

Parsons
100 West Walnut Street
Pasadena, CA 91124
Telephone: (626) 440-6200

Attention: Justin King

Project Name: LAUSD Canoga

Site: Canoga Park High School
6850 CA-27
Canoga Park, CA 91303

Enclosed please find the results of analyses for samples which were analyzed as specified on the attached chain of custody. If you have any questions concerning this report, please do not hesitate to call.

Checked By:

Corey Jones
Project Manager

Approved By:

Hailley Coleman
Project Manager

Table of Contents

Client Project Name: Canoga Park High School Project Number: [none]
Work Order Number: BEF0119

1 Cover Letter 1
2 Sample Condition on Receipt 3
3 Chain of Custody 4
4 Cooler Receipt Forms 6
5 Case Narrative 7
6 Samples Received 8
7 Positive Hits Summary 11
8 Analytical Results 12
9 Quality Control Results 14
10 Qualifiers and Definitions 16
11 Sub Contracted Analysis 18

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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEF0119 [none] Justin King LAUSD Canoga	Site: Reported:	Canoga Park High School 6850 CA-27 Canoga Park, CA 91303 06/22/2023 15:47

Sample Condition on Receipt

Cooler ID: Default Cooler **Temperature: 5.8 °C**

Are the COCs Correct	Y		
Labels Legible	Y	Containers In Good Condition	Y
COC/Labels Agree	Y	Samples Preserved Properly	Y
Sufficient Sample Volume	Y	Sufficient Holding Time for all Tests	Y
Sample Labels intact	Y	Received on Ice	Y

Cooler ID: New Cooler **Temperature: 5.7 °C**

Are the COCs Correct	Y		
Labels Legible	Y	Containers In Good Condition	Y
COC/Labels Agree	Y	Samples Preserved Properly	Y
Sufficient Sample Volume	Y	Sufficient Holding Time for all Tests	Y
Sample Labels intact	Y	Received on Ice	Y

Cooler ID: New Cooler [1] **Temperature: 5.8 °C**

Are the COCs Correct	Y		
Labels Legible	Y	Containers In Good Condition	Y
COC/Labels Agree	Y	Samples Preserved Properly	Y
Sufficient Sample Volume	Y	Sufficient Holding Time for all Tests	Y
Sample Labels intact	Y	Received on Ice	Y

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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CHAIN OF CUSTODY RECORD

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut Street Pasadena, CA 91124
PHONE EMAIL: (310) 809-5793
PROJECT NAME: LAUSD Canoga
PROJECT #:
SITE NAME AND ADDRESS: Canoga Park Highschool 6850 CA-29, Canoga Park, CA 91303
PO #:

AETL JOB No. BEF0119

ANALYSIS REQUESTED

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	TEST INSTRUCTIONS & COMMENTS
1	SB-7-N5-D0.5	BEF0119-01	6/14/2023	0709	Soil	1x9oz	none		X	
2	SB-7-N5-D2.0	02		0711						Hold
3	SB-7-N5-D3.0	03		0713						Hold
4	SB-7-N10-D0.5	04		0721						Hold
5	SB-7-N10-D2.0	05		0723						Hold
6	SB-7-N10-D3.0	06		0726						Hold
7	SB-7-W5-D0.5	07		0732					X	
8	SB-7-W10-D0.5	08		0741						Hold
9	SB-7-W10-D2.0	09		0743						Hold
10	SB-7-W10-D3.0	010		0745						Hold
11	SB-7-S5-D0.5	011		0752					X	
12	SB-7-S5-D0.5-Dup	12		0754					X	
13	SB-7-S10-D0.5	13		0808						Hold
14	SB-7-S5-D2.0	14		0756						Hold
15	SB-7-S5-D3.0	15		0759						Hold

TOTAL NUMBER OF CONTAINERS: 15

BILLING INFORMATION / SPECIAL INSTRUCTIONS

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: G. Salazar	Signature:	Signature:
Printed Name: Edward Dabis	Printed Name:	Printed Name:
Date: 6/14/2023 Time: 1215	Date: Time:	Date: Time:

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: AETL 3.
Signature:	Signature:	Signature:
Printed Name:	Printed Name:	Printed Name: Oret a Lirey oos en
Date: Time:	Date: Time:	Date: 6/14/23 Time: 19:15

TURN AROUND TIME
NORMAL ☐ SAME DAY RUSH ☐ NEXT DAY RUSH
2 DAYS RUSH ☐ 3 DAYS RUSH ☐ 4 DAYS RUSH

DATA DELIVERABLE REQUIRED
☐ HARD COPY
☐ E-COPY
☐ GEOTRACKER (GLOBAL ID) _____
☐ OTHER (PLEASE SPECIFY) _____

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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CHAIN OF CUSTODY RECORD

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut St. Pasadena, CA 91124
PHONE EMAIL: (310) 809-5793
PROJECT NAME: LAUSD Canoga
PROJECT #:
SITE NAME AND ADDRESS: Canoga Park Highschool 6850 CA-27, Canoga Park, CA 91303
PO#:

AETL JOB No. BEF0119

ANALYSIS REQUESTED

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)									TEST INSTRUCTIONS & COMMENTS
1	SB-7-S10-D2.0	BEF0119-16	6/14/2023	0810	Soil	1 x 9oz	none											Hold
2	SB-7-S10-D3.0	17		0813														Hold
3	SB-28-E10-D3.0	18		0850														Hold
4	SB-28-E10-D0.5	19		0846				X										
5	SB-28-E10-D2.0	20		0848														Hold
6	SB-28-W10-D3.0	21		0902														Hold
7	SB-28-W10-D2.0	22		0900														Hold
8	SB-28-W10-D0.5	23		0857				X										
9	SB-34-N10-D0.5	24		0919					X									
10	SB-34-N10-D0.5-DUP	25		0921					X									
11	SB-34-N10-D2.0	26		0923														Hold
12	SB-34-N10-D3.0	27		0925														Hold
13	SB-34-S10-D0.5	28		0933					X									
14	SB-34-S10-D2.0	29		0936														Hold
15	SB-34-S10-D3.0	30		0938														Hold

TOTAL NUMBER OF CONTAINERS: 15

BILLING INFORMATION / SPECIAL INSTRUCTIONS

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: [signature]	Signature:	Signature:
Printed Name: Edward Dabys	Printed Name:	Printed Name:
Date: 6/14/23 Time: 1215	Date: Time:	Date: Time:

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: AETL 3.
Signature:	Signature:	Signature: [signature]
Printed Name:	Printed Name:	Printed Name: Greta Giragoosi
Date: Time:	Date: Time:	Date: 6/14/23 Time: 1215

TURN AROUND TIME
- [x] NORMAL
- [ ] SAME DAY RUSH
- [ ] NEXT DAY RUSH
- [ ] 2 DAYS RUSH
- [ ] 3 DAYS RUSH
- [ ] 4 DAYS RUSH

DATA DELIVERABLE REQUIRED
- [ ] HARD COPY
- [ ] E-COPY
- [ ] GEOTRACKER (GLOBAL ID) _____
- [ ] OTHER (PLEASE SPECIFY) _____

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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COOLER RECEIPT FORM

Client Name: Parsons

Project Name: LAUSD Canoga Project No.:

AETL Job Number: BEF0119

Date Received: 06/14/2023 Received by: Greta G

Carrier: ☐ AETL Courier ☑ Client ☐ GSL ☐ FedEx ☐ UPS
☐Others:

Samples were received in: ☑ Cooler (1) ☐ Other (Specify):

Sample Container Temperature: 5.8 °C IR Gun S/N: 51941911MV

Type of sample containers: ☐ VOA, ☐ Glass bottles, ☑Wide mouth jars, ☐HDPE bottles, ☐ Metal sleeves, ☐ Acetate sleeves, ☐ 5035 Kit: ☐ AETL or ☐ Client, ☐ Tedlar Bags, Summa Canister: ☐ 6L, ☐ 3L, ☐ 1L, Others (Specify): _____

How are samples preserved: ☐ None, ☑ Ice, ☐ Blue Ice, ☐ Dry Ice
☑ None, ☐ HNO_3, ☐ NaOH, ☐ ZnOAc, ☐ HCl, ☐ $Na_2S_2O_3$, ☐ MeOH, ☐ $NaHSO_4$
☐ Other (Specify):

	Yes	No	N/A	Note or Comment
1. Are the COCs Correct?	✔			
2. Are Sample labels legible & indelible ink?	✔			
3. Do samples match the COC?	✔			
4. Are the required analyses clear?	✔			
5. Is there enough samples for required analysis?	✔			
6. Does cooler or samples have custody seal(s)?			✔	
7. Are sample containers in good condition?	✔			
8. Are samples preserved?	✔			
9. Are samples preserved properly for the intended analysis?	✔			
10. Are the VOAs free of headspace? See footnote.			✔	
11. Are the jars free of headspace?			✔	

* = see note below. N/A = Not Applicable

PLEASE NOTE ALL SAMPLES WILL BE DISPOSED OF 30 DAYS AFTER RECEIVING DATE. IF AETL IS INFORMED OTHERWISE, THERE WILL BE A STORAGE CHARGE PER SAMPLE PER MONTH FOR ANY SAMPLE HELD BEYOND 30 DAYS.

◯ Example maximum headspace bubble size; acceptance criteria not to exceed 5-6 mm in diameter.

For headspace bubbles exceeding 6 mm in diameter, sample receiving will tag the VOA and notify the Project Manager. The Project Manager will contact client for Analyze or Resample instructions.

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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEF0119 [none] Justin King LAUSD Canoga	Site: Reported:	Canoga Park High School 6850 CA-27 Canoga Park, CA 91303 06/22/2023 15:47

Case Narrative

The following "Sample Received" Section summarizes the samples received and associated analyses requested as specified on the enclosed chain of custody.

Results as reported by the laboratory apply only to 1) the items tested, 2) as the samples are received, and 3) the accuracy of information provided. Information supplied by the customer that may affect validity of results and may be contained in this report include Project Name/Number, Site Location, Sample Locations, Sampling Dates/Times, Sample ID, Sample Preservation, Sample Matrix, Sample Properties, Field Blanks, Field Duplicates, Field Spikes, and Site Historical Data.

Accreditation applies only to the test methods listed on each scope of accreditation held by the laboratory; certifications held by the laboratory may not apply to results supplied in this report.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

No analytical non-conformances were encountered.

Qualifiers are noted in the report.

The sample was subcontracted to Asset Laboratories for EPA 6020. Please see attached report for results.

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEF0119 [none] Justin King LAUSD Canoga	Site: Reported:	Canoga Park High School 6850 CA-27 Canoga Park, CA 91303 06/22/2023 15:47

Samples Received

AETL received the following samples on 06/14/2023 with the following specifications

Client ID	Sample Date
SB-7-N5-D0.5	06/14/2023 7:09

Lab ID	Matrix	Quantity of Containers
BEF0119-01	Soil	2

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Client ID	Sample Date
SB-7-W5-D0.5	06/14/2023 7:32

Lab ID	Matrix	Quantity of Containers
BEF0119-07	Soil	2

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Client ID	Sample Date
SB-7-S5-D0.5	06/14/2023 7:52

Lab ID	Matrix	Quantity of Containers
BEF0119-11	Soil	2

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Client ID	Sample Date
SB-7-S5-D0.5-DUP	06/14/2023 7:54

Lab ID	Matrix	Quantity of Containers
BEF0119-12	Soil	2

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

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AMERICAN ENVIRONMENTAL TESTING LABORATORY, LLC
2840 North Naomi Street, Burbank, CA 91504 • ELAP# 1541 • LACSD# 10181
Telephone (888) 288-AETL • (818) 845-8200 • www.aetlab.com
A KYZER LABS COMPANY

Parsons	AETL Job Number:	BEF0119	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LAUSD Canoga	Reported:	06/22/2023 15:47	

Samples Received

(Continued)

AETL received the following samples on 06/14/2023 with the following specifications

Client ID: SB-28-E10-D0.5 **Sample Date:** 06/14/2023 8:46

Lab ID: BEF0119-19 **Matrix:** Soil **Quantity of Containers:** 1

Method	Analyte	Units	TAT
EPA 6010B	Lead, total by ICP	mg/kg	5

Client ID: SB-28-W10-D0.5 **Sample Date:** 06/14/2023 8:57

Lab ID: BEF0119-23 **Matrix:** Soil **Quantity of Containers:** 1

Method	Analyte	Units	TAT
EPA 6010B	Lead, total by ICP	mg/kg	5

Client ID: SB-34-N10-D0.5 **Sample Date:** 06/14/2023 9:19

Lab ID: BEF0119-24 **Matrix:** Soil **Quantity of Containers:** 2

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Client ID: SB-34-N10-D0.5-DUP **Sample Date:** 06/14/2023 9:21

Lab ID: BEF0119-25 **Matrix:** Soil **Quantity of Containers:** 2

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

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A KYZER LABS COMPANY

Parsons	AETL Job Number:	BEF0119	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LAUSD Canoga	Reported:	06/22/2023 15:47	

Samples Received

(Continued)

AETL received the following samples on 06/14/2023 with the following specifications

Client ID			Sample Date
SB-34-S10-D0.5			06/14/2023 9:33
Lab ID		**Matrix**	**Quantity of Containers**
BEF0119-28		Soil	2

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Total Number of Samples received: 9

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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEF0119 [none] Justin King LAUSD Canoga	Site: Reported:	Canoga Park High School 6850 CA-27 Canoga Park, CA 91303 06/22/2023 15:47

Positive Hits Summary

Lab ID	Client ID				Sampled
BEF0119-19	SB-28-E10-D0.5				06/14/2023 08:46
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	111		mg/kg	06/20/2023 15:59

Lab ID	Client ID				Sampled
BEF0119-23	SB-28-W10-D0.5				06/14/2023 08:57
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	25.7		mg/kg	06/20/2023 16:02

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Parsons	AETL Job Number:	BEF0119	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LAUSD Canoga	Reported:	06/22/2023 15:47	

Analytical Results

Client ID: SB-28-E10-D0.5
Lab ID: BEF0119-19 (Soil) **Sampled:** 06/14/23 8:46

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Lead	**111**		1	0.550	5.00	mg/kg	06/16/23 08:45	06/20/23 15:59	B3F0207	LC	3050B

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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEF0119 [none] Justin King LAUSD Canoga	Site: Reported:	Canoga Park High School 6850 CA-27 Canoga Park, CA 91303 06/22/2023 15:47	

Analytical Results

Client ID: **SB-28-W10-D0.5**
Lab ID: **BEF0119-23 (Soil)** **Sampled:** **06/14/23 8:57**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Lead	**25.7**		1	0.550	5.00	mg/kg	06/16/23 08:45	06/20/23 16:02	B3F0207	LC	3050B

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Parsons	AETL Job Number:	BEF0119	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LAUSD Canoga	Reported:	06/22/2023 15:47	

Quality Control Results

Metals Total (EPA 6010B)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3F0207 - 3050B					**Prepared: 06/16/2023 08:45**						
Method Blank (B3F0207-BLK1)					**Analyzed: 06/20/2023 15:38**						
Lead	ND	0.550	5.00	mg/kg							

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Parsons	AETL Job Number:	BEF0119	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LAUSD Canoga	Reported:	06/22/2023 15:47	

Quality Control Results

Metals Total (EPA 6010B)

Analyte	Result		RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3F0207 - 3050B (Continued)					**Prepared: 06/16/2023 08:45**						
LCS (B3F0207-BS1)					**Analyzed: 06/20/2023 15:41**						
Lead	107		5.00	mg/kg	100		107	75-125			
LCSD (B3F0207-BSD1)					**Analyzed: 06/20/2023 15:44**						
Lead	108		5.00	mg/kg	98.0		110	75-125	0.869	15	
Duplicate (B3F0207-DUP1)		**Source: BEF0125-01**			**Analyzed: 06/20/2023 15:50**						
Lead	8.37	0.550	5.00	mg/kg		8.42			0.616	20	
Matrix Spike (B3F0207-MS1)		**Source: BEF0125-01**			**Analyzed: 06/20/2023 15:53**						
Lead	99.2	0.550	5.00	mg/kg	98.0	8.42	92.6	75-125			
Matrix Spike Dup (B3F0207-MSD1)		**Source: BEF0125-01**			**Analyzed: 06/20/2023 15:56**						
Lead	95.1	0.550	5.00	mg/kg	97.1	8.42	89.3	75-125	4.21	15	

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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEF0119 [none] Justin King LAUSD Canoga	Site: Reported:	Canoga Park High School 6850 CA-27 Canoga Park, CA 91303 06/22/2023 15:47

Qualifiers and Definitions

Item	Definitions
% wt	Percent Weight
%REC	Percent Recovery
°F	Degrees Fahrenheit
AETL	American Environmental Testing Laboratory, LLC
C	Carbon
CARB	California Air Resources Board
COC	Chain of Custody
Cresols	3-methylphenol/4-methylphenol coelute and cannot be chromatographically separated. Due to this coeluting isomer pair phenomenon, the laboratory uses a single cresol (4-methylphenol) as calibration standard for 3-methylphenol/4-methylphenol.
CRM	Certified Reference Material
DI	Deionized Water
DPD	Department of Planning and Development
DRO	Diesel Range Organics
Dup	Duplicate
ELAP	Environmental Laboratory Accreditation Program
EPA	Environmental Protection Agency
GC/FID	Gas Chromatography Flame Ionization Detection
GRO	Gasoline Range Organics
HC	Hydrocarbon
HEM	Hexane Extractable Material
HMU	Hazardous Material Unit
ICP/MS	Inductively Coupled Plasma Mass Spectrometry
LACSD	Los Angeles County Sanitation Districts
LCS	Laboratory Control Sample - A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes.
LCSD	Laboratory Control Sample Duplicate - A replicate of Laboratory Control Sample.
LOQ	Limit of Quantitation
MDL	Method Detection Limit - The minimum measured concentration of a substance that can be reported with 99% confidence. MDL is statistically derived number which is specific for each instrument, each method and each compound.
mg/kg	Miligrams per Kilogram
mg/L	Miligrams per Liter
ml/L/hr	Milliliter per Liter per Hour
MRO	Motor oil Range Organics
MS	Matrix Spike - A sample prepared, taken through all sample preparation and analytical steps of the procedure and analyzed as an independent test results.
MSD	Matrix Spike Duplicate - A replicate of Matrix Spike Sample.
N	No
ND	Analyte is not detected below Method Detection Limit.

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Parsons	AETL Job Number:	BEF0119	Site:	Canoga Park High School
100 West Walnut Street	Project Number:	[none]		6850 CA-27
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303
	Project Name:	LAUSD Canoga	Reported:	06/22/2023 15:47

ng/m3	Nanograms per cubic meter
NIOSH	National Institute for Occupational Safety and Health
nL/L	Nanoliters per Liter
NTU	Nephelometric Turbidity Units
Ohm-cm	Ohms per centimeter
ORO	Oil Range Organics
OSHA	Occupational Safety and Health Administration
PCB	Polychlorinated Biphenyl
ppb v	Parts per billion by volume
ppmC	Parts per million Carbon
PSU	Practical Salinity Unit
RL	Reporting Limit - The lowest concentration at which an analyte can be detected in a sample and its concentration can be reported with a specified degree of confidence, accuracy and precision. For usage at AETL, RL is equivalant to LOQ.
RPD	Relative Percent Difference
SIM	Selective Ion Monitoring
SM	Standard Method
SPLP	Synthetic Precipitation Leaching Procedure
STLC	Soluble Threshold Limit Concentration
TCLP	Toxicity Characteristic Leaching Procedure
TPH	Total Petroleum Hydrocarbons
TTLC	Total Threshold Limit Concentrations
ug/kg	Micrograms per Kilogram
ug/L	Micrograms per Liter
ug/m3	Micrograms per cubic meter
WET	Waste Extraction Test
Y	Yes
ZHE	Zero Headspace Extraction

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June 22, 2023

Hailley Coleman
American Environmental Testing Laboratory, Inc.
2834 N. Naomi Street
Burbank, CA 91504

TEL: (818) 845-8200
FAX:

Workorder No.: N057199

RE: BEF0119

Attention: Hailley Coleman

Enclosed are the results for sample(s) received on June 15, 2023 by ASSET Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562) 219-7435 if I can be of further assistance to your company.

Sincerely,

for

Ferdinand Paul Lugtu
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and ASSET Laboratories - California.

SAMPLE RECEIVING/GENERAL COMMENTS:

All sample containers were received intact with proper chain of custody documentation.

Information on sample receipt conditions including discrepancies can be found in attached Sample Receipt Checklist Form.

Cooler temperature and sample preservation were verified upon receipt of samples if applicable.

Samples were analyzed within method holding time.

CLIENT: American Environmental Testing Laborator
Project: BEF0119
Lab Order: N057199
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N057199-001A	BEF0119-01	Soil	6/14/2023 7:09:00 AM	6/15/2023	6/22/2023
N057199-002A	BEF0119-07	Soil	6/14/2023 7:32:00 AM	6/15/2023	6/22/2023
N057199-003A	BEF0119-11	Soil	6/14/2023 7:52:00 AM	6/15/2023	6/22/2023
N057199-004A	BEF0119-12	Soil	6/14/2023 7:54:00 AM	6/15/2023	6/22/2023
N057199-005A	BEF0119-24	Soil	6/14/2023 9:19:00 AM	6/15/2023	6/22/2023
N057199-006A	BEF0119-25	Soil	6/14/2023 9:21:00 AM	6/15/2023	6/22/2023
N057199-007A	BEF0119-28	Soil	6/14/2023 9:33:00 AM	6/15/2023	6/22/2023

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0119-01
Lab Order:	N057199		
Project:	BEF0119	**Collection Date:**	6/14/2023 7:09:00 AM
Lab ID:	N057199-001	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230619C	QC Batch: 100347			PrepDate:	6/17/2023	Analyst: **DJ**
Arsenic	38	0.50		mg/Kg	1	6/19/2023 04:55 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0119-07
Lab Order:	N057199		
Project:	BEF0119	**Collection Date:**	6/14/2023 7:32:00 AM
Lab ID:	N057199-002	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230619C	QC Batch: 100347			PrepDate:	6/17/2023	Analyst: **DJ**
Arsenic	23	0.50		mg/Kg	1	6/19/2023 05:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0119-11
Lab Order:	N057199		
Project:	BEF0119	**Collection Date:**	6/14/2023 7:52:00 AM
Lab ID:	N057199-003	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230619C	QC Batch: 100347			PrepDate:	6/17/2023	Analyst: **DJ**
Arsenic	18	0.50		mg/Kg	1	6/19/2023 05:04 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0119-12
Lab Order:	N057199		
Project:	BEF0119	**Collection Date:**	6/14/2023 7:54:00 AM
Lab ID:	N057199-004	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230619C	QC Batch: 100347			PrepDate:	6/17/2023	Analyst: **DJ**
Arsenic	18	0.50		mg/Kg	1	6/19/2023 05:09 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0119-24
Lab Order:	N057199		
Project:	BEF0119	**Collection Date:**	6/14/2023 9:19:00 AM
Lab ID:	N057199-005	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230619C	QC Batch: 100347			PrepDate:	6/17/2023	Analyst: **DJ**
Arsenic	240	2.5		mg/Kg	5	6/19/2023 06:05 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0119-25
Lab Order:	N057199		
Project:	BEF0119	**Collection Date:**	6/14/2023 9:21:00 AM
Lab ID:	N057199-006	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230619C	QC Batch: 100347			PrepDate:	6/17/2023	Analyst: **DJ**
Arsenic	270	2.5		mg/Kg	5	6/19/2023 06:09 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0119-28
Lab Order:	N057199		
Project:	BEF0119	**Collection Date:**	6/14/2023 9:33:00 AM
Lab ID:	N057199-007	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230619C	QC Batch: 100347			PrepDate:	6/17/2023	Analyst: **DJ**
Arsenic	280	2.5		mg/Kg	5	6/19/2023 06:14 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: American Environmental Testing Laboratory, Inc.
Work Order: N057199
Project: BEF0119

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_S_PPM

Sample ID: **MB-100347**	SampType: **MBLK**	TestCode: **6020_S_PPM**	Units: **mg/Kg**	Prep Date: **6/17/2023**	RunNo: **173320**
Client ID: **PBS**	Batch ID: **100347**	TestNo: **EPA 6020**	**EPA 3050B**	Analysis Date: **6/19/2023**	SeqNo: **5255536**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.50									

Sample ID: **LCS-100347**	SampType: **LCS**	TestCode: **6020_S_PPM**	Units: **mg/Kg**	Prep Date: **6/17/2023**	RunNo: **173320**
Client ID: **LCSS**	Batch ID: **100347**	TestNo: **EPA 6020**	**EPA 3050B**	Analysis Date: **6/19/2023**	SeqNo: **5255537**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	4.809	0.50	5.000	0	96.2	85	115				

Sample ID: **N057216-005A-MS**	SampType: **MS**	TestCode: **6020_S_PPM**	Units: **mg/Kg**	Prep Date: **6/17/2023**	RunNo: **173320**
Client ID: **ZZZZZZ**	Batch ID: **100347**	TestNo: **EPA 6020**	**EPA 3050B**	Analysis Date: **6/19/2023**	SeqNo: **5255550**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	9.942	0.50	4.993	5.119	96.6	75	125				

Sample ID: **N057216-005A-MSD**	SampType: **MSD**	TestCode: **6020_S_PPM**	Units: **mg/Kg**	Prep Date: **6/17/2023**	RunNo: **173320**
Client ID: **ZZZZZZ**	Batch ID: **100347**	TestNo: **EPA 6020**	**EPA 3050B**	Analysis Date: **6/19/2023**	SeqNo: **5255551**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	8.919	0.50	4.990	5.119	76.1	75	125	9.942	10.8	20	

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

57199

AMERICAN ENVIRONMENTAL TESTING LABORATORY, LLC
2840 North Naomi Street, Burbank, CA 91504 • ELAP# 1541 • LACSD# 10181
Telephone (888) 288-AETL • (818) 845-8200 • www.aetlab.com

SUBCONTRACT CHAIN of CUSTODY

Sending Laboratory:

AETL
AETL, LLC. 2840 N. Naomi Street
Burbank, CA 91504
Phone: 818-845-8200

Project Manager: Hailley Coleman
Email: hcoleman@aetlab.com

Subcontracted Laboratory:

ASSET Laboratories
11110 Artesia Blvd.
Cerritos, CA 90703
Phone: (702)307-2659
Fax: (562)219-7435

Work Order: BEF0119 PO#SUB-35496

Analysis	Due	Expires	Comments
Sample ID: BEF0119-01 *Soil* *Sampled: 06/14/2023 07:09*			5-DAY TAT
6020-As (Arsenic, total by ICP/MS)	06/21/2023	12/11/2023 07:09	
Containers Supplied:			N057199-001
Sample ID: BEF0119-07 *Soil* *Sampled: 06/14/2023 07:32*			
6020-As (Arsenic, total by ICP/MS)	06/21/2023	12/11/2023 07:32	-002
Containers Supplied:			
Sample ID: BEF0119-11 *Soil* *Sampled: 06/14/2023 07:52*			
6020-As (Arsenic, total by ICP/MS)	06/21/2023	12/11/2023 07:52	-003
Containers Supplied:			
Sample ID: BEF0119-12 *Soil* *Sampled: 06/14/2023 07:54*			
6020-As (Arsenic, total by ICP/MS)	06/21/2023	12/11/2023 07:54	-004
Containers Supplied:			
Sample ID: BEF0119-24 *Soil* *Sampled: 06/14/2023 09:19*			
6020-As (Arsenic, total by ICP/MS)	06/21/2023	12/11/2023 09:19	-005

Approved by: HAILLEY COLEMAN 6/15/23
AETL Project Manager Date

[signature] 6/15/23
Released By AETL Sample Control Date

Received By Courier Date

[signature] 6/15/23
Released By Courier Date

[signature] KIM VAN ANTONIO 6/15/23
Received By Subcontract Laboratory Date

1:30pm 1:30 PM

KIM VAN ANTONIO 6/15/23 1700

5.8°C IR#1 6/16/23 9:23AM

LV 4.7°C IR# 3615 0720

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SUBCONTRACT CHAIN of CUSTODY
(Continued)

Work Order: BEF0119 (Continued)

Analysis	Due	Expires	Comments
Containers Supplied:			
Sample ID: BEF0119-25 ***Soil*** ***Sampled: 06/14/2023 09:21***			
6020-As (Arsenic, total by ICP/MS)	06/21/2023	12/11/2023 09:21	
Containers Supplied:			N057199-006
Sample ID: BEF0119-28 ***Soil*** ***Sampled: 06/14/2023 09:33***			
6020-As (Arsenic, total by ICP/MS)	06/21/2023	12/11/2023 09:33	
Containers Supplied:			-007

Approved by:

AETL Project Manager — Date

Released By AETL Sample Control — Date 6/15/23

Released By Courier — Date 6/15/23

Received By Courier — Date

Received By Subcontract Laboratory — Date 6/15/23

1:30pm Page 2 of 2

KIM SANANTONIO 6/15/23 1700 LV 4.7°C IR#3 6150720 5.8°C IR#1

ASSET Laboratories

Please review the checklist below. Any NO signifies non-compliance. Any non-compliance will be noted and must be understood as having an impact on the quality of the data. All tests will be performed as requested regardless of any compliance issues.

If you have any questions or further instruction, please contact our Project Coordinator at (702) 307-2659.

Cooler Received/Opened On:	6/15/2023	Workorder:	N057199
Rep sample Temp (Deg C):	5.8	IR Gun ID:	1
Temp Blank:	☐ Yes ☑ No		
Carrier name:	Walk-In		
Last 4 digits of Tracking No.:	NA	Packing Material Used:	None
Cooling process:	☑ Ice ☐ Ice Pack ☐ Dry Ice ☐ Other ☐ None		

Sample Receipt Checklist

1. Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
2. Custody seals intact, signed, dated on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
3. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
4. Chain of custody present?	Yes ☑	No ☐	
5. Sampler's name present in COC?	Yes ☐	No ☑	
6. Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
7. Chain of custody agrees with sample labels?	Yes ☑	No ☐	
8. Samples in proper container/bottle?	Yes ☑	No ☐	
9. Sample containers intact?	Yes ☑	No ☐	
10. Sufficient sample volume for indicated test?	Yes ☑	No ☐	
11. All samples received within holding time?	Yes ☑	No ☐	
12. Temperature of rep sample or Temp Blank within acceptable limit?	Yes ☑	No ☐	NA ☐
13. Water - VOA vials have zero headspace?	Yes ☐	No ☐	NA ☑
14. Water - pH acceptable upon receipt? Example: pH > 12 for (CN,S); pH<2 for Metals	Yes ☐	No ☐	NA ☑
15. Did the bottle labels indicate correct preservatives used?	Yes ☐	No ☐	NA ☑
16. Were there Non-Conformance issues at login?	Yes ☑	No ☐	NA ☐
Was Client notified?	Yes ☐	No ☐	NA ☑

Comments: Received at Las Vegas Lab on 6/16/2023 at 5.8°C, IR#3, via GLS#0720.

Checklist Completed By: KS 6/16/2023

Reviewed By:

ASSET Laboratories

WORK ORDER Summary

16-Jun-23

WorkOrder: N057199

Client ID: AETL01

Project: BEF0119 **QC Level:** RTNE **Date Received:** 6/15/2023 1:30 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N057199-001A	BEF0119-01	6/14/2023 7:09:00 AM	6/22/2023	Soil	EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			6/22/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057199-002A	BEF0119-07	6/14/2023 7:32:00 AM	6/22/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			6/22/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057199-003A	BEF0119-11	6/14/2023 7:52:00 AM	6/22/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			6/22/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057199-004A	BEF0119-12	6/14/2023 7:54:00 AM	6/22/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			6/22/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057199-005A	BEF0119-24	6/14/2023 9:19:00 AM	6/22/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			6/22/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057199-006A	BEF0119-25	6/14/2023 9:21:00 AM	6/22/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			6/22/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057199-007A	BEF0119-28	6/14/2023 9:33:00 AM	6/22/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			6/22/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057199-008A	FOLDER	6/22/2023	6/22/2023		Folder	Folder	☐	☐	☐	LAB
			6/22/2023		Folder	Folder	☐	☐	☐	LAB

GLS.

800-322-5555
www.gls-us.com

Ship From
ASSET LABORATORIES
THAD MALIT
11110 ARTESIA BLVD. SUITE B
CERRITOS, CA 90703

Ship To
ASSET LABORATORIES
MARLON CARTIN
3151 W. POST RD.,
LAS VEGAS, NV 89118

COD: $0.00
Weight: 0 lb(s)
Reference:

Delivery Instructions:
HOLD FOR PICKUP
Signature Type: STANDARD

Tracking #: 559600720

PDS

LAS VEGAS

C89102A

88227518

LVS NV891-A 8

Print Date: 6/15/2023 4:42 PM

Print Label ☐ Print All **Finish** 1 of 1

LABEL INSTRUCTIONS:

Do not copy or reprint this label for additional shipments - each package must have a unique barcode.
Step 1: Use the "Print Label" button on this page to print the shipping label on a laser or inkjet printer.
Step 2: Fold this page in half.
Step 3: Securely attach this label to your package and do not cover the barcode.

TERMS AND CONDITIONS:

By giving us your shipment to deliver, you agree to all of the General Logistics Systems US, Inc. (GLS) service terms & conditions including, but not limited to; limits of liability, declared value conditions, and claim procedures which are available on our website at www.gls-us.com.

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July 07, 2023

AETL Job No: BEF0119.01
Received Date: 06/14/2023
Project Number: [none]

Parsons
100 West Walnut Street
Pasadena, CA 91124
Telephone: (626) 440-6200

Attention: Justin King

Project Name: LAUSD Canoga

Site: Canoga Park High School
6850 CA-27
Canoga Park, CA 91303

Enclosed please find the results of analyses for samples which were analyzed as specified on the attached chain of custody. If you have any questions concerning this report, please do not hesitate to call.

Checked By: Hailley Coleman
Hailley Coleman
Project Manager

Approved By: Joe Sevrean
Joe Sevrean
Laboratory Director

Table of Contents

Client Project Name: Canoga Park High School Project Number: [none]
Work Order Number: BEF0119

1 Cover Letter 1
2 Sample Condition on Receipt 3
3 Chain of Custody 4
4 Cooler Receipt Forms 6
5 Case Narrative 7
6 Samples Received 8
7 Positive Hits Summary 12
8 Analytical Results 13
9 Quality Control Results 14
10 Qualifiers and Definitions 16
11 Sub Contracted Analysis 18

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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEF0119 [none] Justin King LAUSD Canoga	Site: Reported:	Canoga Park High School 6850 CA-27 Canoga Park, CA 91303 07/07/2023 11:36

Sample Condition on Receipt

Cooler ID: Default Cooler **Temperature: 5.8 °C**

Are the COCs Correct	Y		
Labels Legible	Y	Containers In Good Condition	Y
COC/Labels Agree	Y	Samples Preserved Properly	Y
Sufficient Sample Volume	Y	Sufficient Holding Time for all Tests	Y
Sample Labels intact	Y	Received on Ice	Y

Cooler ID: New Cooler **Temperature: 5.7 °C**

Are the COCs Correct	Y		
Labels Legible	Y	Containers In Good Condition	Y
COC/Labels Agree	Y	Samples Preserved Properly	Y
Sufficient Sample Volume	Y	Sufficient Holding Time for all Tests	Y
Sample Labels intact	Y	Received on Ice	Y

Cooler ID: New Cooler [1] **Temperature: 5.8 °C**

Are the COCs Correct	Y		
Labels Legible	Y	Containers In Good Condition	Y
COC/Labels Agree	Y	Samples Preserved Properly	Y
Sufficient Sample Volume	Y	Sufficient Holding Time for all Tests	Y
Sample Labels intact	Y	Received on Ice	Y

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

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CHAIN OF CUSTODY RECORD

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut Street Pasadena, CA 91124
PHONE EMAIL: (310) 809-5793
PROJECT NAME: LAUSD Canoga
PROJECT #:
SITE NAME AND ADDRESS: Canoga Park Highschool 6850 CA-29, Canoga Park, CA 91303
PO #:

AETL JOB No. BEF0119

Page 1 of 2

ANALYSIS REQUESTED

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	STLC-Pb	TLLP-Pb	STLC-As	TLLP-As					TEST INSTRUCTIONS & COMMENTS
1	SB-7-N5-D0.5	BEF0119-01	6/14/2023	0709	Soil	1x9oz	none		X									
2	SB-7-N5-D2.0	02		0711					X									Hold
3	SB-7-N5-D3.0	03		0713														Hold
4	SB-7-N10-D0.5	04		0721					X									Hold
5	SB-7-N10-D2.0	05		0723														Hold
6	SB-7-N10-D3.0	06		0726														Hold
7	SB-7-W5-D0.5	07		0732					X									
8	SB-7-W10-D0.5	08		0741					X									Hold
9	SB-7-W10-D2.0	09		0743														Hold
10	SB-7-W10-D3.0	010		0745														Hold
11	SB-7-S5-D0.5	011		0752					X									
12	SB-7-S5-D0.5-Dup	12		0754					X									
13	SB-7-S10-D0.5	13		0808					X									Hold
14	SB-7-S5-D2.0	14		0756					X									Hold
15	SB-7-S5-D3.0	15		0759														Hold

TOTAL NUMBER OF CONTAINERS: 15

BILLING INFORMATION / SPECIAL INSTRUCTIONS

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: G. Salazar	Signature:	Signature:
Printed Name: Edward Dabis	Printed Name:	Printed Name:
Date: 6/14/2023 Time: 1215	Date: Time:	Date: Time:

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: AETL 3.
Signature:	Signature:	Signature: [signature]
Printed Name:	Printed Name:	Printed Name: Coret a Girey 005 en
Date: Time:	Date: Time:	Date: 6/14/23 Time: 12:15

TURN AROUND TIME
NORMAL ☐ SAME DAY RUSH ☐ NEXT DAY RUSH
2 DAYS RUSH ☐ 3 DAYS RUSH ☐ 4 DAYS RUSH

DATA DELIVERABLE REQUIRED
☐ HARD COPY
☐ E-COPY
☐ GEOTRACKER (GLOBAL ID) _____
☐ OTHER (PLEASE SPECIFY) _____

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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CHAIN OF CUSTODY RECORD

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut St. Pasadena, CA 91124
PHONE / EMAIL: (310) 809-5793
PROJECT NAME: LAUSD Canoga
PROJECT #:
SITE NAME AND ADDRESS: Canoga Park Highschool 6850 CA-27, Canoga Park, CA 91303

AETL JOB No. BEF0119

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1	SB-7-S10-D2.0	BEF0119-16	6/14/2023	0810	Soil	1 x 9oz	none
2	SB-7-S10-D3.0	17		0813			
3	SB-28-E10-D3.0	18		0850			
4	SB-28-E10-D0.5	19		0846			
5	SB-28-E10-D2.0	20		0848			
6	SB-28-W10-D3.0	21		0902			
7	SB-28-W10-D2.0	22		0900			
8	SB-28-W10-D0.5	23		0857			
9	SB-34-N10-D0.5	24		0919			
10	SB-34-N10-D0.5-DUP	25		0921			
11	SB-34-N10-D2.0	26		0923			
12	SB-34-N10-D3.0	27		0925			
13	SB-34-S10-D0.5	28		0933			
14	SB-34-S10-D2.0	29		0936			
15	SB-34-S10-D3.0	30	↓	0938	↓	↓	↓

ANALYSIS REQUESTED

	Lead (6010B)	Arsenic (6020)	STLC-Pb	TCLP-Pb	STLC-As	TCLP-As					TEST INSTRUCTIONS & COMMENTS
1											Hold
2											Hold
3											Hold
4	X		X	X							
5	X										Hold
6											Hold
7											Hold
8	X										
9		X			X	X					
10		X			X	X					
11		X									Hold
12											Hold
13		X			X	X					
14		X									Hold
15											Hold

TOTAL NUMBER OF CONTAINERS: 15

BILLING INFORMATION / SPECIAL INSTRUCTIONS

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: E. Salas	Signature:	Signature:
Printed Name: Edward Salas	Printed Name:	Printed Name:
Date: 6/14/23 Time: 1215	Date: Time:	Date: Time:
RECEIVED BY: 1.	**RECEIVED BY:** 2.	**RECEIVED BY LABORATORY:** 3.
Signature:	Signature:	Signature: Greta Greyson
Printed Name:	Printed Name:	Printed Name:
Date: Time:	Date: Time:	Date: 6/14/23 Time: 1715

TURN AROUND TIME
☑ NORMAL ☐ SAME DAY RUSH ☐ NEXT DAY RUSH
☐ 2 DAYS RUSH ☐ 3 DAYS RUSH ☐ 4 DAYS RUSH

DATA DELIVERABLE REQUIRED
☐ HARD COPY
☐ E-COPY
☐ GEOTRACKER (GLOBAL ID) _____
☐ OTHER (PLEASE SPECIFY) _____

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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COOLER RECEIPT FORM

Client Name: Parsons

Project Name: LAUSD Canoga Project No.:

AETL Job Number: BEF0119

Date Received: 06/14/2023 Received by: Greta G

Carrier: ☐ AETL Courier ☑ Client ☐ GSL ☐ FedEx ☐ UPS
☐Others:

Samples were received in: ☑ Cooler (1) ☐ Other (Specify):

Sample Container Temperature: 5.8 °C IR Gun S/N: 51941911MV

Type of sample containers: ☐ VOA, ☐ Glass bottles, ☑Wide mouth jars, ☐HDPE bottles, ☐ Metal sleeves, ☐ Acetate sleeves, ☐ 5035 Kit: ☐ AETL or ☐ Client, ☐ Tedlar Bags, Summa Canister: ☐ 6L, ☐ 3L, ☐ 1L, Others (Specify): _____

How are samples preserved: ☐ None, ☑ Ice, ☐ Blue Ice, ☐ Dry Ice
☑ None, ☐ HNO_3, ☐ NaOH, ☐ ZnOAc, ☐ HCl, ☐ $Na_2S_2O_3$, ☐ MeOH, ☐ $NaHSO_4$
☐ Other (Specify):

	Yes	No	N/A	Note or Comment
1. Are the COCs Correct?	✔			
2. Are Sample labels legible & indelible ink?	✔			
3. Do samples match the COC?	✔			
4. Are the required analyses clear?	✔			
5. Is there enough samples for required analysis?	✔			
6. Does cooler or samples have custody seal(s)?			✔	
7. Are sample containers in good condition?	✔			
8. Are samples preserved?	✔			
9. Are samples preserved properly for the intended analysis?	✔			
10. Are the VOAs free of headspace? See footnote.			✔	
11. Are the jars free of headspace?			✔	

* = see note below. N/A = Not Applicable

PLEASE NOTE ALL SAMPLES WILL BE DISPOSED OF 30 DAYS AFTER RECEIVING DATE. IF AETL IS INFORMED OTHERWISE, THERE WILL BE A STORAGE CHARGE PER SAMPLE PER MONTH FOR ANY SAMPLE HELD BEYOND 30 DAYS.

◯ Example maximum headspace bubble size; acceptance criteria not to exceed 5-6 mm in diameter.

For headspace bubbles exceeding 6 mm in diameter, sample receiving will tag the VOA and notify the Project Manager. The Project Manager will contact client for Analyze or Resample instructions.

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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEF0119 [none] Justin King LAUSD Canoga	Site: Reported:	Canoga Park High School 6850 CA-27 Canoga Park, CA 91303 07/07/2023 11:36

Case Narrative

The following "Sample Received" Section summarizes the samples received and associated analyses requested as specified on the enclosed chain of custody.

Results as reported by the laboratory apply only to 1) the items tested, 2) as the samples are received, and 3) the accuracy of information provided. Information supplied by the customer that may affect validity of results and may be contained in this report include Project Name/Number, Site Location, Sample Locations, Sampling Dates/Times, Sample ID, Sample Preservation, Sample Matrix, Sample Properties, Field Blanks, Field Duplicates, Field Spikes, and Site Historical Data.

Accreditation applies only to the test methods listed on each scope of accreditation held by the laboratory; certifications held by the laboratory may not apply to results supplied in this report.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

No analytical non-conformances were encountered.

Qualifiers are noted in the report.

The sample was subcontracted to Asset Laboratories for EPA 6020, STLC, and TCLP. Please see attached report for results.

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

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Parsons	AETL Job Number:	BEF0119	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LAUSD Canoga	Reported:	07/07/2023 11:36	

Samples Received

AETL received the following samples on 06/14/2023 with the following specifications

Client ID SB-7-N5-D2.0 — **Sample Date** 06/14/2023 7:11

Lab ID	Matrix	Quantity of Containers
BEF0119-02	Soil	2

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Client ID SB-7-N10-D0.5 — **Sample Date** 06/14/2023 7:21

Lab ID	Matrix	Quantity of Containers
BEF0119-04	Soil	2

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Client ID SB-7-W10-D0.5 — **Sample Date** 06/14/2023 7:41

Lab ID	Matrix	Quantity of Containers
BEF0119-08	Soil	2

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Client ID SB-7-S10-D0.5 — **Sample Date** 06/14/2023 8:08

Lab ID	Matrix	Quantity of Containers
BEF0119-13	Soil	2

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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Parsons	AETL Job Number:	BEF0119	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LAUSD Canoga	Reported:	07/07/2023 11:36	

Samples Received

(Continued)

AETL received the following samples on 06/14/2023 with the following specifications

Client ID: SB-7-S5-D2.0 **Sample Date:** 06/14/2023 7:56

Lab ID: BEF0119-14 **Matrix:** Soil **Quantity of Containers:** 2

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Client ID: SB-28-E10-D0.5 **Sample Date:** 06/14/2023 8:46

Lab ID: BEF0119-19 **Matrix:** Soil **Quantity of Containers:** 2

Method	Analyte	Units	TAT
EPA 6010B-1311 TCLP	TCLP Lead by ICP	mg/L	5
EPA 6010B-STLC	STLC Lead by ICP	mg/L	5

Client ID: SB-28-E10-D2.0 **Sample Date:** 06/14/2023 8:48

Lab ID: BEF0119-20 **Matrix:** Soil **Quantity of Containers:** 1

Method	Analyte	Units	TAT
EPA 6010B	Lead, total by ICP	mg/kg	5

Client ID: SB-34-N10-D0.5 **Sample Date:** 06/14/2023 9:19

Lab ID: BEF0119-24 **Matrix:** Soil **Quantity of Containers:** 3

Method	Analyte	Units	TAT
EPA 6010B-1311 TCLP	TCLP Arsenic by ICP	mg/L	5
EPA 6010B-STLC	STLC Arsenic by ICP	mg/L	5

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Parsons	AETL Job Number:	BEF0119	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LAUSD Canoga	Reported:	07/07/2023 11:36	

Samples Received

(Continued)

AETL received the following samples on 06/14/2023 with the following specifications

Client ID: SB-34-N10-D0.5-DUP — **Sample Date:** 06/14/2023 9:21

Lab ID	Matrix	Quantity of Containers
BEF0119-25	Soil	3

Method	Analyte	Units	TAT
EPA 6010B-1311 TCLP	TCLP Arsenic by ICP	mg/L	5
EPA 6010B-STLC	STLC Arsenic by ICP	mg/L	5

Client ID: SB-34-N10-D2.0 — **Sample Date:** 06/14/2023 9:23

Lab ID	Matrix	Quantity of Containers
BEF0119-26	Soil	2

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Client ID: SB-34-S10-D0.5 — **Sample Date:** 06/14/2023 9:33

Lab ID	Matrix	Quantity of Containers
BEF0119-28	Soil	3

Method	Analyte	Units	TAT
EPA 6010B-1311 TCLP	TCLP Arsenic by ICP	mg/L	5
EPA 6010B-STLC	STLC Arsenic by ICP	mg/L	5

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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEF0119 [none] Justin King LAUSD Canoga	Site: Reported:	Canoga Park High School 6850 CA-27 Canoga Park, CA 91303 07/07/2023 11:36	

Samples Received

(Continued)

AETL received the following samples on 06/14/2023 with the following specifications

Client ID			Sample Date
SB-34-S10-D2.0			06/14/2023 9:36
Lab ID		**Matrix**	**Quantity of Containers**
BEF0119-29		Soil	2

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Total Number of Samples received: 12

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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEF0119 [none] Justin King LAUSD Canoga	Site: Reported:	Canoga Park High School 6850 CA-27 Canoga Park, CA 91303 07/07/2023 11:36	

Positive Hits Summary

Lab ID	Client ID				Sampled
BEF0119-20	SB-28-E10-D2.0				06/14/2023 08:48
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	5.88		mg/kg	06/29/2023 14:02

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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEF0119 [none] Justin King LAUSD Canoga	Site: Reported:	Canoga Park High School 6850 CA-27 Canoga Park, CA 91303 07/07/2023 11:36	

Analytical Results

Client ID: SB-28-E10-D2.0

Lab ID: BEF0119-20 (Soil) **Sampled: 06/14/23 8:48**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Lead	**5.88**		1	0.550	5.00	mg/kg	06/28/23 08:57	06/29/23 14:02	B3F0376	LC	3050B

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Parsons	AETL Job Number:	BEF0119	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LAUSD Canoga	Reported:	07/07/2023 11:36	

Quality Control Results

Metals Total (EPA 6010B)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3F0376 - 3050B					**Prepared: 06/28/2023 08:57**						
Method Blank (B3F0376-BLK1)					**Analyzed: 06/29/2023 13:28**						
Lead	ND	0.550	5.00	mg/kg							

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Parsons	AETL Job Number:	BEF0119	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LAUSD Canoga	Reported:	07/07/2023 11:36	

Quality Control Results

Metals Total (EPA 6010B)

Analyte	Result		RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3F0376 - 3050B (Continued)					**Prepared: 06/28/2023 08:57**						
LCS (B3F0376-BS1)					**Analyzed: 06/29/2023 13:31**						
Lead	95.1		5.00	mg/kg	96.2		98.9	75-125			
LCSD (B3F0376-BSD1)					**Analyzed: 06/29/2023 13:34**						
Lead	98.4		5.00	mg/kg	99.0		99.4	75-125	3.42	15	
Duplicate (B3F0376-DUP1)		**Source: BEF0248-01**			**Analyzed: 06/29/2023 13:39**						
Lead	48.8	0.550	5.00	mg/kg		51.2			4.78	20	
Matrix Spike (B3F0376-MS1)		**Source: BEF0248-01**			**Analyzed: 06/29/2023 13:42**						
Lead	149	0.550	5.00	mg/kg	100	51.2	97.9	75-125			
Matrix Spike Dup (B3F0376-MSD1)		**Source: BEF0248-01**			**Analyzed: 06/29/2023 13:45**						
Lead	167	0.550	5.00	mg/kg	98.0	51.2	118	75-125	11.3	15	

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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEF0119 [none] Justin King LAUSD Canoga	Site: Reported:	Canoga Park High School 6850 CA-27 Canoga Park, CA 91303 07/07/2023 11:36

Qualifiers and Definitions

Item	Definitions
% wt	Percent Weight
%REC	Percent Recovery
°F	Degrees Fahrenheit
AETL	American Environmental Testing Laboratory, LLC
C	Carbon
CARB	California Air Resources Board
COC	Chain of Custody
Cresols	3-methylphenol/4-methylphenol coelute and cannot be chromatographically separated. Due to this coeluting isomer pair phenomenon, the laboratory uses a single cresol (4-methylphenol) as calibration standard for 3-methylphenol/4-methylphenol.
CRM	Certified Reference Material
DI	Deionized Water
DPD	Department of Planning and Development
DRO	Diesel Range Organics
Dup	Duplicate
ELAP	Environmental Laboratory Accreditation Program
EPA	Environmental Protection Agency
GC/FID	Gas Chromatography Flame Ionization Detection
GRO	Gasoline Range Organics
HC	Hydrocarbon
HEM	Hexane Extractable Material
HMU	Hazardous Material Unit
ICP/MS	Inductively Coupled Plasma Mass Spectrometry
LACSD	Los Angeles County Sanitation Districts
LCS	Laboratory Control Sample - A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes.
LCSD	Laboratory Control Sample Duplicate - A replicate of Laboratory Control Sample.
LOQ	Limit of Quantitation
MDL	Method Detection Limit - The minimum measured concentration of a substance that can be reported with 99% confidence. MDL is statistically derived number which is specific for each instrument, each method and each compound.
mg/kg	Miligrams per Kilogram
mg/L	Miligrams per Liter
ml/L/hr	Milliliter per Liter per Hour
MRO	Motor oil Range Organics
MS	Matrix Spike - A sample prepared, taken through all sample preparation and analytical steps of the procedure and analyzed as an independent test results.
MSD	Matrix Spike Duplicate - A replicate of Matrix Spike Sample.
N	No
ND	Analyte is not detected below Method Detection Limit.

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Parsons	AETL Job Number:	BEF0119	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LAUSD Canoga	Reported:	07/07/2023 11:36	

ng/m3	Nanograms per cubic meter
NIOSH	National Institute for Occupational Safety and Health
nL/L	Nanoliters per Liter
NTU	Nephelometric Turbidity Units
Ohm-cm	Ohms per centimeter
ORO	Oil Range Organics
OSHA	Occupational Safety and Health Administration
PCB	Polychlorinated Biphenyl
ppb v	Parts per billion by volume
ppmC	Parts per million Carbon
PSU	Practical Salinity Unit
RL	Reporting Limit - The lowest concentration at which an analyte can be detected in a sample and its concentration can be reported with a specified degree of confidence, accuracy and precision. For usage at AETL, RL is equivalant to LOQ.
RPD	Relative Percent Difference
SIM	Selective Ion Monitoring
SM	Standard Method
SPLP	Synthetic Precipitation Leaching Procedure
STLC	Soluble Threshold Limit Concentration
TCLP	Toxicity Characteristic Leaching Procedure
TPH	Total Petroleum Hydrocarbons
TTLC	Total Threshold Limit Concentrations
ug/kg	Micrograms per Kilogram
ug/L	Micrograms per Liter
ug/m3	Micrograms per cubic meter
WET	Waste Extraction Test
Y	Yes
ZHE	Zero Headspace Extraction

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July 06, 2023

Hailley Coleman
American Environmental Testing Laboratory, Inc.
2834 N. Naomi Street
Burbank, CA 91504

TEL: (818) 845-8200
FAX:

Workorder No.: N057442

RE: BEF0119.01

Attention: Hailley Coleman

Enclosed are the results for sample(s) received on June 28, 2023 by ASSET Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562) 219-7435 if I can be of further assistance to your company.

Sincerely,

for

Ferdinand Paul Lugtu
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and ASSET Laboratories - California.

SAMPLE RECEIVING/GENERAL COMMENTS:

All sample containers were received intact with proper chain of custody documentation.

Information on sample receipt conditions including discrepancies can be found in attached Sample Receipt Checklist Form.

Cooler temperature and sample preservation were verified upon receipt of samples if applicable.

Samples were analyzed within method holding time.

Analytical Comments for EPA 6010B_STLC:

Dilution was necessary due to matrix.

Matrix Spike (MS) is outside recovery criteria possibly due to matrix interference. The associated Laboratory Control Sample (LCS) recovery was acceptable.

Analytical Comments for EPA 6020:

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery and RPD criteria possibly due to matrix interference. The associated Laboratory Control Sample (LCS) recovery was acceptable.

CLIENT: American Environmental Testing Laborator
Project: BEF0119.01
Lab Order: N057442
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N057442-001A	BEF0119-02	Soil	6/14/2023 7:11:00 AM	6/28/2023	7/6/2023
N057442-002A	BEF0119-04	Soil	6/14/2023 7:21:00 AM	6/28/2023	7/6/2023
N057442-003A	BEF0119-08	Soil	6/14/2023 7:41:00 AM	6/28/2023	7/6/2023
N057442-004A	BEF0119-13	Soil	6/14/2023 8:08:00 AM	6/28/2023	7/6/2023
N057442-005A	BEF0119-14	Soil	6/14/2023 7:56:00 AM	6/28/2023	7/6/2023
N057442-006A	BEF0119-19	Soil	6/14/2023 8:46:00 AM	6/28/2023	7/6/2023
N057442-007A	BEF0119-24	Soil	6/14/2023 9:19:00 AM	6/28/2023	7/6/2023
N057442-008A	BEF0119-25	Soil	6/14/2023 9:21:00 AM	6/28/2023	7/6/2023
N057442-009A	BEF0119-26	Soil	6/14/2023 9:23:00 AM	6/28/2023	7/6/2023
N057442-010A	BEF0119-28	Soil	6/14/2023 9:33:00 AM	6/28/2023	7/6/2023
N057442-011A	BEF0119-29	Soil	6/14/2023 9:36:00 AM	6/28/2023	7/6/2023

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0119-02
Lab Order:	N057442		
Project:	BEF0119.01	**Collection Date:**	6/14/2023 7:11:00 AM
Lab ID:	N057442-001	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230629B	QC Batch: 100535			PrepDate:	6/29/2023	Analyst: **DJ**
Arsenic	5.9	0.50		mg/Kg	1	6/29/2023 10:07 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0119-04
Lab Order:	N057442		
Project:	BEF0119.01	**Collection Date:**	6/14/2023 7:21:00 AM
Lab ID:	N057442-002	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230629B	QC Batch: 100535			PrepDate:	6/29/2023	Analyst: **DJ**
Arsenic	14	0.50		mg/Kg	1	6/29/2023 10:31 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0119-08
Lab Order:	N057442		
Project:	BEF0119.01	**Collection Date:**	6/14/2023 7:41:00 AM
Lab ID:	N057442-003	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230630B	QC Batch: 100535			PrepDate:	6/29/2023	Analyst: **DJ**
Arsenic	94	2.5		mg/Kg	5	6/30/2023 12:33 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0119-13
Lab Order:	N057442		
Project:	BEF0119.01	**Collection Date:**	6/14/2023 8:08:00 AM
Lab ID:	N057442-004	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230629B	QC Batch: 100535			PrepDate:	6/29/2023	Analyst: **DJ**
Arsenic	25	0.50		mg/Kg	1	6/29/2023 10:54 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0119-14
Lab Order:	N057442		
Project:	BEF0119.01	**Collection Date:**	6/14/2023 7:56:00 AM
Lab ID:	N057442-005	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230629B	QC Batch: 100535			PrepDate:	6/29/2023	Analyst: **DJ**
Arsenic	6.3	0.50		mg/Kg	1	6/29/2023 10:58 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0119-19
Lab Order:	N057442		
Project:	BEF0119.01	**Collection Date:**	6/14/2023 8:46:00 AM
Lab ID:	N057442-006	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS BY STLC						
EPA 3010A				**WET/ EPA 6010B**		
RunID: CA01638-ICP01_230702A	QC Batch: 100590			PrepDate:	7/2/2023	Analyst: **PL**
Lead	8.7	0.25		mg/L	5	7/2/2023 06:06 PM
ICP METALS BY TCLP EXTRACTION						
EPA 3010A				**EPA 1311/ 6010B**		
RunID: CA01638-ICP01_230703B	QC Batch: 100589			PrepDate:	7/2/2023	Analyst: **PL**
Lead	0.071	0.050		mg/L	1	7/3/2023 05:37 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0119-24
Lab Order:	N057442		
Project:	BEF0119.01	**Collection Date:**	6/14/2023 9:19:00 AM
Lab ID:	N057442-007	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS BY STLC						
EPA 3010A				**WET/ EPA 6010B**		
RunID: CA01638-ICP01_230702A	QC Batch: 100590			PrepDate:	7/2/2023	Analyst: **PL**
Arsenic	16	0.25		mg/L	5	7/2/2023 06:21 PM
ICP METALS BY TCLP EXTRACTION						
EPA 3010A				**EPA 1311/ 6010B**		
RunID: CA01638-ICP01_230703B	QC Batch: 100589			PrepDate:	7/2/2023	Analyst: **PL**
Arsenic	3.3	0.050		mg/L	1	7/3/2023 05:40 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0119-25
Lab Order:	N057442		
Project:	BEF0119.01	**Collection Date:**	6/14/2023 9:21:00 AM
Lab ID:	N057442-008	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS BY STLC						
EPA 3010A				**WET/ EPA 6010B**		
RunID: CA01638-ICP01_230702A QC Batch: 100590				PrepDate:	7/2/2023	Analyst: **PL**
Arsenic	16	0.25		mg/L	5	7/2/2023 06:24 PM
ICP METALS BY TCLP EXTRACTION						
EPA 3010A				**EPA 1311/ 6010B**		
RunID: CA01638-ICP01_230703B QC Batch: 100589				PrepDate:	7/2/2023	Analyst: **PL**
Arsenic	3.7	0.050		mg/L	1	7/3/2023 05:49 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0119-26
Lab Order:	N057442		
Project:	BEF0119.01	**Collection Date:**	6/14/2023 9:23:00 AM
Lab ID:	N057442-009	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230629B	QC Batch: 100535			PrepDate:	6/29/2023	Analyst: **DJ**
Arsenic	6.5	0.50		mg/Kg	1	6/29/2023 11:03 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0119-28
Lab Order:	N057442		
Project:	BEF0119.01	**Collection Date:**	6/14/2023 9:33:00 AM
Lab ID:	N057442-010	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS BY STLC						
EPA 3010A				**WET/ EPA 6010B**		
RunID: CA01638-ICP01_230702A QC Batch: 100590				PrepDate:	7/2/2023	Analyst: **PL**
Arsenic	18	0.25		mg/L	5	7/2/2023 06:27 PM
ICP METALS BY TCLP EXTRACTION						
EPA 3010A				**EPA 1311/ 6010B**		
RunID: CA01638-ICP01_230703B QC Batch: 100589				PrepDate:	7/2/2023	Analyst: **PL**
Arsenic	4.1	0.050		mg/L	1	7/3/2023 05:52 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0119-29
Lab Order:	N057442		
Project:	BEF0119.01	**Collection Date:**	6/14/2023 9:36:00 AM
Lab ID:	N057442-011	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230629B	QC Batch: 100535			PrepDate:	6/29/2023	Analyst: **DJ**
Arsenic	23	0.50		mg/Kg	1	6/29/2023 11:08 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: American Environmental Testing Laboratory, Inc.
Work Order: N057442
Project: BEF0119.01

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_S_PPM

Sample ID: **MB-100535**	SampType: **MBLK**	TestCode: **6020_S_PPM**	Units: **mg/Kg**	Prep Date: **6/29/2023**	RunNo: **173582**
Client ID: **PBS**	Batch ID: **100535**	TestNo: **EPA 6020**	**EPA 3050B**	Analysis Date: **6/29/2023**	SeqNo: **5267407**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.50									

Sample ID: **LCS-100535**	SampType: **LCS**	TestCode: **6020_S_PPM**	Units: **mg/Kg**	Prep Date: **6/29/2023**	RunNo: **173582**
Client ID: **LCSS**	Batch ID: **100535**	TestNo: **EPA 6020**	**EPA 3050B**	Analysis Date: **6/29/2023**	SeqNo: **5267408**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	5.077	0.50	5.000	0	102	85	115				

Sample ID: **N057442-001A-MS**	SampType: **MS**	TestCode: **6020_S_PPM**	Units: **mg/Kg**	Prep Date: **6/29/2023**	RunNo: **173582**
Client ID: **ZZZZZZ**	Batch ID: **100535**	TestNo: **EPA 6020**	**EPA 3050B**	Analysis Date: **6/29/2023**	SeqNo: **5267412**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	11.386	0.50	4.990	5.912	110	75	125				

Sample ID: **N057442-001A-MSD**	SampType: **MSD**	TestCode: **6020_S_PPM**	Units: **mg/Kg**	Prep Date: **6/29/2023**	RunNo: **173582**
Client ID: **ZZZZZZ**	Batch ID: **100535**	TestNo: **EPA 6020**	**EPA 3050B**	Analysis Date: **6/29/2023**	SeqNo: **5267413**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	15.631	0.50	4.978	5.912	195	75	125	11.39	31.4	20	SR

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: American Environmental Testing Laboratory, Inc.
Work Order: N057442
Project: BEF0119.01

ANALYTICAL QC SUMMARY REPORT

TestCode: CA_6010_ST

Sample ID: LCS-100590	SampType: LCS	TestCode: CA_6010_ST	Units: mg/L	Prep Date: 7/2/2023	RunNo: 173634
Client ID: LCSS	Batch ID: 100590	TestNo: WET/ EPA 60	EPA 3010A	Analysis Date: 7/2/2023	SeqNo: 5270151

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.475	0.050	0.5000	0	95.0	85	115				
Lead	0.475	0.050	0.5000	0	95.0	85	115				

Sample ID: MB-100590	SampType: MBLK	TestCode: CA_6010_ST	Units: mg/L	Prep Date: 7/2/2023	RunNo: 173634
Client ID: PBS	Batch ID: 100590	TestNo: WET/ EPA 60	EPA 3010A	Analysis Date: 7/2/2023	SeqNo: 5270152

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.050									
Lead	ND	0.050									

Sample ID: MB-100538 STLC	SampType: MBLK	TestCode: CA_6010_ST	Units: mg/L	Prep Date: 7/2/2023	RunNo: 173634
Client ID: PBS	Batch ID: 100590	TestNo: WET/ EPA 60	EPA 3010A	Analysis Date: 7/2/2023	SeqNo: 5270160

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.034	0.25									
Lead	ND	0.25									

Sample ID: N057442-006A-MS	SampType: MS	TestCode: CA_6010_ST	Units: mg/L	Prep Date: 7/2/2023	RunNo: 173634
Client ID: ZZZZZZ	Batch ID: 100590	TestNo: WET/ EPA 60	EPA 3010A	Analysis Date: 7/2/2023	SeqNo: 5270164

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.618	0.25	0.5000	0.1366	96.4	75	125				
Lead	9.370	0.25	0.5000	8.697	135	75	125				S

Sample ID: N057442-006A-MSD	SampType: MSD	TestCode: CA_6010_ST	Units: mg/L	Prep Date: 7/2/2023	RunNo: 173634
Client ID: ZZZZZZ	Batch ID: 100590	TestNo: WET/ EPA 60	EPA 3010A	Analysis Date: 7/2/2023	SeqNo: 5270165

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.614	0.25	0.5000	0.1366	95.6	75	125	0.6184	0.633	20	

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: American Environmental Testing Laboratory, Inc.
Work Order: N057442
Project: BEF0119.01

ANALYTICAL QC SUMMARY REPORT

TestCode: CA_6010_ST

Sample ID: **N057442-006A-MSD** SampType: **MSD** TestCode: **CA_6010_ST** Units: **mg/L** Prep Date: **7/2/2023** RunNo: **173634**
Client ID: **ZZZZZZ** Batch ID: **100590** TestNo: **WET/ EPA 60 EPA 3010A** Analysis Date: **7/2/2023** SeqNo: **5270165**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	9.243	0.25	0.5000	8.697	109	75	125	9.370	1.37	20	

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

ANALYTICAL QC SUMMARY REPORT

TestCode: CA_6010_TC

Sample ID: **LCS-100589** SampType: **LCS** TestCode: **CA_6010_TC** Units: **mg/L** Prep Date: **7/2/2023** RunNo: **173657**
Client ID: **LCSS** Batch ID: **100589** TestNo: **EPA 1311/ 60 EPA 3010A** Analysis Date: **7/3/2023** SeqNo: **5271469**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.480	0.050	0.5000	0	96.0	85	115				
Lead	0.498	0.050	0.5000	0	99.5	85	115				

Sample ID: **MB-100589** SampType: **MBLK** TestCode: **CA_6010_TC** Units: **mg/L** Prep Date: **7/2/2023** RunNo: **173657**
Client ID: **PBS** Batch ID: **100589** TestNo: **EPA 1311/ 60 EPA 3010A** Analysis Date: **7/3/2023** SeqNo: **5271470**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.050									
Lead	ND	0.050									

Sample ID: **MB-100537 TCLP** SampType: **MBLK** TestCode: **CA_6010_TC** Units: **mg/L** Prep Date: **7/2/2023** RunNo: **173657**
Client ID: **PBS** Batch ID: **100589** TestNo: **EPA 1311/ 60 EPA 3010A** Analysis Date: **7/3/2023** SeqNo: **5271471**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.005	0.050									
Lead	ND	0.050									

Sample ID: **N057421-019A-DUP** SampType: **DUP** TestCode: **CA_6010_TC** Units: **mg/L** Prep Date: **7/2/2023** RunNo: **173657**
Client ID: **ZZZZZZ** Batch ID: **100589** TestNo: **EPA 1311/ 60 EPA 3010A** Analysis Date: **7/3/2023** SeqNo: **5271482**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.007	0.050						0.006830	0	20	
Lead	0.042	0.050						0.04230	0	20	

Sample ID: **N057421-019A-MS** SampType: **MS** TestCode: **CA_6010_TC** Units: **mg/L** Prep Date: **7/2/2023** RunNo: **173657**
Client ID: **ZZZZZZ** Batch ID: **100589** TestNo: **EPA 1311/ 60 EPA 3010A** Analysis Date: **7/3/2023** SeqNo: **5271483**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.534	0.050	0.5000	0.006830	105	75	125				

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: American Environmental Testing Laboratory, Inc.
Work Order: N057442
Project: BEF0119.01

ANALYTICAL QC SUMMARY REPORT

TestCode: CA_6010_TC

Sample ID: **N057421-019A-MS** SampType: **MS** TestCode: **CA_6010_TC** Units: **mg/L** Prep Date: **7/2/2023** RunNo: **173657**
Client ID: **ZZZZZZ** Batch ID: **100589** TestNo: **EPA 1311/ 60 EPA 3010A** Analysis Date: **7/3/2023** SeqNo: **5271483**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.510	0.050	0.5000	0.04230	93.6	75	125				

Sample ID: **N057421-019A-MSD** SampType: **MSD** TestCode: **CA_6010_TC** Units: **mg/L** Prep Date: **7/2/2023** RunNo: **173657**
Client ID: **ZZZZZZ** Batch ID: **100589** TestNo: **EPA 1311/ 60 EPA 3010A** Analysis Date: **7/3/2023** SeqNo: **5271484**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.536	0.050	0.5000	0.006830	106	75	125	0.5338	0.337	20	
Lead	0.509	0.050	0.5000	0.04230	93.3	75	125	0.5102	0.249	20	

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

57442

AMERICAN ENVIRONMENTAL TESTING LABORATORY, LLC
2840 North Naomi Street, Burbank, CA 91504 • ELAP# 1541 • LACSD# 10181
Telephone (888) 288-AETL • (818) 845-8200 • www.aetlab.com

SUBCONTRACT CHAIN of CUSTODY

Sending Laboratory:

AETL
AETL, LLC. 2840 N. Naomi Street
Burbank, CA 91504
Phone: 818-845-8200
Project Manager: Hailley Coleman
Email: hcoleman@aetlab.com

Subcontracted Laboratory:

ASSET Laboratories
11110 Artesia Blvd.
Cerritos, CA 90703
Phone: (702)307-2659
Fax: (562)219-7435

Work Order: BEF0119.01 PO#SUB-35554

Analysis	Due	Expires	Comments
~~**Sample ID: BEF0119-01**~~ ***Soil*** ***Sampled: 06/14/2023 07:09***			5-DAY TAT
~~6020-As (Arsenic, total by ICP/MS)~~	06/21/2023	12/11/2023 07:09	
Containers Supplied:			
Sample ID: BEF0119-02 ***Soil*** ***Sampled: 06/14/2023 07:11***			
6020-As (Arsenic, total by ICP/MS)	06/21/2023	12/11/2023 07:11	
Containers Supplied:			N057442-001
Sample ID: BEF0119-04 ***Soil*** ***Sampled: 06/14/2023 07:21***			
6020-As (Arsenic, total by ICP/MS)	06/21/2023	12/11/2023 07:21	
Containers Supplied:			-002
~~**Sample ID: BEF0119-07**~~ ***Soil*** ***Sampled: 06/14/2023 07:32***			
~~6020-As (Arsenic, total by ICP/MS)~~	06/21/2023	12/11/2023 07:32	
Containers Supplied:			
Sample ID: BEF0119-08 ***Soil*** ***Sampled: 06/14/2023 07:41***			
6020-As (Arsenic, total by ICP/MS)	06/21/2023	12/11/2023 07:41	
			-003

IR: 4.4°C #PA1

Approved by: HAILLEY COLEMAN 6/27/23
AETL Project Manager — Date

Released By AETL Sample Control	Date	Received By Courier	Date
	6/28/23		14:19
Released By Courier	Date	Received By Subcontract Laboratory	Date
Marbel Ramos 6/28/23 1700	7:19pm	Marbel Ramos	6/29/23

Page 1 of 4

Mena de C Camp 6/29/23 8:44am
LV 1-702 IR#3645 8674

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SUBCONTRACT CHAIN of CUSTODY
(Continued)

Work Order: BEF0119 (Continued)

Analysis	Due	Expires	Comments
Containers Supplied:			
~~**Sample ID: BEF0119-11**~~ ***Soil Sampled: 06/14/2023 07:52***			
~~6020-As (Arsenic, total by ICP/MS)~~	06/21/2023	12/11/2023 07:52	
Containers Supplied:			
~~**Sample ID: BEF0119-12**~~ ***Soil Sampled: 06/14/2023 07:54***			
~~6020-As (Arsenic, total by ICP/MS)~~	06/21/2023	12/11/2023 07:54	
Containers Supplied:			
Sample ID: BEF0119-13 ***Soil Sampled: 06/14/2023 08:08***			
6020-As (Arsenic, total by ICP/MS)	06/21/2023	12/11/2023 08:08	N057442-004
Containers Supplied:			
Sample ID: BEF0119-14 ***Soil Sampled: 06/14/2023 07:56***			
6020-As (Arsenic, total by ICP/MS)	06/21/2023	12/11/2023 07:56	-005
Containers Supplied:			
Sample ID: BEF0119-19 ***Soil Sampled: 06/14/2023 08:46***			
STLC-Extraction (STLC-Extraction)	06/21/2023	06/28/2023 08:46	-006
STLC-6010B-Pb (STLC Lead by ICP)	06/21/2023	09/22/2023 08:46	
TCLP-Extraction (TCLP Extraction)	06/21/2023	09/22/2023 08:46	
TCLP-6010B-Pb (TCLP Lead by ICP)	06/21/2023	12/11/2023 08:46	
Containers Supplied:			
Sample ID: BEF0119-24 ***Soil Sampled: 06/14/2023 09:19***			

CA: 4.4C IR#1

Approved by: _____ _____
AETL Project Manager Date

Released By AETL Sample Control _____ Date _____ Received By Courier _____ Date _____

Released By Courier _____ Date 6/28/23 Received By Subcontract Laboratory _____ Date 6/29/23 1419

Manbel Nanibel Ramos 6/28/23 1700 2:19pm Mellea de la Compa COG 6/29/23 8:44am
LV 1.7°C IR#3 6LS 8674

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SUBCONTRACT CHAIN of CUSTODY
(Continued)

Work Order: BEF0119 (Continued)

Analysis	Due	Expires	Comments
Sample ID: BEF0119-24 ***Soil*** ***Sampled: 06/14/2023 09:19***			
TCLP-6010B-As (TCLP Arsenic by ICP)	06/21/2023	06/24/2023 09:19	
STLC-Extraction (STLC-Extraction)	06/21/2023	06/28/2023 09:19	N057442-007
TCLP-Extraction (TCLP Extraction)	06/21/2023	09/22/2023 09:19	
STLC-6010B-As (STLC Arsenic by ICP)	06/21/2023	12/11/2023 09:19	
~~6020-As (Arsenic, total by ICP/MS)~~	06/21/2023	12/11/2023 09:19	
Containers Supplied:			
Sample ID: BEF0119-25 ***Soil*** ***Sampled: 06/14/2023 09:21***			
TCLP-6010B-As (TCLP Arsenic by ICP)	06/21/2023	06/24/2023 09:21	
STLC-Extraction (STLC-Extraction)	06/21/2023	06/28/2023 09:21	-008
TCLP-Extraction (TCLP Extraction)	06/21/2023	09/22/2023 09:21	
~~6020-As (Arsenic, total by ICP/MS)~~	06/21/2023	12/11/2023 09:21	
STLC-6010B-As (STLC Arsenic by ICP)	06/21/2023	12/11/2023 09:21	
Containers Supplied:			
Sample ID: BEF0119-26 ***Soil*** ***Sampled: 06/14/2023 09:23***			
6020-As (Arsenic, total by ICP/MS)	06/21/2023	12/11/2023 09:23	
Containers Supplied:			-009
Sample ID: BEF0119-28 ***Soil*** ***Sampled: 06/14/2023 09:33***			
TCLP-6010B-As (TCLP Arsenic by ICP)	06/21/2023	06/24/2023 09:33	
STLC-Extraction (STLC-Extraction)	06/21/2023	06/28/2023 09:33	
TCLP-Extraction (TCLP Extraction)	06/21/2023	09/22/2023 09:33	-010
~~6020-As (Arsenic, total by ICP/MS)~~	06/21/2023	12/11/2023 09:33	
STLC-6010B-As (STLC Arsenic by ICP)	06/21/2023	12/11/2023 09:33	
Containers Supplied:			
Sample ID: BEF0119-29 ***Soil*** ***Sampled: 06/14/2023 09:36***			

Approved by: _____ _____ CA-4.4 c IR#1
AETL Project Manager Date

Released By AETL Sample Control	Date	Received By Courier	Date
	6/28/23	Marbel Ramos	6/29/23 1419
Released By Courier	Date	Received By Subcontract Laboratory	Date
Marbel Ramos 6/28/23 2:19pm 1700		Maria Rea Cayco Ong 6/29/23 LV 1.7°C IR#3 4L58671	

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SUBCONTRACT CHAIN of CUSTODY
(Continued)

Work Order: BEF0119 (Continued)

Analysis	Due	Expires	Comments
Sample ID: BEF0119-29 ***Soil Sampled: 06/14/2023 09:36***			
6020-As (Arsenic, total by ICP/MS)	06/21/2023	12/11/2023 09:36	N057442-011
Containers Supplied:			

CH: 4.4°C FR#1

Approved by:
AETL Project Manager — Date

Released By AETL Sample Control — Date
Received By Courier — Date

Released By Courier — Date 6/28/23 ~~2:20pm~~ 2:19pm H.B.
Received By Subcontract Laboratory — Date 6/28/23 1419

Manibel Ramos 6/28/23 1700
Maria de la Campa 6/29/23 8:44am
2U 1.7°C IR#3 6LS 8674

ASSET Laboratories

Please review the checklist below. Any NO signifies non-compliance. Any non-compliance will be noted and must be understood as having an impact on the quality of the data. All tests will be performed as requested regardless of any compliance issues.

If you have any questions or further instruction, please contact our Project Coordinator at (702) 307-2659.

Cooler Received/Opened On:	6/28/2023	Workorder:	N057442
Rep sample Temp (Deg C):	4.4	IR Gun ID:	1
Temp Blank:	☐ Yes ☑ No		
Carrier name:	Walk-In		
Last 4 digits of Tracking No.:	NA	Packing Material Used:	None
Cooling process:	☑ Ice ☐ Ice Pack ☐ Dry Ice ☐ Other ☐ None		

Sample Receipt Checklist

1. Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
2. Custody seals intact, signed, dated on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
3. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
4. Chain of custody present?	Yes ☑	No ☐	
5. Sampler's name present in COC?	Yes ☐	No ☑	
6. Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
7. Chain of custody agrees with sample labels?	Yes ☑	No ☐	
8. Samples in proper container/bottle?	Yes ☑	No ☐	
9. Sample containers intact?	Yes ☑	No ☐	
10. Sufficient sample volume for indicated test?	Yes ☑	No ☐	
11. All samples received within holding time?	Yes ☑	No ☐	
12. Temperature of rep sample or Temp Blank within acceptable limit?	Yes ☑	No ☐	NA ☐
13. Water - VOA vials have zero headspace?	Yes ☐	No ☐	NA ☑
14. Water - pH acceptable upon receipt? Example: pH > 12 for (CN,S); pH<2 for Metals	Yes ☐	No ☐	NA ☑
15. Did the bottle labels indicate correct preservatives used?	Yes ☐	No ☐	NA ☑
16. Were there Non-Conformance issues at login?	Yes ☑	No ☐	NA ☐
Was Client notified?	Yes ☐	No ☐	NA ☑

Comments: Received at Las Vegas Lab on 06/29/23 at 1.7 C, IR#3, GSO#8674

Checklist Completed By: FOR MR 6/29/2023

Reviewed By: [redacted]

ASSET Laboratories

WORK ORDER Summary

30-Jun-23

WorkOrder: N057442

Client ID: AETL01

Project: BEF0119.01 **QC Level:** RTNE **Date Received:** 6/28/2023 2:19 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N057442-001A	BEF0119-02	6/14/2023 7:11:00 AM	7/6/2023	Soil	EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			7/6/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057442-002A	BEF0119-04	6/14/2023 7:21:00 AM	7/6/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			7/6/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057442-003A	BEF0119-08	6/14/2023 7:41:00 AM	7/6/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			7/6/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057442-004A	BEF0119-13	6/14/2023 8:08:00 AM	7/6/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			7/6/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057442-005A	BEF0119-14	6/14/2023 7:56:00 AM	7/6/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			7/6/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057442-006A	BEF0119-19	6/14/2023 8:46:00 AM	7/6/2023		EPA 1311	TCLP Sample Prep Metals	☐	☐	☐	WS-CA
			7/6/2023		EPA 3010A	AQPrep for Total Metals: ICP for STLC Extracts	☐	☐	☐	WS-CA
			7/6/2023		EPA 3010A	AQPrep for Total Metals	☐	☐	☐	WS-CA
			7/6/2023		WET/ EPA 6010B	ICP METALS by STLC	☐	☐	☐	WS-CA
			7/6/2023		EPA 1311/ 6010B	ICP METALS by TCLP Extraction	☐	☐	☐	WS-CA
			7/6/2023		WET	STLC Sample Prep Metals	☐	☐	☐	WS-CA
N057442-007A	BEF0119-24	6/14/2023 9:19:00 AM	7/6/2023		EPA 1311	TCLP Sample Prep Metals	☐	☐	☐	WS-CA
			7/6/2023		EPA 3010A	AQPrep for Total Metals: ICP for STLC Extracts	☐	☐	☐	WS-CA
			7/6/2023		EPA 3010A	AQPrep for Total Metals	☐	☐	☐	WS-CA
			7/6/2023		WET/ EPA 6010B	ICP METALS by STLC	☐	☐	☐	WS-CA
			7/6/2023		EPA 1311/ 6010B	ICP METALS by TCLP Extraction	☐	☐	☐	WS-CA

ASSET Laboratories

WORK ORDER Summary

30-Jun-23

WorkOrder: N057442

Client ID: AETL01

Project: BEF0119.01 **QC Level:** RTNE **Date Received:** 6/28/2023 2:19 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N057442-007A	BEF0119-24	6/14/2023 9:19:00 AM	7/6/2023	Soil	WET	STLC Sample Prep Metals	☐	☐	☐	WS-CA
N057442-008A	BEF0119-25	6/14/2023 9:21:00 AM	7/6/2023		EPA 1311	TCLP Sample Prep Metals	☐	☐	☐	WS-CA
			7/6/2023		EPA 3010A	AQPrep for Total Metals: ICP for STLC Extracts	☐	☐	☐	WS-CA
			7/6/2023		EPA 3010A	AQPrep for Total Metals	☐	☐	☐	WS-CA
			7/6/2023		WET/ EPA 6010B	ICP METALS by STLC	☐	☐	☐	WS-CA
			7/6/2023		EPA 1311/ 6010B	ICP METALS by TCLP Extraction	☐	☐	☐	WS-CA
			7/6/2023		WET	STLC Sample Prep Metals	☐	☐	☐	WS-CA
N057442-009A	BEF0119-26	6/14/2023 9:23:00 AM	7/6/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			7/6/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057442-010A	BEF0119-28	6/14/2023 9:33:00 AM	7/6/2023		EPA 1311	TCLP Sample Prep Metals	☐	☐	☐	WS-CA
			7/6/2023		EPA 3010A	AQPrep for Total Metals: ICP for STLC Extracts	☐	☐	☐	WS-CA
			7/6/2023		EPA 3010A	AQPrep for Total Metals	☐	☐	☐	WS-CA
			7/6/2023		WET/ EPA 6010B	ICP METALS by STLC	☐	☐	☐	WS-CA
			7/6/2023		EPA 1311/ 6010B	ICP METALS by TCLP Extraction	☐	☐	☐	WS-CA
			7/6/2023		WET	STLC Sample Prep Metals	☐	☐	☐	WS-CA
N057442-011A	BEF0119-29	6/14/2023 9:36:00 AM	7/6/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			7/6/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057442-012A	FOLDER	7/6/2023	7/6/2023		Folder	Folder	☐	☐	☐	LAB
			7/6/2023		Folder	Folder	☐	☐	☐	LAB

GLS.

800-322-5555
www.gls-us.com

Ship From
ASSET LABORATORIES
THAD MALIT
11110 ARTESIA BLVD. SUITE B
CERRITOS, CA 90703

Ship To
ASSET LABORATORIES
SAMPLE CONTROL-LV
3151 W. POST RD.,
LAS VEGAS, NV 89118

COD: $0.00
Weight: 0 lb(s)
Reference:

Delivery Instructions:
HOLD FOR PICKUP
Signature Type: STANDARD

Tracking #: 559678674

PDS

1.7°C
8:44am

LAS VEGAS

D00006O

89000329

LVS NV891-068

Print Date: 6/28/2023 4:47 PM

LABEL INSTRUCTIONS:

Do not copy or reprint this label for additional shipments - each package must have a unique barcode.
Step 1: Use the "Print Label" button on this page to print the shipping label on a laser or inkjet printer.
Step 2: Fold this page in half.
Step 3: Securely attach this label to your package and do not cover the barcode.

TERMS AND CONDITIONS:

By giving us your shipment to deliver, you agree to all of the General Logistics Systems US, Inc. (GLS) service terms & conditions including, but not limited to; limits of liability, declared value conditions, and claim procedures which are available on our website at www.gls-us.com.

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July 17, 2023

AETL Job No: BEF0119.02
Received Date: 06/14/2023
Project Number: [none]

Parsons
100 West Walnut Street
Pasadena, CA 91124
Telephone: (626) 440-6200

Attention: Justin King

Project Name: LAUSD Canoga

Site: Canoga Park High School
6850 CA-27
Canoga Park, CA 91303

Enclosed please find the results of analyses for samples which were analyzed as specified on the attached chain of custody. If you have any questions concerning this report, please do not hesitate to call.

Checked By: Hailley Coleman
Hailley Coleman
Project Manager

Approved By: Joe Sevrean
Joe Sevrean
Laboratory Director

Table of Contents

Client Project Name: Canoga Park High School Project Number: [none]
Work Order Number: BEF0119

1 Cover Letter 1
2 Sample Condition on Receipt 3
3 Chain of Custody 4
4 Cooler Receipt Forms 6
5 Case Narrative 7
6 Samples Received 8
7 Positive Hits Summary 10
8 Analytical Results 11
9 Qualifiers and Definitions 12
10 Sub Contracted Analysis 14

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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEF0119 [none] Justin King LAUSD Canoga	Site: Reported:	Canoga Park High School 6850 CA-27 Canoga Park, CA 91303 07/17/2023 18:37

Sample Condition on Receipt

Cooler ID: Default Cooler **Temperature: 5.8 °C**

Are the COCs Correct	Y		
Labels Legible	Y	Containers In Good Condition	Y
COC/Labels Agree	Y	Samples Preserved Properly	Y
Sufficient Sample Volume	Y	Sufficient Holding Time for all Tests	Y
Sample Labels intact	Y	Received on Ice	Y

Cooler ID: New Cooler **Temperature: 5.7 °C**

Are the COCs Correct	Y		
Labels Legible	Y	Containers In Good Condition	Y
COC/Labels Agree	Y	Samples Preserved Properly	Y
Sufficient Sample Volume	Y	Sufficient Holding Time for all Tests	Y
Sample Labels intact	Y	Received on Ice	Y

Cooler ID: New Cooler [1] **Temperature: 5.8 °C**

Are the COCs Correct	Y		
Labels Legible	Y	Containers In Good Condition	Y
COC/Labels Agree	Y	Samples Preserved Properly	Y
Sufficient Sample Volume	Y	Sufficient Holding Time for all Tests	Y
Sample Labels intact	Y	Received on Ice	Y

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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CHAIN OF CUSTODY RECORD

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut Street Pasadena, CA 91124
PHONE EMAIL: (310) 809-5793
PROJECT NAME: LAUSD Canoga
PROJECT #:
SITE NAME AND ADDRESS: Canoga Park Highschool 6850 CA-29, Canoga Park, CA 91303

AETL JOB No. BEF0119

ANALYSIS REQUESTED

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	STLC-Pb	TLLP-Pb	STLC-As	TLLP-As					TEST INSTRUCTIONS & COMMENTS
1	SB-7-N5-D0.5	BEF0119-01	6/14/2023	0709	Soil	1x9oz	none		X									
2	SB-7-N5-D2.0	02		0711					X									Hold
3	SB-7-N5-D3.0	03		0713														Hold
4	SB-7-N10-D0.5	04		0721					X									Hold
5	SB-7-N10-D2.0	05		0723					X									Hold
6	SB-7-N10-D3.0	06		0726														Hold
7	SB-7-W5-D0.5	07		0732					X									
8	SB-7-W10-D0.5	08		0741					X			X						Hold
9	SB-7-W10-D2.0	09		0743					X									Hold
10	SB-7-W10-D3.0	010		0745														Hold
11	SB-7-S5-D0.5	011		0752					X									
12	SB-7-S5-D0.5-Dup	12		0754					X									
13	SB-7-S10-D0.5	13		0808					X									Hold
14	SB-7-S5-D2.0	14		0756					X									Hold
15	SB-7-S5-D3.0	15		0759														Hold

TOTAL NUMBER OF CONTAINERS: 15

BILLING INFORMATION / SPECIAL INSTRUCTIONS

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: G. Salazar	Signature:	Signature:
Printed Name: Edward Dabbs	Printed Name:	Printed Name:
Date: 6/14/2023 Time: 1215	Date: Time:	Date: Time:

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: AETL 3.
Signature:	Signature:	Signature: [signature]
Printed Name:	Printed Name:	Printed Name: Greta Direxyoosien
Date: Time:	Date: Time:	Date: 6/14/23 Time: 12:15

TURN AROUND TIME
- [x] NORMAL
- [ ] SAME DAY RUSH
- [ ] NEXT DAY RUSH
- [ ] 2 DAYS RUSH
- [ ] 3 DAYS RUSH
- [ ] 4 DAYS RUSH

DATA DELIVERABLE REQUIRED
- [ ] HARD COPY
- [ ] E-COPY
- [ ] GEOTRACKER (GLOBAL ID) _____
- [ ] OTHER (PLEASE SPECIFY) _____

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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CHAIN OF CUSTODY RECORD

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut St. Pasadena, CA 91124
PHONE / EMAIL: (310) 809-5793
PROJECT NAME: LAUSD Canoga
PROJECT #:
SITE NAME AND ADDRESS: Canoga Park Highschool 6850 CA PO#27, Canoga Park, CA 91303

AETL JOB No. BEF0119

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	STLC-Pb	TCLP-Pb	STLC-As	TCLP-As	TEST INSTRUCTIONS & COMMENTS
1	SB-7-S10-D2.0	BEF0119-16	6/14/2023	0810	Soil	1 x 90z	none		X					Hold
2	SB-7-S10-D3.0	17	"	0813	"	"	"							Hold
3	SB-28-E10-D3.0	18	"	0850	"	"	"							Hold
4	SB-28-E10-D0.5	19	"	0846	"	"	"	X		X	X			
5	SB-28-E10-D2.0	20	"	0848	"	"	"	X						Hold
6	SB-28-W10-D3.0	21	"	0902	"	"	"							Hold
7	SB-28-W10-D2.0	22	"	0900	"	"	"							Hold
8	SB-28-W10-D0.5	23	"	0857	"	"	"	X						
9	SB-34-N10-D0.5	24	"	0919	"	"	"		X			X	X	
10	SB-34-N10-D0.5-DUP	25	"	0921	"	"	"		X			X	X	
11	SB-34-N10-D2.0	24	"	0923	"	"	"		X					Hold
12	SB-34-N10-D3.0	27	"	0925	"	"	"							Hold
13	SB-34-S10-D0.5	28	"	0933	"	"	"		X			X	X	
14	SB-34-S10-D2.0	29	"	0936	"	"	"		X					Hold
15	SB-34-S10-D3.0	30	"	0938	"	"	"		X					Hold

TOTAL NUMBER OF CONTAINERS: 15

BILLING INFORMATION / SPECIAL INSTRUCTIONS

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: E. Salas	Signature:	Signature:
Printed Name: Edward Dabas	Printed Name:	Printed Name:
Date: 6/14/23 Time: 1215	Date: Time:	Date: Time:
RECEIVED BY: 1.	**RECEIVED BY:** 2.	**RECEIVED BY LABORATORY:** 3.
Signature:	Signature:	Signature:
Printed Name:	Printed Name:	Printed Name:
Date: Time:	Date: Time:	Date: 6/14/23 Time: 1715

TURN AROUND TIME
- [x] NORMAL
- [ ] SAME DAY RUSH
- [ ] NEXT DAY RUSH
- [ ] 2 DAYS RUSH
- [ ] 3 DAYS RUSH
- [ ] 4 DAYS RUSH

DATA DELIVERABLE REQUIRED
- [ ] HARD COPY
- [ ] E-COPY
- [ ] GEOTRACKER (GLOBAL ID) _____
- [ ] OTHER (PLEASE SPECIFY) _____

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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COOLER RECEIPT FORM

Client Name: Parsons

Project Name: LAUSD Canoga Project No.:

AETL Job Number: BEF0119

Date Received: 06/14/2023 Received by: Greta G

Carrier: ☐ AETL Courier ☑ Client ☐ GSL ☐ FedEx ☐ UPS
☐Others:

Samples were received in: ☑ Cooler (__1_____) ☐ Other (Specify):

Sample Container Temperature: __5.8__ °C IR Gun S/N: 51941911MV

Type of sample containers: ☐ VOA, ☐ Glass bottles, ☑Wide mouth jars, ☐HDPE bottles, ☐ Metal sleeves, ☐ Acetate sleeves, ☐ 5035 Kit: ☐ AETL or ☐ Client, ☐ Tedlar Bags, Summa Canister: ☐ 6L, ☐ 3L, ☐ 1L, Others (Specify): _____

How are samples preserved: ☐ None, ☑ Ice, ☐ Blue Ice, ☐ Dry Ice
☑ None, ☐ HNO_3, ☐ NaOH, ☐ ZnOAc, ☐ HCl, ☐ $Na_2S_2O_3$, ☐ MeOH, ☐ $NaHSO_4$
☐ Other (Specify):

	Yes	No	N/A	Note or Comment
1. Are the COCs Correct?	✔			
2. Are Sample labels legible & indelible ink?	✔			
3. Do samples match the COC?	✔			
4. Are the required analyses clear?	✔			
5. Is there enough samples for required analysis?	✔			
6. Does cooler or samples have custody seal(s)?			✔	
7. Are sample containers in good condition?	✔			
8. Are samples preserved?	✔			
9. Are samples preserved properly for the intended analysis?	✔			
10. Are the VOAs free of headspace? See footnote.			✔	
11. Are the jars free of headspace?			✔	

* = see note below. N/A = Not Applicable

PLEASE NOTE ALL SAMPLES WILL BE DISPOSED OF 30 DAYS AFTER RECEIVING DATE. IF AETL IS INFORMED OTHERWISE, THERE WILL BE A STORAGE CHARGE PER SAMPLE PER MONTH FOR ANY SAMPLE HELD BEYOND 30 DAYS.

◯ Example maximum headspace bubble size; acceptance criteria not to exceed 5-6 mm in diameter.

For headspace bubbles exceeding 6 mm in diameter, sample receiving will tag the VOA and notify the Project Manager. The Project Manager will contact client for Analyze or Resample instructions.

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Parsons	AETL Job Number:	BEF0119	Site:	Canoga Park High School
100 West Walnut Street	Project Number:	[none]		6850 CA-27
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303
	Project Name:	LAUSD Canoga	Reported:	07/17/2023 18:37

Case Narrative

The following "Sample Received" Section summarizes the samples received and associated analyses requested as specified on the enclosed chain of custody.

Results as reported by the laboratory apply only to 1) the items tested, 2) as the samples are received, and 3) the accuracy of information provided. Information supplied by the customer that may affect validity of results and may be contained in this report include Project Name/Number, Site Location, Sample Locations, Sampling Dates/Times, Sample ID, Sample Preservation, Sample Matrix, Sample Properties, Field Blanks, Field Duplicates, Field Spikes, and Site Historical Data.

Accreditation applies only to the test methods listed on each scope of accreditation held by the laboratory; certifications held by the laboratory may not apply to results supplied in this report.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

No analytical non-conformances were encountered.

Qualifiers are noted in the report.

The sample was subcontracted to Asset Laboratories for EPA 6020, STLC, and TCLP. Please see attached report for results.

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEF0119 [none] Justin King LAUSD Canoga	Site: Reported:	Canoga Park High School 6850 CA-27 Canoga Park, CA 91303 07/17/2023 18:37

Samples Received

AETL received the following samples on 06/14/2023 with the following specifications

Client ID	Sample Date
SB-7-N10-D2.0	06/14/2023 7:23

Lab ID	Matrix	Quantity of Containers
BEF0119-05	Soil	2

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Client ID	Sample Date
SB-7-W10-D0.5	06/14/2023 7:41

Lab ID	Matrix	Quantity of Containers
BEF0119-08	Soil	3

Method	Analyte	Units	TAT
EPA 6010B-STLC	STLC Arsenic by ICP	mg/L	5

Client ID	Sample Date
SB-7-W10-D2.0	06/14/2023 7:43

Lab ID	Matrix	Quantity of Containers
BEF0119-09	Soil	2

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Client ID	Sample Date
SB-7-S10-D2.0	06/14/2023 8:10

Lab ID	Matrix	Quantity of Containers
BEF0119-16	Soil	2

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEF0119 [none] Justin King LAUSD Canoga	Site: Reported:	Canoga Park High School 6850 CA-27 Canoga Park, CA 91303 07/17/2023 18:37	

Samples Received

(Continued)

AETL received the following samples on 06/14/2023 with the following specifications

Client ID			Sample Date
SB-34-S10-D3.0			06/14/2023 9:38
Lab ID		**Matrix**	**Quantity of Containers**
BEF0119-30		Soil	2

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Total Number of Samples received: 5

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEF0119 [none] Justin King LAUSD Canoga	Site: Reported:	Canoga Park High School 6850 CA-27 Canoga Park, CA 91303 07/17/2023 18:37

Positive Hits Summary

Lab ID	Client ID					Sampled
Method	Analyte	Result	Qualifier	Unit		Analyzed

See Subcontract Report.

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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AMERICAN ENVIRONMENTAL TESTING LABORATORY, LLC
2840 North Naomi Street, Burbank, CA 91504 • ELAP# 1541 • LACSD# 10181
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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEF0119 [none] Justin King LAUSD Canoga	Site: Reported:	Canoga Park High School 6850 CA-27 Canoga Park, CA 91303 07/17/2023 18:37

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Parsons	AETL Job Number:	BEF0119	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LAUSD Canoga	Reported:	07/17/2023 18:37	

Qualifiers and Definitions

Item	Definitions
% wt	Percent Weight
%REC	Percent Recovery
°F	Degrees Fahrenheit
AETL	American Environmental Testing Laboratory, LLC
C	Carbon
CARB	California Air Resources Board
COC	Chain of Custody
Cresols	3-methylphenol/4-methylphenol coelute and cannot be chromatographically separated. Due to this coeluting isomer pair phenomenon, the laboratory uses a single cresol (4-methylphenol) as calibration standard for 3-methylphenol/4-methylphenol.
CRM	Certified Reference Material
DI	Deionized Water
DPD	Department of Planning and Development
DRO	Diesel Range Organics
Dup	Duplicate
ELAP	Environmental Laboratory Accreditation Program
EPA	Environmental Protection Agency
GC/FID	Gas Chromatography Flame Ionization Detection
GRO	Gasoline Range Organics
HC	Hydrocarbon
HEM	Hexane Extractable Material
HMU	Hazardous Material Unit
ICP/MS	Inductively Coupled Plasma Mass Spectrometry
LACSD	Los Angeles County Sanitation Districts
LCS	Laboratory Control Sample - A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes.
LCSD	Laboratory Control Sample Duplicate - A replicate of Laboratory Control Sample.
LOQ	Limit of Quantitation
MDL	Method Detection Limit - The minimum measured concentration of a substance that can be reported with 99% confidence. MDL is statistically derived number which is specific for each instrument, each method and each compound.
mg/kg	Miligrams per Kilogram
mg/L	Miligrams per Liter
ml/L/hr	Milliliter per Liter per Hour
MRO	Motor oil Range Organics
MS	Matrix Spike - A sample prepared, taken through all sample preparation and analytical steps of the procedure and analyzed as an independent test results.
MSD	Matrix Spike Duplicate - A replicate of Matrix Spike Sample.
N	No
ND	Analyte is not detected below Method Detection Limit.

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Parsons	AETL Job Number:	BEF0119	Site:	Canoga Park High School
100 West Walnut Street	Project Number:	[none]		6850 CA-27
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303
	Project Name:	LAUSD Canoga	Reported:	07/17/2023 18:37

ng/m3	Nanograms per cubic meter
NIOSH	National Institute for Occupational Safety and Health
nL/L	Nanoliters per Liter
NTU	Nephelometric Turbidity Units
Ohm-cm	Ohms per centimeter
ORO	Oil Range Organics
OSHA	Occupational Safety and Health Administration
PCB	Polychlorinated Biphenyl
ppb v	Parts per billion by volume
ppmC	Parts per million Carbon
PSU	Practical Salinity Unit
RL	Reporting Limit - The lowest concentration at which an analyte can be detected in a sample and its concentration can be reported with a specified degree of confidence, accuracy and precision. For usage at AETL, RL is equivalant to LOQ.
RPD	Relative Percent Difference
SIM	Selective Ion Monitoring
SM	Standard Method
SPLP	Synthetic Precipitation Leaching Procedure
STLC	Soluble Threshold Limit Concentration
TCLP	Toxicity Characteristic Leaching Procedure
TPH	Total Petroleum Hydrocarbons
TTLC	Total Threshold Limit Concentrations
ug/kg	Micrograms per Kilogram
ug/L	Micrograms per Liter
ug/m3	Micrograms per cubic meter
WET	Waste Extraction Test
Y	Yes
ZHE	Zero Headspace Extraction

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July 17, 2023

Hailley Coleman
American Environmental Testing Laboratory, Inc.
2834 N. Naomi Street
Burbank, CA 91504

TEL: (818) 845-8200
FAX:

Workorder No.: N057610

RE: BEF0119.02

Attention: Hailley Coleman

Enclosed are the results for sample(s) received on July 10, 2023 by ASSET Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562) 219-7435 if I can be of further assistance to your company.

Sincerely,

for

Ferdinand Paul Lugtu
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and ASSET Laboratories - California.

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

All sample containers were received intact with proper chain of custody documentation.

Information on sample receipt conditions including discrepancies can be found in attached Sample Receipt Checklist Form.

Cooler temperature and sample preservation were verified upon receipt of samples if applicable.

Samples were analyzed within method holding time.

CLIENT: American Environmental Testing Laborator
Project: BEF0119.02
Lab Order: N057610
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N057610-001A	BEF0119-05	Soil	6/14/2023 7:23:00 AM	7/10/2023	7/17/2023
N057610-002A	BEF0119-08	Soil	6/14/2023 7:41:00 AM	7/10/2023	7/17/2023
N057610-003A	BEF0119-09	Soil	6/14/2023 7:43:00 AM	7/10/2023	7/17/2023
N057610-004A	BEF0119-16	Soil	6/14/2023 8:10:00 AM	7/10/2023	7/17/2023
N057610-005A	BEF0119-30	Soil	6/14/2023 9:38:00 AM	7/10/2023	7/17/2023

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0119-05
Lab Order:	N057610		
Project:	BEF0119.02	**Collection Date:**	6/14/2023 7:23:00 AM
Lab ID:	N057610-001	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP7_230711B	QC Batch: 100702			PrepDate:	7/11/2023	Analyst: **DJ**
Arsenic	6.4	0.50		mg/Kg	1	7/11/2023 04:04 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0119-08
Lab Order:	N057610		
Project:	BEF0119.02	**Collection Date:**	6/14/2023 7:41:00 AM
Lab ID:	N057610-002	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS BY STLC						
EPA 3010A				**WET/ EPA 6010B**		
RunID: CA01638-ICP01_230713A	QC Batch: 100771			PrepDate:	7/13/2023	Analyst: **PL**
Arsenic	6.9	0.25		mg/L	5	7/13/2023 05:22 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0119-09
Lab Order:	N057610		
Project:	BEF0119.02	**Collection Date:**	6/14/2023 7:43:00 AM
Lab ID:	N057610-003	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP7_230711B	QC Batch: 100702			PrepDate:	7/11/2023	Analyst: **DJ**
Arsenic	8.9	0.50		mg/Kg	1	7/11/2023 04:27 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0119-16
Lab Order:	N057610		
Project:	BEF0119.02	**Collection Date:**	6/14/2023 8:10:00 AM
Lab ID:	N057610-004	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP7_230711B	QC Batch: 100702			PrepDate:	7/11/2023	Analyst: **DJ**
Arsenic	9.9	0.50		mg/Kg	1	7/11/2023 04:32 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0119-30
Lab Order:	N057610		
Project:	BEF0119.02	**Collection Date:**	6/14/2023 9:38:00 AM
Lab ID:	N057610-005	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP7_230711B	QC Batch: 100702			PrepDate:	7/11/2023	Analyst: **DJ**
Arsenic	8.2	0.50		mg/Kg	1	7/11/2023 04:51 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: American Environmental Testing Laboratory, Inc.
Work Order: N057610
Project: BEF0119.02

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_S_PPM

Sample ID: **MB-100702**	SampType: **MBLK**	TestCode: **6020_S_PPM**	Units: **mg/Kg**	Prep Date: **7/11/2023**	RunNo: **173781**
Client ID: **PBS**	Batch ID: **100702**	TestNo: **EPA 6020**	**EPA 3050B**	Analysis Date: **7/11/2023**	SeqNo: **5276472**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.50									

Sample ID: **LCS-100702**	SampType: **LCS**	TestCode: **6020_S_PPM**	Units: **mg/Kg**	Prep Date: **7/11/2023**	RunNo: **173781**
Client ID: **LCSS**	Batch ID: **100702**	TestNo: **EPA 6020**	**EPA 3050B**	Analysis Date: **7/11/2023**	SeqNo: **5276473**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	4.909	0.50	5.000	0	98.2	85	115				

Sample ID: **N057610-001A-MS**	SampType: **MS**	TestCode: **6020_S_PPM**	Units: **mg/Kg**	Prep Date: **7/11/2023**	RunNo: **173781**
Client ID: **ZZZZZZ**	Batch ID: **100702**	TestNo: **EPA 6020**	**EPA 3050B**	Analysis Date: **7/11/2023**	SeqNo: **5276477**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	11.233	0.50	4.998	6.443	95.9	75	125				

Sample ID: **N057610-001A-MSD**	SampType: **MSD**	TestCode: **6020_S_PPM**	Units: **mg/Kg**	Prep Date: **7/11/2023**	RunNo: **173781**
Client ID: **ZZZZZZ**	Batch ID: **100702**	TestNo: **EPA 6020**	**EPA 3050B**	Analysis Date: **7/11/2023**	SeqNo: **5276478**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	11.648	0.50	4.993	6.443	104	75	125	11.23	3.63	20	

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: American Environmental Testing Laboratory, Inc.
Work Order: N057610
Project: BEF0119.02

ANALYTICAL QC SUMMARY REPORT

TestCode: CA_6010_ST

Sample ID: **LCS-100771**	SampType: **LCS**	TestCode: **CA_6010_ST**	Units: **mg/L**	Prep Date: **7/13/2023**	RunNo: **173847**
Client ID: **LCSS**	Batch ID: **100771**	TestNo: **WET/ EPA 60**	**EPA 3010A**	Analysis Date: **7/13/2023**	SeqNo: **5278387**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.502	0.050	0.5000	0	100	85	115				

Sample ID: **MB-100771**	SampType: **MBLK**	TestCode: **CA_6010_ST**	Units: **mg/L**	Prep Date: **7/13/2023**	RunNo: **173847**
Client ID: **PBS**	Batch ID: **100771**	TestNo: **WET/ EPA 60**	**EPA 3010A**	Analysis Date: **7/13/2023**	SeqNo: **5278388**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.050									

Sample ID: **MB-100688 STLC**	SampType: **MBLK**	TestCode: **CA_6010_ST**	Units: **mg/L**	Prep Date: **7/13/2023**	RunNo: **173847**
Client ID: **PBS**	Batch ID: **100771**	TestNo: **WET/ EPA 60**	**EPA 3010A**	Analysis Date: **7/13/2023**	SeqNo: **5278389**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.032	0.25									

Sample ID: **N057603-001B-MS**	SampType: **MS**	TestCode: **CA_6010_ST**	Units: **mg/L**	Prep Date: **7/13/2023**	RunNo: **173847**
Client ID: **ZZZZZZ**	Batch ID: **100771**	TestNo: **WET/ EPA 60**	**EPA 3010A**	Analysis Date: **7/13/2023**	SeqNo: **5278393**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.637	0.25	0.5000	0.09010	109	75	125				

Sample ID: **N057603-001B-MSD**	SampType: **MSD**	TestCode: **CA_6010_ST**	Units: **mg/L**	Prep Date: **7/13/2023**	RunNo: **173847**
Client ID: **ZZZZZZ**	Batch ID: **100771**	TestNo: **WET/ EPA 60**	**EPA 3010A**	Analysis Date: **7/13/2023**	SeqNo: **5278394**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.627	0.25	0.5000	0.09010	107	75	125	0.6368	1.50	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

57610

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SUBCONTRACT CHAIN of CUSTODY

Sending Laboratory:

AETL
AETL, LLC. 2840 N. Naomi Street
Burbank, CA 91504
Phone: 818-845-8200

Project Manager: Hailley Coleman
Email: hcoleman@aetlab.com

Subcontracted Laboratory:

ASSET Laboratories
11110 Artesia Blvd.
Cerritos, CA 90703
Phone: (702)307-2659
Fax: (562)219-7435

Work Order: BEF0119.02 PO # SUB-35592

Analysis	Due	Expires	Comments
~~Sample ID: BEF0119-01~~ *Soil* *Sampled: 06/14/2023 07:09*			5-DAY TAT
6020-As (Arsenic, total by ICP/MS)	06/21/2023	12/11/2023 07:09	
Containers Supplied:			
~~Sample ID: BEF0119-02~~ *Soil* *Sampled: 06/14/2023 07:11*			
6020-As (Arsenic, total by ICP/MS)	06/21/2023	12/11/2023 07:11	
Containers Supplied:			
~~Sample ID: BEF0119-04~~ *Soil* *Sampled: 06/14/2023 07:21*			
6020-As (Arsenic, total by ICP/MS)	06/21/2023	12/11/2023 07:21	
Containers Supplied:			
Sample ID: BEF0119-05 *Soil* *Sampled: 06/14/2023 07:23*			N057610-001
6020-As (Arsenic, total by ICP/MS)	06/21/2023	12/11/2023 07:23	
Containers Supplied:			
~~Sample ID: BEF0119-07~~ *Soil* *Sampled: 06/14/2023 07:32*			
6020-As (Arsenic, total by ICP/MS)	06/21/2023	12/11/2023 07:32	

Approved by: HAILLEY COLEMAN 7/10/23 CA: 3.2°C IR#1
AETL Project Manager Date

Released By AETL Sample Control Date Received By Courier Date

Hray B 7/10/23 Manuel R. 7/10/23 1310
Released By Courier Date Received By Subcontract Laboratory Date

1:10pm
KIM VAN ANTONIO 7/10/23 1630 Maria de la Campos 7/11/23 8:20 am
LV 4.7°C IR#3 SW 0072

AMERICAN ENVIRONMENTAL TESTING LABORATORY, LLC
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SUBCONTRACT CHAIN of CUSTODY
(Continued)

Work Order: BEF0119 (Continued)

Analysis	Due	Expires	Comments
Containers Supplied:			
Sample ID: BEF0119-08 ***Soil*** ***Sampled: 06/14/2023 07:41***			N057610-002
STLC-Extraction (STLC-Extraction)	06/21/2023	06/28/2023 07:41	CAN ALSO USE JAR PREVIOUSLY
~~6020-As (Arsenic, total by ICP/MS)~~	06/21/2023	12/11/2023 07:41	
STLC-6010B-As (STLC Arsenic by ICP)	06/21/2023	12/11/2023 07:41	SENT W/ BEF0119.01
Containers Supplied:			
Sample ID: BEF0119-09 ***Soil*** ***Sampled: 06/14/2023 07:43***			N057610-003
6020-As (Arsenic, total by ICP/MS)	06/21/2023	12/11/2023 07:43	
Containers Supplied:			
~~**Sample ID: BEF0119-11**~~ ***Soil*** ***Sampled: 06/14/2023 07:52***			
6020-As (Arsenic, total by ICP/MS)	06/21/2023	12/11/2023 07:52	
Containers Supplied:			
~~**Sample ID: BEF0119-12**~~ ***Soil*** ***Sampled: 06/14/2023 07:54***			
6020-As (Arsenic, total by ICP/MS)	06/21/2023	12/11/2023 07:54	
Containers Supplied:			
~~**Sample ID: BEF0119-13**~~ ***Soil*** ***Sampled: 06/14/2023 08:08***			
6020-As (Arsenic, total by ICP/MS)	06/21/2023	12/11/2023 08:08	
Containers Supplied:			
~~**Sample ID: BEF0119-14**~~ ***Soil*** ***Sampled: 06/14/2023 07:56***			
6020-As (Arsenic, total by ICP/MS)	06/21/2023	12/11/2023 07:56	

Approved by: _____ Date _____ CA: 3.2°C FP#1
AETL Project Manager

Released By AETL Sample Control	Date	Received By Courier	Date
Hrag B.	7/10/23	Maribel R.	7/10/23 1310
Released By Courier	Date	Received By Subcontract Laboratory	Date
FIM SAN ANTONIO	7/10/23 1630	Maribel Rapu Ops	7/11/23 8:20 am

1:10pm

LV 4.7°C 1813 SW0072

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SUBCONTRACT CHAIN of CUSTODY
(Continued)

Work Order: BEF0119 (Continued)

Analysis	Due	Expires	Comments

Containers Supplied:

Sample ID: BEF0119-16 ***Soil Sampled: 06/14/2023 08:10*** N057610-004

6020-As (Arsenic, total by ICP/MS)	06/21/2023	12/11/2023 08:10	

Containers Supplied:

~~**Sample ID: BEF0119-19**~~ ***Soil Sampled: 06/14/2023 08:46***

STLC-Extraction (STLC-Extraction)	06/21/2023	06/28/2023 08:46	
STLC-6010B-Pb (STLC Lead by ICP)	06/21/2023	09/22/2023 08:46	
TCLP-Extraction (TCLP Extraction)	06/21/2023	09/22/2023 08:46	
TCLP-6010B-Pb (TCLP Lead by ICP)	06/21/2023	12/11/2023 08:46	

Containers Supplied:

~~**Sample ID: BEF0119-24**~~ ***Soil Sampled: 06/14/2023 09:19***

TCLP-6010B-As (TCLP Arsenic by ICP)	06/21/2023	06/24/2023 09:19	
STLC-Extraction (STLC-Extraction)	06/21/2023	06/28/2023 09:19	
TCLP-Extraction (TCLP Extraction)	06/21/2023	09/22/2023 09:19	
STLC-6010B-As (STLC Arsenic by ICP)	06/21/2023	12/11/2023 09:19	
6020-As (Arsenic, total by ICP/MS)	06/21/2023	12/11/2023 09:19	

Containers Supplied:

~~**Sample ID: BEF0119-25**~~ ***Soil Sampled: 06/14/2023 09:21***

TCLP-6010B-As (TCLP Arsenic by ICP)	06/21/2023	06/24/2023 09:21	
STLC-Extraction (STLC-Extraction)	06/21/2023	06/28/2023 09:21	
TCLP-Extraction (TCLP Extraction)	06/21/2023	09/22/2023 09:21	
STLC-6010B-As (STLC Arsenic by ICP)	06/21/2023	12/11/2023 09:21	
6020-As (Arsenic, total by ICP/MS)	06/21/2023	12/11/2023 09:21	

Containers Supplied:

LA: 3.2°C IR#1

Approved by:
AETL Project Manager _____ Date _____

Released By AETL Sample Control _____ Date _____ Received By Courier _____ Date _____

Hrug B. 7/10/23 Marbel Maribel Ramos 7/10/23 1310

Released By Courier _____ Date _____ Received By Subcontract Laboratory _____ Date _____

1:10pm 7/11/23 8:2

KIM JAN ANTONIO 7/10/23 1630 LV 4.7°C IR#3 SW0072

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SUBCONTRACT CHAIN of CUSTODY
(Continued)

Work Order: BEF0119 (Continued)

Analysis	Due	Expires	Comments
~~Sample ID: BEF0119-26~~ *Soil* *Sampled: 06/14/2023 09:23*			
6020-As (Arsenic, total by ICP/MS)	06/21/2023	12/11/2023 09:23	
Containers Supplied:			
~~Sample ID: BEF0119-28~~ *Soil* *Sampled: 06/14/2023 09:33*			
TCLP-6010B-As (TCLP Arsenic by ICP)	06/21/2023	06/24/2023 09:33	
STLC-Extraction (STLC-Extraction)	06/21/2023	06/28/2023 09:33	
TCLP-Extraction (TCLP Extraction)	06/21/2023	09/22/2023 09:33	
6020-As (Arsenic, total by ICP/MS)	06/21/2023	12/11/2023 09:33	
STLC-6010B-As (STLC Arsenic by ICP)	06/21/2023	12/11/2023 09:33	
Containers Supplied:			
~~Sample ID: BEF0119-29~~ *Soil* *Sampled: 06/14/2023 09:36*			
6020-As (Arsenic, total by ICP/MS)	06/21/2023	12/11/2023 09:36	
Containers Supplied:			
Sample ID: BEF0119-30 *Soil* *Sampled: 06/14/2023 09:38*			N057610-005
6020-As (Arsenic, total by ICP/MS)	06/21/2023	12/11/2023 09:38	
Containers Supplied:			

CA: 3.2°C IR#1

Approved by:
AETL Project Manager — Date

Released By AETL Sample Control — Date
Hray B. — 7/10/23 1:10pm

Received By Courier — Date
Ramos — 7/10/23 1310

Released By Courier — Date
KIM VAN ANTONIO — 7/10/23 1630

Received By Subcontract Laboratory — Date
Maria de la Campa Cruz — 7/11/23 8:20 am
LV 4.7°C IR#3 SW0072

ASSET Laboratories

Please review the checklist below. Any NO signifies non-compliance. Any non-compliance will be noted and must be understood as having an impact on the quality of the data. All tests will be performed as requested regardless of any compliance issues.

If you have any questions or further instruction, please contact our Project Coordinator at (702) 307-2659.

Cooler Received/Opened On:	7/10/2023	Workorder:	N057610
Rep sample Temp (Deg C):	3.2	IR Gun ID:	1
Temp Blank:	☐ Yes ☑ No		
Carrier name:	Walk-In		
Last 4 digits of Tracking No.:	NA	Packing Material Used:	None
Cooling process:	☑ Ice ☐ Ice Pack ☐ Dry Ice ☐ Other ☐ None		

Sample Receipt Checklist

1. Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
2. Custody seals intact, signed, dated on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
3. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
4. Chain of custody present?	Yes ☑	No ☐	
5. Sampler's name present in COC?	Yes ☐	No ☑	
6. Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
7. Chain of custody agrees with sample labels?	Yes ☑	No ☐	
8. Samples in proper container/bottle?	Yes ☑	No ☐	
9. Sample containers intact?	Yes ☑	No ☐	
10. Sufficient sample volume for indicated test?	Yes ☑	No ☐	
11. All samples received within holding time?	Yes ☑	No ☐	
12. Temperature of rep sample or Temp Blank within acceptable limit?	Yes ☑	No ☐	NA ☐
13. Water - VOA vials have zero headspace?	Yes ☐	No ☐	NA ☑
14. Water - pH acceptable upon receipt? Example: pH > 12 for (CN,S); pH<2 for Metals	Yes ☐	No ☐	NA ☑
15. Did the bottle labels indicate correct preservatives used?	Yes ☐	No ☐	NA ☑
16. Were there Non-Conformance issues at login?	Yes ☑	No ☐	NA ☐
Was Client notified?	Yes ☐	No ☐	NA ☑

Comments: Received at Las Vegas Lab on 7/11/2023 at 4.7°C IR#3, via SW#0072

Checklist Completed By: FOR MR 7/11/2023

Reviewed By: for: MBC

ASSET Laboratories

WORK ORDER Summary

11-Jul-23

WorkOrder: N057610

Client ID: AETL01

Project: BEF0119.02 **QC Level:** RTNE **Date Received:** 7/10/2023 1:10 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N057610-001A	BEF0119-05	6/14/2023 7:23:00 AM	7/17/2023	Soil	EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			7/17/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057610-002A	BEF0119-08	6/14/2023 7:41:00 AM	7/17/2023		EPA 3010A	AQPrep for Total Metals: ICP for STLC Extracts	☐	☐	☐	WS-CA
			7/17/2023		WET/ EPA 6010B	ICP METALS by STLC	☐	☐	☐	WS-CA
			7/17/2023		WET	STLC Sample Prep Metals	☐	☐	☐	WS-CA
N057610-003A	BEF0119-09	6/14/2023 7:43:00 AM	7/17/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			7/17/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057610-004A	BEF0119-16	6/14/2023 8:10:00 AM	7/17/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			7/17/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057610-005A	BEF0119-30	6/14/2023 9:38:00 AM	7/17/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			7/17/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057610-006A	FOLDER	7/17/2023	7/17/2023		Folder	Folder	☐	☐	☐	LAB
			7/17/2023		Folder	Folder	☐	☐	☐	LAB

526 | LAX | 90560072

526 - 90560072

Shipper's Name and Address	Shipper's Account Number
ADVANCED TECHNOLOGY LABORATORIES 3151 W POST RD LAS VEGAS, NV 89118 US +1 (702) 307-2659	74299 - 1

Not Negotiable / Issued by

526 90560072

Southwest Cargo

swacargo.com (800) 533-1222

Copies 1, 2 and 3 of this Air Waybill are originals and have the same validity.

Consignee's Name and Address	Consignee's Account Number
ADVANCED TECHNOLOGY LABORATORIES 3151 W POST RD LAS VEGAS, NV 89118 US +1 (702) 307-2659	74299 - 1

It is agreed that the goods described herein are accepted in apparent good order and condition (except as noted) for carriage **subject to Southwest Airlines' Contract of Carriage which is www.swacargo.com and any location where air waybills are available. Shipper's attention is drawn to the terms of the contract which includes, among other things; (1) Limits on Carriers' liability for loss, damage, or delay of goods, including fragile or perishable goods; (2) Claim restrictions, including time within which shippers or consignees must file a claim or bring an action against the carrier for its acts or omissions or those of its agents; (3) Right of the carrier to change the terms of the contract; (4) Rules about refusal to carry; and (5) Rights of the carrier and limitations, concerning delay or failure to perform service, including schedule changes, rerouting, substitution of an alternate carrier or aircraft, or means of carriage including road unless specific contrary instructions are given hereon by shipper, and shipper agrees the shipment may be carried via intermediate stopping places the carrier deems appropriate.** Shipper may increase liability limits by declaring a higher value for carriage and paying a supplemental charge if required.

Issuing Carrier's Agent Name and City

Accounting Information

Billed on 07/10/2023 19:10 PDT SWA ACCOUNT 74299

Agent's IATA Code	Account No.

Airport of Departure (Addr. of First Carrier) and Requested Routing

LOS ANGELES

Service Level - N

To	By First Carrier	To	By	To	By	Currency	CHGS Code	WT.VAL PPD	WT.VAL COLL	Other PPD	Other COLL	Declared Value for Carriage	Declared Value for Customs
LAS	SOUTHWEST AIRLINES					USD	PP	X		X		100.00	

Airport of Destination	For Carrier Use Only: Flight Date	For Carrier Use Only: Flight Date	Amount of Insurance	INSURANCE - If carrier offers insurance, and such insurance is requested in accordance with the conditions thereof, indicate amount to be insured in figures in box marked "Amount of Insurance".
LAS	WN3261 / 10JUL			

HANDLING INFORMATION -

SCI

No. of Pieces RCP	Gross Weight	kg/lb	Rate Class	Commodity Item No.	Chargeable Weight	Rate / Charge	Total	Nature and Quantity of Goods (Inc. Dimensions or Volume)
1	48	L	B	0000	48	As Agreed	*.*****	LAB EQUIPMENT, ENVIORNMENTAL TESTING DIMS IN INCHES: 1 = 24 X 13 X 12
1	48						*******	

Prepaid	Weight Charge	Collect	Other Charges and Description
			MYC 0.00 SCC 0.00
	Valuation Charge		
	Tax		
	Total Other Charges Due Agent		Shipper certifies that the particulars on the face hereof are correct and that **insofar as any part of the consignment contains dangerous goods, such part is properly described by name and is in proper condition for carriage by air according to the applicable Dangerous Goods Regulations.** I consent that this shipment shall be subject to search by the Carrier.
	Total Other Charges Due Carrier		CHARLTON PAGDILAO
			Signature of Shipper or his Agent
Total Prepaid		Total Collect	
Currency Conversion Rates	CC Charges in Dest.Currency		07/10/2023 19:10 PDT LAX E164073
			Executed on (date and time) At (place) Signature of Issuing Carrier or its Agent
For Carriers Use only at Destination	Charges at Destination	Total Collect Charges	

526 - 90560072

ORIGINAL 2 (FOR CONSIGNEE)

AMERICAN ENVIRONMENTAL TESTING LABORATORY, LLC
2840 North Naomi Street, Burbank, CA 91504 • ELAP# 1541 • LACSD# 10181
Telephone (888) 288-AETL • (818) 845-8200 • www.aetlab.com
A KYZER LABS COMPANY

July 25, 2023

AETL Job No: BEF0119.03
Received Date: 06/14/2023
Project Number: [none]

Parsons
100 West Walnut Street
Pasadena, CA 91124
Telephone: (626) 440-6200

Attention: Justin King

Project Name: LAUSD Canoga

Site: Canoga Park High School
6850 CA-27
Canoga Park, CA 91303

Enclosed please find the results of analyses for samples which were analyzed as specified on the attached chain of custody. If you have any questions concerning this report, please do not hesitate to call.

Checked By: Hailley Coleman
Hailley Coleman
Project Manager

Approved By: Joe Sevrean
Joe Sevrean
Laboratory Director

Table of Contents

Client Project Name: Canoga Park High School Project Number: [none]
Work Order Number: BEF0119

1	Cover Letter	1
2	Sample Condition on Receipt	3
3	Chain of Custody	4
4	Cooler Receipt Forms	6
5	Case Narrative	7
6	Samples Received	8
7	Positive Hits Summary	9
8	Analytical Results	10
9	Qualifiers and Definitions	11
10	Sub Contracted Analysis	13

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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEF0119 [none] Justin King LAUSD Canoga	Site: Reported:	Canoga Park High School 6850 CA-27 Canoga Park, CA 91303 07/25/2023 17:11

Sample Condition on Receipt

Cooler ID: Default Cooler **Temperature: 5.8 °C**

Are the COCs Correct	Y		
Labels Legible	Y	Containers In Good Condition	Y
COC/Labels Agree	Y	Samples Preserved Properly	Y
Sufficient Sample Volume	Y	Sufficient Holding Time for all Tests	Y
Sample Labels intact	Y	Received on Ice	Y

Cooler ID: New Cooler **Temperature: 5.7 °C**

Are the COCs Correct	Y		
Labels Legible	Y	Containers In Good Condition	Y
COC/Labels Agree	Y	Samples Preserved Properly	Y
Sufficient Sample Volume	Y	Sufficient Holding Time for all Tests	Y
Sample Labels intact	Y	Received on Ice	Y

Cooler ID: New Cooler [1] **Temperature: 5.8 °C**

Are the COCs Correct	Y		
Labels Legible	Y	Containers In Good Condition	Y
COC/Labels Agree	Y	Samples Preserved Properly	Y
Sufficient Sample Volume	Y	Sufficient Holding Time for all Tests	Y
Sample Labels intact	Y	Received on Ice	Y

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

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CHAIN OF CUSTODY RECORD

COMPANY: Parsons
PROJECT MANAGER: Justin Ling
COMPANY ADDRESS: 100 W. Walnut Street Pasadena, CA 91124
PHONE / EMAIL: (310) 809-5793
PROJECT NAME: LAUSD Canoga
PROJECT #:
SITE NAME AND ADDRESS: Canoga Park Highschool 6850 CA-27, Canoga Park, CA 91303
PO#:
AETL JOB No. BEF0119
Page 1 of 2

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	STLC-Pb	TCLP-Pb	STLC-As	TCLP-As	TEST INSTRUCTIONS & COMMENTS
1	SB-7-N5-D0.5	BEF0119-01	6/14/2023	0709	Soil	1x402	none		X					
2	SB-7-N5-D2.0	02		0711					X					Hold
3	SB-7-N5-D3.0	03		0713										Hold
4	SB-7-N10-D0.5	04		0721					X					Hold
5	SB-7-N10-D2.0	05		0723					X					Hold
6	SB-7-N10-D3.0	06		0726										Hold
7	SB-7-W5-D0.5	07		0732					X					
8	SB-7-W10-D0.5	08		0741					X			X	X	Hold
9	SB-7-W10-D2.0	09		0743					X					Hold
10	SB-7-W10-D3.0	010		0745										Hold
11	SB-7-S5-D0.5	011		0752					X					
12	SB-7-S5-D0.5-DUP	12		0754					X					
13	SB-7-S10-D0.5	13		0808					X					Hold
14	SB-7-S5-D2.0	14		0756					X					Hold
15	SB-7-S5-D3.0	15	↓	0759	↓	↓	↓							Hold

TOTAL NUMBER OF CONTAINERS: 15

BILLING INFORMATION / SPECIAL INSTRUCTIONS

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: E. Salazar	Signature:	Signature:
Printed Name: Edward Dabis	Printed Name:	Printed Name:
Date: 6/14/2023 Time: 1215	Date: Time:	Date: Time:
RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: AETL 3.
Signature:	Signature:	Signature: Crystal Pineda
Printed Name:	Printed Name:	Printed Name: Crystal Pineda
Date: Time:	Date: Time:	Date: 6/14/23 Time: 12:15

TURN AROUND TIME
☐ NORMAL ☐ SAME DAY RUSH ☐ NEXT DAY RUSH
☐ 2 DAYS RUSH ☐ 3 DAYS RUSH ☐ 4 DAYS RUSH

DATA DELIVERABLE REQUIRED
☐ HARD COPY
☐ E-COPY
☐ GEOTRACKER (GLOBAL ID) _____
☐ OTHER (PLEASE SPECIFY) _____

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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CHAIN OF CUSTODY RECORD

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut St. Pasadena, CA 91124
PHONE EMAIL: (310) 809-5793
PROJECT NAME: LAUSD Canoga
PROJECT #:
SITE NAME AND ADDRESS: Canoga Park Highschool 6850 CA-27, Canoga Park, CA 91303

AETL JOB No. BEF0119

ANALYSIS REQUESTED

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	STLL-Pb	TCLP-Pb	STLL-As	TCLP-As					TEST INSTRUCTIONS & COMMENTS
1	SB-7-S10-D2.0	BEF0119-16	6/14/2023	0810	Soil	1 x 9oz	none		X									Hold
2	SB-7-S10-D3.0	17		0813														Hold
3	SB-28-E10-D3.0	18		0850														Hold
4	SB-28-E10-D0.5	19		0846				X		X	X							
5	SB-28-E10-D2.0	20		0848				X										Hold
6	SB-28-W10-D3.0	21		0902														Hold
7	SB-28-W10-D2.0	22		0900														Hold
8	SB-28-W10-D0.5	23		0857				X										
9	SB-34-N10-D0.5	24		0919					X			X	X					
10	SB-34-N10-D0.5-DUP	25		0921					X			X	X					
11	SB-34-N10-D2.0	26		0923					X									Hold
12	SB-34-N10-D3.0	27		0925														Hold
13	SB-34-S10-D0.5	28		0933					X			X	X					
14	SB-34-S10-D2.0	29		0936					X									Hold
15	SB-34-S10-D3.0	30		0938					X									Hold

TOTAL NUMBER OF CONTAINERS: 15

BILLING INFORMATION / SPECIAL INSTRUCTIONS

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: [signature]	Signature:	Signature:
Printed Name: Edward Dabys	Printed Name:	Printed Name:
Date: 6/14/23 Time: 1215	Date: Time:	Date: Time:

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: 3.
Signature:	Signature:	Signature: [signature]
Printed Name:	Printed Name:	Printed Name: Certa Giragoosian
Date: Time:	Date: Time:	Date: 6/14/23 Time: 12:15

TURN AROUND TIME
- ✓ NORMAL
- ☐ SAME DAY RUSH
- ☐ NEXT DAY RUSH
- 2 DAYS RUSH
- ☐ 3 DAYS RUSH
- ☐ 4 DAYS RUSH

DATA DELIVERABLE REQUIRED
- ☐ HARD COPY
- ☐ E-COPY
- ☐ GEOTRACKER (GLOBAL ID) _____
- ☐ OTHER (PLEASE SPECIFY) _____

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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COOLER RECEIPT FORM

Client Name: Parsons

Project Name: LAUSD Canoga Project No.:

AETL Job Number: BEF0119

Date Received: 06/14/2023 Received by: Greta G

Carrier: ☐ AETL Courier ☑ Client ☐ GSL ☐ FedEx ☐ UPS
☐Others:

Samples were received in: ☑ Cooler (1) ☐ Other (Specify):

Sample Container Temperature: 5.8 °C IR Gun S/N: 51941911MV

Type of sample containers: ☐ VOA, ☐ Glass bottles, ☑Wide mouth jars, ☐HDPE bottles, ☐ Metal sleeves, ☐ Acetate sleeves, ☐ 5035 Kit: ☐ AETL or ☐ Client, ☐ Tedlar Bags, Summa Canister: ☐ 6L, ☐ 3L, ☐ 1L, Others (Specify): _____

How are samples preserved: ☐ None, ☑ Ice, ☐ Blue Ice, ☐ Dry Ice
☑ None, ☐ HNO_3, ☐ NaOH, ☐ ZnOAc, ☐ HCl, ☐ $Na_2S_2O_3$, ☐ MeOH, ☐ $NaHSO_4$
☐ Other (Specify):

	Yes	No	N/A	Note or Comment
1. Are the COCs Correct?	✔			
2. Are Sample labels legible & indelible ink?	✔			
3. Do samples match the COC?	✔			
4. Are the required analyses clear?	✔			
5. Is there enough samples for required analysis?	✔			
6. Does cooler or samples have custody seal(s)?			✔	
7. Are sample containers in good condition?	✔			
8. Are samples preserved?	✔			
9. Are samples preserved properly for the intended analysis?	✔			
10. Are the VOAs free of headspace? See footnote.			✔	
11. Are the jars free of headspace?			✔	

* = see note below. N/A = Not Applicable

PLEASE NOTE ALL SAMPLES WILL BE DISPOSED OF 30 DAYS AFTER RECEIVING DATE. IF AETL IS INFORMED OTHERWISE, THERE WILL BE A STORAGE CHARGE PER SAMPLE PER MONTH FOR ANY SAMPLE HELD BEYOND 30 DAYS.

◯ Example maximum headspace bubble size; acceptance criteria not to exceed 5-6 mm in diameter.

For headspace bubbles exceeding 6 mm in diameter, sample receiving will tag the VOA and notify the Project Manager. The Project Manager will contact client for Analyze or Resample instructions.

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Parsons	AETL Job Number:	BEF0119	Site:	Canoga Park High School
100 West Walnut Street	Project Number:	[none]		6850 CA-27
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303
	Project Name:	LAUSD Canoga	Reported:	07/25/2023 17:11

Case Narrative

The following "Sample Received" Section summarizes the samples received and associated analyses requested as specified on the enclosed chain of custody.

Results as reported by the laboratory apply only to 1) the items tested, 2) as the samples are received, and 3) the accuracy of information provided. Information supplied by the customer that may affect validity of results and may be contained in this report include Project Name/Number, Site Location, Sample Locations, Sampling Dates/Times, Sample ID, Sample Preservation, Sample Matrix, Sample Properties, Field Blanks, Field Duplicates, Field Spikes, and Site Historical Data.

Accreditation applies only to the test methods listed on each scope of accreditation held by the laboratory; certifications held by the laboratory may not apply to results supplied in this report.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

No analytical non-conformances were encountered.

Qualifiers are noted in the report.

The sample was subcontracted to Asset Laboratories for EPA 6020, STLC, and TCLP. Please see attached report for results.

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

AMERICAN ENVIRONMENTAL TESTING LABORATORY, LLC
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Telephone (888) 288-AETL • (818) 845-8200 • www.aetlab.com
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Parsons	AETL Job Number:	BEF0119	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LAUSD Canoga	Reported:	07/25/2023 17:11	

Samples Received

AETL received the following samples on 06/14/2023 with the following specifications

Client ID			Sample Date
SB-7-W10-D0.5			06/14/2023 7:41
Lab ID	**Matrix**		**Quantity of Containers**
BEF0119-08	Soil		3

Method	Analyte	Units	TAT
EPA 6010B-1311 TCLP	TCLP Arsenic by ICP	mg/L	5

Total Number of Samples received: 1

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

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Telephone (888) 288-AETL • (818) 845-8200 • www.aetlab.com
A KYZER LABS COMPANY

Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEF0119 [none] Justin King LAUSD Canoga	Site: Reported:	Canoga Park High School 6850 CA-27 Canoga Park, CA 91303 07/25/2023 17:11

Positive Hits Summary

Lab ID	Client ID					Sampled
Method	Analyte	Result	Qualifier	Unit		Analyzed

Please see subcontract report.

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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AMERICAN ENVIRONMENTAL TESTING LABORATORY, LLC
2840 North Naomi Street, Burbank, CA 91504 • ELAP# 1541 • LACSD# 10181
Telephone (888) 288-AETL • (818) 845-8200 • www.aetlab.com
A KYZER LABS COMPANY

Parsons	AETL Job Number:	BEF0119	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LAUSD Canoga	Reported:	07/25/2023 17:11	

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEF0119 [none] Justin King LAUSD Canoga	Site: Reported:	Canoga Park High School 6850 CA-27 Canoga Park, CA 91303 07/25/2023 17:11

Qualifiers and Definitions

Item	Definitions
% wt	Percent Weight
%REC	Percent Recovery
°F	Degrees Fahrenheit
AETL	American Environmental Testing Laboratory, LLC
C	Carbon
CARB	California Air Resources Board
COC	Chain of Custody
Cresols	3-methylphenol/4-methylphenol coelute and cannot be chromatographically separated. Due to this coeluting isomer pair phenomenon, the laboratory uses a single cresol (4-methylphenol) as calibration standard for 3-methylphenol/4-methylphenol.
CRM	Certified Reference Material
DI	Deionized Water
DPD	Department of Planning and Development
DRO	Diesel Range Organics
Dup	Duplicate
ELAP	Environmental Laboratory Accreditation Program
EPA	Environmental Protection Agency
GC/FID	Gas Chromatography Flame Ionization Detection
GRO	Gasoline Range Organics
HC	Hydrocarbon
HEM	Hexane Extractable Material
HMU	Hazardous Material Unit
ICP/MS	Inductively Coupled Plasma Mass Spectrometry
LACSD	Los Angeles County Sanitation Districts
LCS	Laboratory Control Sample - A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes.
LCSD	Laboratory Control Sample Duplicate - A replicate of Laboratory Control Sample.
LOQ	Limit of Quantitation
MDL	Method Detection Limit - The minimum measured concentration of a substance that can be reported with 99% confidence. MDL is statistically derived number which is specific for each instrument, each method and each compound.
mg/kg	Miligrams per Kilogram
mg/L	Miligrams per Liter
ml/L/hr	Milliliter per Liter per Hour
MRO	Motor oil Range Organics
MS	Matrix Spike - A sample prepared, taken through all sample preparation and analytical steps of the procedure and analyzed as an independent test results.
MSD	Matrix Spike Duplicate - A replicate of Matrix Spike Sample.
N	No
ND	Analyte is not detected below Method Detection Limit.

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Parsons	AETL Job Number:	BEF0119	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LAUSD Canoga	Reported:	07/25/2023 17:11	

ng/m3	Nanograms per cubic meter
NIOSH	National Institute for Occupational Safety and Health
nL/L	Nanoliters per Liter
NTU	Nephelometric Turbidity Units
Ohm-cm	Ohms per centimeter
ORO	Oil Range Organics
OSHA	Occupational Safety and Health Administration
PCB	Polychlorinated Biphenyl
ppb v	Parts per billion by volume
ppmC	Parts per million Carbon
PSU	Practical Salinity Unit
RL	Reporting Limit - The lowest concentration at which an analyte can be detected in a sample and its concentration can be reported with a specified degree of confidence, accuracy and precision. For usage at AETL, RL is equivalant to LOQ.
RPD	Relative Percent Difference
SIM	Selective Ion Monitoring
SM	Standard Method
SPLP	Synthetic Precipitation Leaching Procedure
STLC	Soluble Threshold Limit Concentration
TCLP	Toxicity Characteristic Leaching Procedure
TPH	Total Petroleum Hydrocarbons
TTLC	Total Threshold Limit Concentrations
ug/kg	Micrograms per Kilogram
ug/L	Micrograms per Liter
ug/m3	Micrograms per cubic meter
WET	Waste Extraction Test
Y	Yes
ZHE	Zero Headspace Extraction

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July 24, 2023

Hailley Coleman
American Environmental Testing Laboratory, Inc.
2834 N. Naomi Street
Burbank, CA 91504

TEL: (818) 845-8200
FAX:

Workorder No.: N057806

RE: BEF0119.02

Attention: Hailley Coleman

Enclosed are the results for sample(s) received on July 18, 2023 by ASSET Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562) 219-7435 if I can be of further assistance to your company.

Sincerely,

for

Ferdinand Paul Lugtu
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and ASSET Laboratories - California.

SAMPLE RECEIVING/GENERAL COMMENTS:

All sample containers were received intact with proper chain of custody documentation.

Information on sample receipt conditions including discrepancies can be found in attached Sample Receipt Checklist Form.

Cooler temperature and sample preservation were verified upon receipt of samples if applicable.

Samples were analyzed within method holding time.

This is an addendum for workorder N057610.

ASSET Laboratories

Date: *24-Jul-23*

CLIENT: American Environmental Testing Laborator
Project: BEF0119.02
Lab Order: N057806
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N057806-001A	BEF0119-08	Soil	6/14/2023 7:41:00 AM	7/18/2023	7/24/2023

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEF0119-08
Lab Order:	N057806		
Project:	BEF0119.02	**Collection Date:**	6/14/2023 7:41:00 AM
Lab ID:	N057806-001	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS BY TCLP EXTRACTION						
	EPA 3010A			**EPA 1311/ 6010B**		
RunID: CA01638-ICP01_230721B	QC Batch: 100960			PrepDate:	7/21/2023	Analyst: **PL**
Arsenic	0.93	0.050		mg/L	1	7/21/2023 06:54 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: American Environmental Testing Laboratory, Inc.
Work Order: N057806
Project: BEF0119.02

ANALYTICAL QC SUMMARY REPORT

TestCode: CA_6010_TC

Sample ID: **LCS-100960**	SampType: **LCS**	TestCode: **CA_6010_TC**	Units: **mg/L**	Prep Date: **7/21/2023**	RunNo: **174128**
Client ID: **LCSS**	Batch ID: **100960**	TestNo: **EPA 1311/ 60 EPA 3010A**		Analysis Date: **7/21/2023**	SeqNo: **5295739**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.492	0.050	0.5000	0	98.3	85	115				

Sample ID: **MB-100960**	SampType: **MBLK**	TestCode: **CA_6010_TC**	Units: **mg/L**	Prep Date: **7/21/2023**	RunNo: **174128**
Client ID: **PBS**	Batch ID: **100960**	TestNo: **EPA 1311/ 60 EPA 3010A**		Analysis Date: **7/21/2023**	SeqNo: **5295740**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.050									

Sample ID: **MB-100879 TCLP**	SampType: **MBLK**	TestCode: **CA_6010_TC**	Units: **mg/L**	Prep Date: **7/21/2023**	RunNo: **174128**
Client ID: **PBS**	Batch ID: **100960**	TestNo: **EPA 1311/ 60 EPA 3010A**		Analysis Date: **7/21/2023**	SeqNo: **5295741**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.050									

Sample ID: **N057806-001A-MS**	SampType: **MS**	TestCode: **CA_6010_TC**	Units: **mg/L**	Prep Date: **7/21/2023**	RunNo: **174128**
Client ID: **ZZZZZZ**	Batch ID: **100960**	TestNo: **EPA 1311/ 60 EPA 3010A**		Analysis Date: **7/21/2023**	SeqNo: **5295745**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	1.428	0.050	0.5000	0.9294	99.7	75	125				

Sample ID: **N057806-001A-MSD**	SampType: **MSD**	TestCode: **CA_6010_TC**	Units: **mg/L**	Prep Date: **7/21/2023**	RunNo: **174128**
Client ID: **ZZZZZZ**	Batch ID: **100960**	TestNo: **EPA 1311/ 60 EPA 3010A**		Analysis Date: **7/21/2023**	SeqNo: **5295748**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	1.456	0.050	0.5000	0.9294	105	75	125	1.428	1.94	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

Subject: RE: BEF0119.02 (ASSET Labs No. N057610)
From: Hailley Coleman <hcoleman@aetlab.com>
Date: 7/18/2023, 12:02 PM
To: Kim San Antonio <kim@assetlaboratories.com>
CC: "maribel@assetlaboratories.com" <maribel@assetlaboratories.com>, Yoandra Rodriguez <yoandra@assetlaboratories.com>, Eilen Fanego Fontes <eilen@assetlaboratories.com>, Rustico Aquino <rustico.aquino@assetlaboratoriesph.com>, Mary Ann Balilu <maryann.balilu@assetlaboratoriesph.com>, "tmalit@assetlaboratories.com" <tmalit@assetlaboratories.com>

Please proceed.

Thank you,

Hailley Coleman
Project Manager

How are we doing? Please click here for a short survey

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ANAB
ANSI National Accreditation Board
ACCREDITED
ISO/IEC 17025
TESTING LABORATORY

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From: Kim San Antonio <kim@assetlaboratories.com>
Sent: Tuesday, July 18, 2023 12:01 PM
To: Hailley Coleman <hcoleman@aetlab.com>
Cc: maribel@assetlaboratories.com; Yoandra Rodriguez <yoandra@assetlaboratories.com>; Eilen Fanego Fontes <eilen@assetlaboratories.com>; Rustico Aquino <rustico.aquino@assetlaboratoriesph.com>; Mary Ann Balilu <maryann.balilu@assetlaboratoriesph.com>; tmalit@assetlaboratories.com
Subject: Re: BEF0119.02 (ASSET Labs No. N057610)

Hailey,

TCLP requires minimum of 100g per SOP. However, it can be run as a limited sample. Please let us know if we could proceed.

Thank you,

Kim

On 7/18/2023 11:11 AM, Hailley Coleman wrote:

> Standard TAT is fine. Thanks!
>
> **Hailley Coleman**
> **Project Manager**

How are we doing? Please click here for a short survey

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From: Thad Malit <tmalit@assetlaboratories.com>
Sent: Tuesday, July 18, 2023 11:08 AM
To: Hailley Coleman <hcoleman@aetlab.com>
Cc: maribel@assetlaboratories.com; Kim San Antonio <kim@assetlaboratories.com>; Yoandra Rodriguez <yoandra@assetlaboratories.com>; Eilen Fanego Fontes <eilen@assetlaboratories.com>; Rustico Aquino <rustico.aquino@assetlaboratoriesph.com>; Mary Ann Balilu <maryann.balilu@assetlaboratoriesph.com>
Subject: Re: BEF0119.02 (ASSET Labs No. N057610)

Hi Hailey

Noted, will run additional analysis on standard tat unless otherwise requested.

Regards
Thad

Sent from my iPhone

> On Jul 18, 2023, at 11:03 AM, Hailley Coleman <hcoleman@aetlab.com> wrote:
>
> Good morning Thad,
>
> Can you please run sample BEF0119.02-08 (sampled 6/14 at 7:41am) for TCLP-As?
>
> Thank you!
>
> **Hailley Coleman**
> **Project Manager**
>
> How are we doing? Please click here for a short survey

ASSET Laboratories

Please review the checklist below. Any NO and/or NA signifies non-compliance. Any non-compliance will be noted and must be understood as having an impact on the quality of the data. All tests will be performed as requested regardless of any compliance issues.

If you have any questions or further instruction, please contact our Project Coordinator at (702) 307-2659.

Change Order Checklist

Client Name: **AETL01**

Date / Time Created: **7/18/2023 12:18:08 PM**

Work Order Number: **N057806**

Created by: **KS**

Checklist completed by: Signature 7/18/2023 Date

Review [redacted] /2023 ate

1. All samples within holding time?	Yes ☑	No ☐
2. Refrigerator temperature in compliance?	Yes ☑	No ☐
3. Change Order documents present?	Yes ☑	No ☐

Comments:

ASSET Laboratories

WORK ORDER Summary

18-Jul-23

WorkOrder: N057806

Client ID: AETL01

Project: BEF0119.02 **QC Level:** RTNE **Date Received:** 7/18/2023 12:14 PM

Comments: Addendum for N057610

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N057806-001A	BEF0119-08	6/14/2023 7:41:00 AM	7/25/2023	Soil	EPA 1311	TCLP Sample Prep Metals	☐	☐	☐	WS-CA
			7/25/2023		EPA 3010A	AQPrep for Total Metals	☐	☐	☐	WS-CA
			7/25/2023		EPA 1311/ 6010B	ICP METALS by TCLP Extraction	☐	☐	☐	WS-CA
N057806-002A	FOLDER	7/25/2023	7/25/2023		Folder	Folder	☐	☐	☐	LAB
			7/25/2023		Folder	Folder	☐	☐	☐	LAB

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August 15, 2023

AETL Job No: BEG0118 Rev. 01
Received Date: 07/17/2023
Project Number: [none]

Parsons
100 West Walnut Street
Pasadena, CA 91124
Telephone: (626) 440-6200

Attention: Justin King

Project Name: LAUSD Canoga

Site: Canoga Park High School
6850 CA-27
Canoga Park, CA 91303

Enclosed please find the results of analyses for samples which were analyzed as specified on the attached chain of custody. If you have any questions concerning this report, please do not hesitate to call.

Checked By: Hailley Coleman

Hailley Coleman
Project Manager

Approved By: Joe Sevrean

Joe Sevrean
Laboratory Director

Table of Contents

Client Project Name: Canoga Park High School Project Number: [none]
Work Order Number: BEG0118

1	Cover Letter	1
2	Sample Condition on Receipt	3
3	Chain of Custody	4
4	Cooler Receipt Forms	9
5	Case Narrative	10
6	Samples Received	11
7	Positive Hits Summary	30
8	Analytical Results	31
9	Quality Control Results	36
10	Qualifiers and Definitions	40
11	Sub Contracted Analysis	42

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Revised and Reissued
Rev. 01

Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEG0118 [none] Justin King LAUSD Canoga	Site: Reported:	Canoga Park High School 6850 CA-27 Canoga Park, CA 91303 08/15/2023 13:45

Sample Condition on Receipt

Cooler ID: Default Cooler **Temperature: 5.8 °C**

Are the COCs Correct	Y		
Labels Legible	Y	Containers In Good Condition	Y
COC/Labels Agree	Y	Samples Preserved Properly	Y
Sufficient Sample Volume	Y	Sufficient Holding Time for all Tests	Y
Sample Labels intact	Y	Received on Ice	Y

Cooler ID: New Cooler **Temperature: 5.7 °C**

Are the COCs Correct	Y		
Labels Legible	Y	Containers In Good Condition	Y
COC/Labels Agree	Y	Samples Preserved Properly	Y
Sufficient Sample Volume	Y	Sufficient Holding Time for all Tests	Y
Sample Labels intact	Y	Received on Ice	Y

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CHAIN OF CUSTODY RECORD

AETL JOB No. BEG00118 Page 1 of 5

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut Street. Pasadena, CA 91124
PHONE / EMAIL: (310) 809-5793
PROJECT NAME: LAUSD Canoga
PROJECT #:
SITE NAME AND ADDRESS: Canoga Park Highschool 6850 Canoga Park, CA 91303
PO #: 453413

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	STLC - Pb	TLCP - Pb	STLC - As	TLCP - As	TEST INSTRUCTIONS & COMMENTS
1	SB-38-SW-35-D0.5	01	7/17/2023	0720	Soil	1x 9oz	none		X					
2	SB-26-SW-10-D0.5	02	7-17-2023	0746	Soil	1x 9oz	none		X			X	X	~~Hold~~ EP.
3	SB-26-SW-10-D2.0	03	7-17-2023	0747	Soil	1x 9oz	none		X					Hold
4	SB-26-SW-10-D3.0	04	7-17-2023	0744	Soil	1x 9oz	none		X	EP.				Hold
5	SB-26-SW15-D0.5	05	7-17-2023	0814	Soil	1x 9oz	none		X			X		~~Hold~~ EP.
6	SB-26-SW15-D2.0	06	7-17-2023	0815	Soil	1x 9oz	none		X					Hold
7	SB-26-SW15-D3.0	07	7-17-2023	0816	Soil	1x 9oz	none							Hold
8	SB-26-E15-D0.5 Dup	08	7-17-2023	0823	Soil	~~1x 9oz~~ 1x 9oz	none		X			X		
9	SB-26-E15-D2.0	09	7-17-2023	0827	Soil	1x 9oz	none		X					Hold
10	SB-26-E15-D3.0	10	7-17-2023	0829	Soil	1x 9oz	none							Hold
11	SB-26-E15-D0.5 ~~Dup~~	11	7-17-2023	0823	Soil	1x 9oz	none		X			X		
12	SB-26-E10 D0.5	12	7-17-2023	0842	Soil	1x 9oz	none		X			X	X	
13	SB-26-E10 D2.0	13	7-17-2023	0846	Soil	1x 9oz	none		X					Hold
14	SB-26-E10 D3.0	14	7-17-2023	0849	Soil	1x 9oz	none							Hold
15														

EP

TOTAL NUMBER OF CONTAINERS: 14

BILLING INFORMATION / SPECIAL INSTRUCTIONS

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:	Signature:	Signature:
Printed Name: Edward Dabsys	Printed Name:	Printed Name:
Date: 7/17/2023 Time: 1550	Date: Time:	Date: Time:
RECEIVED BY: 1.	**RECEIVED BY:** 2.	**RECEIVED BY LABORATORY:** 3.
Signature:	Signature:	Signature:
Printed Name:	Printed Name:	Printed Name:
Date: Time:	Date: Time:	Date: 7/17/23 Time: 15:50

TURN AROUND TIME
- ☐ NORMAL
- ☐ SAME DAY RUSH
- ☐ NEXT DAY RUSH
- ☐ 2 DAYS RUSH
- ☑ 3 DAYS RUSH
- ☐ 4 DAYS RUSH

DATA DELIVERABLE REQUIRED
- ☐ HARD COPY
- ☐ E-COPY
- ☐ GEOTRACKER (GLOBAL ID) _____
- ☐ OTHER (PLEASE SPECIFY) _____

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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CHAIN OF CUSTODY RECORD

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut Street Pasadena, CA 91124
PHONE / EMAIL: (310) 809-5793
PROJECT NAME: LAUSD Canoga
PROJECT #:
SITE NAME AND ADDRESS: Canoga Park High school 6850 Canoga Park, CA 91303
PO #: CA27 453413
AETL JOB No.: BE-20118
Page 2 of 5

	SAMPLE ID	LAB ID (BE-20118)	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1	SB-26-E25-D0.5	15	7-17-2023	0900	Soil	1x4oz	none
2	SB-26-E25-D2.0	16	7-17-2023	0902	Soil	1x4oz	"
3	SB-26-E25-D3.0	17	7-17-2023	0904	Soil	1x4oz	"
4	SB-7-SW-25-D0.5	18		928			
5	SB-7-SW-25-D2.0	19		0931			
6	SB-7-SW-25-D3.0	20		0933			
7	SB-7-SW20-D0.5	21		0946			
8	SB-7-SW20-D2.0	22		0948			
9	SB-7-SW20-D3.0	23		0951			
10	SB-7-S20-D0.5	24		0955			
11	SB-7-S20-D2.0	25		0957			
12	SB-7-S20-D3.0	26		1000			
13	SB-5-W15-D0.5	27		1005			
14	SB-5-W15-D2.0	28		1007			
15	SB-5-W15-D3.0	29		1010			

ANALYSIS REQUESTED

Lead (6010B)	Arsenic (6020)	STLC-Pb	TCLP-Pb	STLC-As	TCLP-As					TEST INSTRUCTIONS & COMMENTS
	X			X						Hold
	X									Hold
	X									Hold
	X									
										1-Hold
										1-Hold
	X									
										Hold
										Hold
	X									
										Hold
										Hold
	X									
	X									Hold
										Hold

TOTAL NUMBER OF CONTAINERS: 15

BILLING INFORMATION / SPECIAL INSTRUCTIONS

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: E. Salazar	Signature:	Signature:
Printed Name: Edward Dabsys	Printed Name:	Printed Name:
Date: 7/17/2023 Time: 1540	Date: Time:	Date: Time:
RECEIVED BY: 1.	**RECEIVED BY:** 2.	**RECEIVED BY LABORATORY:** 3.
Signature:	Signature:	Signature:
Printed Name:	Printed Name:	Printed Name:
Date: Time:	Date: Time:	Date: 7/17/23 Time: 15:50

TURN AROUND TIME
- ☐ NORMAL
- ☐ SAME DAY RUSH
- ☐ NEXT DAY RUSH
- ☐ 2 DAYS RUSH
- ☑ 3 DAYS RUSH
- ☐ 4 DAYS RUSH

DATA DELIVERABLE REQUIRED
- ☐ HARD COPY
- ☐ E-COPY
- ☐ GEOTRACKER (GLOBAL ID) _____
- ☐ OTHER (PLEASE SPECIFY) _____

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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CHAIN OF CUSTODY RECORD

AETL JOB No. BEG0118

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut Street Pasadena, CA 91124
PHONE EMAIL: (310) 809-5793
PROJECT NAME: LAUSD Canoga
PROJECT #:
SITE NAME AND ADDRESS: Canoga Park Highschool 6850 CA-27 Canoga Park, CA 91303
PO #: 453413

ANALYSIS REQUESTED

	SAMPLE ID	LAB ID BEG0118	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	STLC-Pb	TCLP-Pb	STLC-As	TCLP-As					TEST INSTRUCTIONS & COMMENTS
1	SB-5-E20-D0.5	30	7/17/2023	1015	Soil	1x 9oz	none		X			X	X					
2	SB-5-E20-D2.0	31		1020					X									Hold
3	SB-5-E20-D3.0	32		1022														Hold
4	SB-5-E20-D0.5DUP	33		1017					X			X	X					
5	SB-1-W10-D0.5	34		1046					X									
6	SB-1-W10-D2.0	35		1048					X									Hold
7	SB-1-W10-D3.0	36		1051														Hold
8	SB-1-SW20-D0.5	37		1054					X									
9	SB-1-SW20-D2.0	38		1056					X									Hold
10	SB-1-SW20-D3.0	39		1059														Hold
11	SB-3-S15-D0.5	40		1103				X		X	X							Hold
12	SB-3-S15-D2.0	41		1105				X										Hold
13	SB-3-S15-D3.0	42		1108														Hold
14	SB-3-S10-D0.5	43		1111				X		X	X							
15	SB-3-S10-D0.5DUP	44		1113				X		X								

TOTAL NUMBER OF CONTAINERS: 15

BILLING INFORMATION / SPECIAL INSTRUCTIONS

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: E. Galarza	Signature:	Signature:
Printed Name: Edward Dabsys	Printed Name:	Printed Name:
Date: 7/17/2023 Time: 1550	Date: Time:	Date: Time:

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: AETL 3.
Signature:	Signature:	Signature:
Printed Name:	Printed Name:	Printed Name: Cereta Caregosin
Date: Time:	Date: Time:	Date: 07/17/23 Time: 15:50

TURN AROUND TIME
- ☐ NORMAL
- ☐ SAME DAY RUSH
- ☐ NEXT DAY RUSH
- ☐ 2 DAYS RUSH
- ☑ 3 DAYS RUSH
- ☐ 4 DAYS RUSH

DATA DELIVERABLE REQUIRED
- ☐ HARD COPY
- ☐ E-COPY
- ☐ GEOTRACKER (GLOBAL ID) _____
- ☐ OTHER (PLEASE SPECIFY) _____

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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CHAIN OF CUSTODY RECORD

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut Street Pasadena, CA 91124
PHONE / EMAIL: (310) 809-5793
PROJECT NAME: LAUSD Canoga
PROJECT #:
SITE NAME AND ADDRESS: Canoga Park Highschool, 6850 CA-27 Canoga Park, CA 91303
PO #: 453413
AETL JOB No.: BE-Q0118
Page 4 of 5

	SAMPLE ID	LAB ID (BE-Q0118)	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1	SB-3-S10-D2.0	45	7/17/2023	1115	Soil	1x9oz	none
2	SB-3-S10-D3.0	46		1117			
3	SB-51-SW10-D0.5	47		1145			
4	SB-51-SW10-D2.0	48		1146			
5	SB-51-SW10-D3.0	49		1147			
6	SB-51-S10-D0.5	50		1201			
7	SB-51-S10-D2.0	51		1202			
8	SB-51-S10-D3.0	52		1203			
9	SB-51-SE10-D0.5	53		1211			
10	SB-51-SE10-D0.5 DUP	54		1211			
11	SB-51-SE10-D2.0	55		1212			
12	SB-51-SE10-D3.0	56		1213			
13	SB-51-SW10-D0.5	57		1223			
14	SB-51-SW10-D2.0	58		1226			
15	SB-51-SW10-D3.0	59		1230			

TOTAL NUMBER OF CONTAINERS: 15

ANALYSIS REQUESTED

Lead (6010B)	Arsenic (6020)	STLC-Pb	TLCP-Pb	STLC-As	TLCP-As					TEST INSTRUCTIONS & COMMENTS
X										Hold
										Hold
	X			X	X					
	X			X	X					Hold
	X			X	X					Hold
	X									
	X									Hold
										Hold
	X									
	X									
	X									Hold
										Hold
	#2	E.D.								Hold
										Hold
										Hold

BILLING INFORMATION / SPECIAL INSTRUCTIONS

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: E Salazar	Signature:	Signature:
Printed Name: Edward Salazar	Printed Name:	Printed Name:
Date: 7/17/2023 Time: 1550	Date: Time:	Date: Time:
RECEIVED BY: 1.	**RECEIVED BY:** 2.	**RECEIVED BY LABORATORY:** 3.
Signature:	Signature:	Signature:
Printed Name:	Printed Name:	Printed Name:
Date: Time:	Date: Time:	Date: 7/17/23 Time: 18:50

TURN AROUND TIME
- ☐ NORMAL
- ☐ SAME DAY RUSH
- ☐ NEXT DAY RUSH
- ☐ 2 DAYS RUSH
- ☑ 3 DAYS RUSH
- ☐ 4 DAYS RUSH

DATA DELIVERABLE REQUIRED
- ☐ HARD COPY
- ☐ E-COPY
- ☐ GEOTRACKER (GLOBAL ID) _____
- ☐ OTHER (PLEASE SPECIFY) _____

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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CHAIN OF CUSTODY RECORD

AETL JOB No. BEC0118

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut street Pasadena, CA 91124
PHONE EMAIL: (310) 809-5793
PROJECT NAME: LAUSD Canoga
PROJECT #: 453413
SITE NAME AND ADDRESS: Canoga Park Highschool 6850 CA-27 Canoga Park, CA 91303
PO #:

ANALYSIS REQUESTED

	SAMPLE ID	LAB ID BEC0118	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	STLC-Pb	TCLP-Pb	STLC-As	TCLP-As					TEST INSTRUCTIONS & COMMENTS
1	SB-44-S20-D0.5	60	7/17/2023	1250	soil	1X 9oz	none		X									
2	SB-44-S20-D2.0	61		1251					X			X						Hold
3	SB-44-S20-D3.0	62		1252					X									Hold
4	SB-44-N20-D0.5	63		1301					X			X						
5	SB-44-N20-D2.0	64		1304					X			X						Hold
6	SB-44-N20-D3.0	65		1306					X									Hold
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		

TOTAL NUMBER OF CONTAINERS: 6

BILLING INFORMATION / SPECIAL INSTRUCTIONS

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: E. Galvez	Signature:	Signature:
Printed Name: Edward Dobys	Printed Name:	Printed Name:
Date: 7/17/2023 Time: 1550	Date: Time:	Date: Time:

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: 3.
Signature:	Signature:	Signature: AETL
Printed Name:	Printed Name:	Printed Name: Greta Pirosporin
Date: Time:	Date: Time:	Date: 7/17/23 Time: 15:50

TURN AROUND TIME
- ☐ NORMAL
- ☐ SAME DAY RUSH
- ☐ NEXT DAY RUSH
- ☐ 2 DAYS RUSH
- ☑ 3 DAYS RUSH
- ☐ 4 DAYS RUSH

DATA DELIVERABLE REQUIRED
- ☐ HARD COPY
- ☐ E-COPY
- ☐ GEOTRACKER (GLOBAL ID) _____
- ☐ OTHER (PLEASE SPECIFY) _____

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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COOLER RECEIPT FORM

Client Name: Parsons

Project Name: LAUSD Canoga Project No.:

AETL Job Number: BEG0118

Date Received: 07/17/2023 Received by: Greta G

Carrier: ☐ AETL Courier ☑ Client ☐ GSL ☐ FedEx ☐ UPS
☐Others:

Samples were received in: ☑ Cooler (__2_____) ☐ Other (Specify):

Sample Container Temperature: __5.8__ °C IR Gun S/N: 51941911MV

Type of sample containers: ☐ VOA, ☐ Glass bottles, ☑Wide mouth jars, ☐HDPE bottles, ☐ Metal sleeves, ☐ Acetate sleeves, ☐ 5035 Kit: ☐ AETL or ☐ Client, ☐ Tedlar Bags, Summa Canister: ☐ 6L, ☐ 3L, ☐ 1L, Others (Specify): _____

How are samples preserved: ☐ None, ☑ Ice, ☐ Blue Ice, ☐ Dry Ice
☑ None, ☐ HNO_3, ☐ NaOH, ☐ ZnOAc, ☐ HCl, ☐ $Na_2S_2O_3$, ☐ MeOH, ☐ $NaHSO_4$
☐ Other (Specify):

	Yes	No	N/A	Note or Comment
1. Are the COCs Correct?	✔			
2. Are Sample labels legible & indelible ink?	✔			
3. Do samples match the COC?	✔			
4. Are the required analyses clear?	✔			
5. Is there enough samples for required analysis?	✔			
6. Does cooler or samples have custody seal(s)?			✔	
7. Are sample containers in good condition?	✔			
8. Are samples preserved?	✔			
9. Are samples preserved properly for the intended analysis?	✔			
10. Are the VOAs free of headspace? See footnote.			✔	
11. Are the jars free of headspace?			✔	

* = see note below. N/A = Not Applicable

PLEASE NOTE ALL SAMPLES WILL BE DISPOSED OF 30 DAYS AFTER RECEIVING DATE. IF AETL IS INFORMED OTHERWISE, THERE WILL BE A STORAGE CHARGE PER SAMPLE PER MONTH FOR ANY SAMPLE HELD BEYOND 30 DAYS.

◯ Example maximum headspace bubble size; acceptance criteria not to exceed 5-6 mm in diameter.

For headspace bubbles exceeding 6 mm in diameter, sample receiving will tag the VOA and notify the Project Manager. The Project Manager will contact client for Analyze or Resample instructions.

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Revised and Reissued
Rev. 01

Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEG0118 [none] Justin King LAUSD Canoga	Site: Reported:	Canoga Park High School 6850 CA-27 Canoga Park, CA 91303 08/15/2023 13:45

Case Narrative

The following "Sample Received" Section summarizes the samples received and associated analyses requested as specified on the enclosed chain of custody.

Results as reported by the laboratory apply only to 1) the items tested, 2) as the samples are received, and 3) the accuracy of information provided. Information supplied by the customer that may affect validity of results and may be contained in this report include Project Name/Number, Site Location, Sample Locations, Sampling Dates/Times, Sample ID, Sample Preservation, Sample Matrix, Sample Properties, Field Blanks, Field Duplicates, Field Spikes, and Site Historical Data.

Accreditation applies only to the test methods listed on each scope of accreditation held by the laboratory; certifications held by the laboratory may not apply to results supplied in this report.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

Qualifiers are noted in the report.

The samples were subcontracted to Asset Laboratories for EPA 6020, STLC, and TCLP. Please see attached report for results.

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

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Parsons	AETL Job Number:	BEG0118	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LAUSD Canoga	Reported:	08/15/2023 13:45	

Samples Received

AETL received the following samples on 07/17/2023 with the following specifications

Client ID		Sample Date
SB-38-SW25-D0.5		07/17/2023 7:20
Lab ID	**Matrix**	**Quantity of Containers**
BEG0118-01	Soil	2

Analysis	Units	TAT
EPA 6020	mg/kg	3

Client ID		Sample Date
SB-26-SW10-D0.5		07/17/2023 7:46
Lab ID	**Matrix**	**Quantity of Containers**
BEG0118-02	Soil	3

Analysis	Units	TAT
EPA 6010B-1311 TCLP	mg/L	3
EPA 6010B-STLC	mg/L	3
EPA 6020	mg/kg	3
STLC Extraction	N/A	3
TCLP Extraction	N/A	3

Client ID		Sample Date
SB-26-SW10-D2.0		07/17/2023 7:47
Lab ID	**Matrix**	**Quantity of Containers**
BEG0118-03	Soil	2

Analysis	Units	TAT
EPA 6020	mg/kg	3

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

Parsons	AETL Job Number:	BEG0118	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LAUSD Canoga	Reported:	08/15/2023 13:45	

Samples Received
(Continued)

AETL received the following samples on 07/17/2023 with the following specifications

Client ID		Sample Date
SB-26-SW10-D3.0		07/17/2023 7:48
Lab ID	**Matrix**	**Quantity of Containers**
BEG0118-04	Soil	1

Analysis	Units	TAT
Archive	N/A	0

Client ID		Sample Date
SB-26-W15-D0.5		07/17/2023 8:14
Lab ID	**Matrix**	**Quantity of Containers**
BEG0118-05	Soil	3

Analysis	Units	TAT
EPA 6010B-STLC	mg/L	3
EPA 6020	mg/kg	3
STLC Extraction	N/A	3

Client ID		Sample Date
SB-26-W15-D2.0		07/17/2023 8:15
Lab ID	**Matrix**	**Quantity of Containers**
BEG0118-06	Soil	2

Analysis	Units	TAT
EPA 6020	mg/kg	3

Client ID		Sample Date
SB-26-W15-D3.0		07/17/2023 8:16
Lab ID	**Matrix**	**Quantity of Containers**
BEG0118-07	Soil	1

Analysis	Units	TAT
Archive	N/A	0

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

Parsons	AETL Job Number:	BEG0118	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LAUSD Canoga	Reported:	08/15/2023 13:45	

Samples Received

(Continued)

AETL received the following samples on 07/17/2023 with the following specifications

Client ID		Sample Date
SB-26-E15-D0.5 Dup		07/17/2023 8:23
Lab ID	**Matrix**	**Quantity of Containers**
BEG0118-08	Soil	3

Analysis	Units	TAT
EPA 6010B-STLC	mg/L	3
EPA 6020	mg/kg	3
STLC Extraction	N/A	3

Client ID		Sample Date
SB-26-E15-D2.0		07/17/2023 8:27
Lab ID	**Matrix**	**Quantity of Containers**
BEG0118-09	Soil	2

Analysis	Units	TAT
EPA 6020	mg/kg	3

Client ID		Sample Date
SB-26-E15-D3.0		07/17/2023 8:29
Lab ID	**Matrix**	**Quantity of Containers**
BEG0118-10	Soil	1

Analysis	Units	TAT
Archive	N/A	0

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

Parsons	AETL Job Number:	BEG0118	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LAUSD Canoga	Reported:	08/15/2023 13:45	

Samples Received
(Continued)

AETL received the following samples on 07/17/2023 with the following specifications

Client ID		Sample Date
SB-26-E15-D0.5		07/17/2023 8:23
Lab ID	**Matrix**	**Quantity of Containers**
BEG0118-11	Soil	3

Analysis	Units	TAT
EPA 6010B-STLC	mg/L	3
EPA 6020	mg/kg	3
STLC Extraction	N/A	3

Client ID		Sample Date
SB-26-SE10-D0.5		07/17/2023 8:42
Lab ID	**Matrix**	**Quantity of Containers**
BEG0118-12	Soil	3

Analysis	Units	TAT
EPA 6010B-1311 TCLP	mg/L	3
EPA 6010B-STLC	mg/L	3
EPA 6020	mg/kg	3
STLC Extraction	N/A	3
TCLP Extraction	N/A	3

Client ID		Sample Date
SB-26-SE10-D2.0		07/17/2023 8:46
Lab ID	**Matrix**	**Quantity of Containers**
BEG0118-13	Soil	2

Analysis	Units	TAT
EPA 6020	mg/kg	3

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

Revised and Reissued
Rev. 01

Parsons	AETL Job Number:	BEG0118	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LAUSD Canoga	Reported:	08/15/2023 13:45	

Samples Received
(Continued)

AETL received the following samples on 07/17/2023 with the following specifications

Client ID		Sample Date
SB-26-SE10-D3.0		07/17/2023 8:49
Lab ID	**Matrix**	**Quantity of Containers**
BEG0118-14	Soil	1

Analysis	Units	TAT
Archive	N/A	0

Client ID		Sample Date
SB-26-E25-D0.5		07/17/2023 9:00
Lab ID	**Matrix**	**Quantity of Containers**
BEG0118-15	Soil	3

Analysis	Units	TAT
EPA 6010B-1311 TCLP	mg/L	5
EPA 6010B-STLC	mg/L	5
EPA 6020	mg/kg	3
STLC Extraction	N/A	5
TCLP Extraction	N/A	5

Client ID		Sample Date
SB-26-E25-D2.0		07/17/2023 9:02
Lab ID	**Matrix**	**Quantity of Containers**
BEG0118-16	Soil	2

Analysis	Units	TAT
EPA 6020	mg/kg	5

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

Revised and Reissued
Rev. 01

Parsons	AETL Job Number:	BEG0118	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LAUSD Canoga	Reported:	08/15/2023 13:45	

Samples Received
(Continued)

AETL received the following samples on 07/17/2023 with the following specifications

Client ID		Sample Date
SB-26-E25-D3.0		07/17/2023 9:04
Lab ID	**Matrix**	**Quantity of Containers**
BEG0118-17	Soil	2

Analysis	Units	TAT
EPA 6020	mg/kg	5

Client ID		Sample Date
SB-7-SW25-D0.5		07/17/2023 9:28
Lab ID	**Matrix**	**Quantity of Containers**
BEG0118-18	Soil	2

Analysis	Units	TAT
EPA 6020	mg/kg	3

Client ID		Sample Date
SB-7-SW25-D2.0		07/17/2023 9:31
Lab ID	**Matrix**	**Quantity of Containers**
BEG0118-19	Soil	1

Analysis	Units	TAT
Archive	N/A	0

Client ID		Sample Date
SB-7-SW25-D3.0		07/17/2023 9:33
Lab ID	**Matrix**	**Quantity of Containers**
BEG0118-20	Soil	1

Analysis	Units	TAT
Archive	N/A	0

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

Parsons	AETL Job Number:	BEG0118	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LAUSD Canoga	Reported:	08/15/2023 13:45	

Samples Received

(Continued)

AETL received the following samples on 07/17/2023 with the following specifications

Client ID		Sample Date
SB-7-SW20-D0.5		07/17/2023 9:46
Lab ID	**Matrix**	**Quantity of Containers**
BEG0118-21	Soil	2

Analysis	Units	TAT
EPA 6020	mg/kg	3

Client ID		Sample Date
SB-7-SW20-D2.0		07/17/2023 9:48
Lab ID	**Matrix**	**Quantity of Containers**
BEG0118-22	Soil	1

Analysis	Units	TAT
Archive	N/A	0

Client ID		Sample Date
SB-7-SW20-D3.0		07/17/2023 9:51
Lab ID	**Matrix**	**Quantity of Containers**
BEG0118-23	Soil	1

Analysis	Units	TAT
Archive	N/A	0

Client ID		Sample Date
SB-7-S20-D0.5		07/17/2023 9:55
Lab ID	**Matrix**	**Quantity of Containers**
BEG0118-24	Soil	2

Analysis	Units	TAT
EPA 6020	mg/kg	3

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Parsons	AETL Job Number:	BEG0118	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LAUSD Canoga	Reported:	08/15/2023 13:45	

Samples Received
(Continued)

AETL received the following samples on 07/17/2023 with the following specifications

Client ID		Sample Date
SB-7-S20-D2.0		07/17/2023 9:57
Lab ID	**Matrix**	**Quantity of Containers**
BEG0118-25	Soil	1
Analysis	**Units**	**TAT**
Archive	N/A	0

Client ID		Sample Date
SB-7-S20-D3.0		07/17/2023 10:00
Lab ID	**Matrix**	**Quantity of Containers**
BEG0118-26	Soil	1
Analysis	**Units**	**TAT**
Archive	N/A	0

Client ID		Sample Date
SB-5-W15-D0.5		07/17/2023 10:05
Lab ID	**Matrix**	**Quantity of Containers**
BEG0118-27	Soil	2
Analysis	**Units**	**TAT**
EPA 6020	mg/kg	3

Client ID		Sample Date
SB-5-W15-D2.0		07/17/2023 10:07
Lab ID	**Matrix**	**Quantity of Containers**
BEG0118-28	Soil	2
Analysis	**Units**	**TAT**
EPA 6020	mg/kg	3

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Parsons	AETL Job Number:	BEG0118	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LAUSD Canoga	Reported:	08/15/2023 13:45	

Samples Received

(Continued)

AETL received the following samples on 07/17/2023 with the following specifications

Client ID		Sample Date
SB-5-W15-D3.0		07/17/2023 10:10
Lab ID	**Matrix**	**Quantity of Containers**
BEG0118-29	Soil	1

Analysis	Units	TAT
Archive	N/A	0

Client ID		Sample Date
SB-5-E20-D0.5		07/17/2023 10:15
Lab ID	**Matrix**	**Quantity of Containers**
BEG0118-30	Soil	3

Analysis	Units	TAT
EPA 6010B-1311 TCLP	mg/L	3
EPA 6010B-STLC	mg/L	3
EPA 6020	mg/kg	3
STLC Extraction	N/A	3
TCLP Extraction	N/A	3

Client ID		Sample Date
SB-5-E20-D2.0		07/17/2023 10:20
Lab ID	**Matrix**	**Quantity of Containers**
BEG0118-31	Soil	2

Analysis	Units	TAT
EPA 6020	mg/kg	3

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Parsons	AETL Job Number:	BEG0118	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LAUSD Canoga	Reported:	08/15/2023 13:45	

Samples Received
(Continued)

AETL received the following samples on 07/17/2023 with the following specifications

Client ID		Sample Date
SB-5-E20-D3.0		07/17/2023 10:22
Lab ID	**Matrix**	**Quantity of Containers**
BEG0118-32	Soil	1

Analysis	Units	TAT
Archive	N/A	0

Client ID		Sample Date
SB-5-E20-D0.5Dup		07/17/2023 10:17
Lab ID	**Matrix**	**Quantity of Containers**
BEG0118-33	Soil	3

Analysis	Units	TAT
EPA 6010B-1311 TCLP	mg/L	3
EPA 6010B-STLC	mg/L	3
EPA 6020	mg/kg	3
STLC Extraction	N/A	3
TCLP Extraction	N/A	3

Client ID		Sample Date
SB-1-W10-D0.5		07/17/2023 10:46
Lab ID	**Matrix**	**Quantity of Containers**
BEG0118-34	Soil	2

Analysis	Units	TAT
EPA 6020	mg/kg	3

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Parsons	AETL Job Number:	BEG0118	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LAUSD Canoga	Reported:	08/15/2023 13:45	

Samples Received
(Continued)

AETL received the following samples on 07/17/2023 with the following specifications

Client ID		Sample Date
SB-1-W10-D2.0		07/17/2023 10:48
Lab ID	**Matrix**	**Quantity of Containers**
BEG0118-35	Soil	2

Analysis	Units	TAT
EPA 6020	mg/kg	3

Client ID		Sample Date
SB-1-W10-D3.0		07/17/2023 10:51
Lab ID	**Matrix**	**Quantity of Containers**
BEG0118-36	Soil	1

Analysis	Units	TAT
Archive	N/A	0

Client ID		Sample Date
SB-1-SW20-D0.5		07/17/2023 10:54
Lab ID	**Matrix**	**Quantity of Containers**
BEG0118-37	Soil	2

Analysis	Units	TAT
EPA 6020	mg/kg	3

Client ID		Sample Date
SB-1-SW20-D2.0		07/17/2023 10:56
Lab ID	**Matrix**	**Quantity of Containers**
BEG0118-38	Soil	2

Analysis	Units	TAT
EPA 6020	mg/kg	3

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Parsons	AETL Job Number:	BEG0118	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LAUSD Canoga	Reported:	08/15/2023 13:45	

Samples Received
(Continued)

AETL received the following samples on 07/17/2023 with the following specifications

Client ID		Sample Date
SB-1-SW20-D3.0		07/17/2023 10:59
Lab ID	**Matrix**	**Quantity of Containers**
BEG0118-39	Soil	1

Analysis	Units	TAT
Archive	N/A	0

Client ID		Sample Date
SB-3-S15-D0.5		07/17/2023 11:03
Lab ID	**Matrix**	**Quantity of Containers**
BEG0118-40	Soil	3

Analysis	Units	TAT
EPA 6010B	mg/kg	3
EPA 6010B-1311 TCLP	mg/L	5
EPA 6010B-STLC	mg/L	5
STLC Extraction	N/A	5
TCLP Extraction	N/A	5

Client ID		Sample Date
SB-3-S15-D2.0		07/17/2023 11:05
Lab ID	**Matrix**	**Quantity of Containers**
BEG0118-41	Soil	1

Analysis	Units	TAT
EPA 6010B	mg/kg	5

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Parsons	AETL Job Number:	BEG0118	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LAUSD Canoga	Reported:	08/15/2023 13:45	

Samples Received
(Continued)

AETL received the following samples on 07/17/2023 with the following specifications

Client ID		Sample Date
SB-3-S15-D3.0		07/17/2023 11:08
Lab ID	**Matrix**	**Quantity of Containers**
BEG0118-42	Soil	1

Analysis	Units	TAT
Archive	N/A	0

Client ID		Sample Date
SB-3-S10-D0.5		07/17/2023 11:11
Lab ID	**Matrix**	**Quantity of Containers**
BEG0118-43	Soil	2

Analysis	Units	TAT
EPA 6010B	mg/kg	3
EPA 6010B-1311 TCLP	mg/L	3
EPA 6010B-STLC	mg/L	3
STLC Extraction	N/A	3
TCLP Extraction	N/A	3

Client ID		Sample Date
SB-3-S10-D0.5Dup		07/17/2023 11:13
Lab ID	**Matrix**	**Quantity of Containers**
BEG0118-44	Soil	2

Analysis	Units	TAT
EPA 6010B	mg/kg	3
EPA 6010B-STLC	mg/L	3
STLC Extraction	N/A	3

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Parsons	AETL Job Number:	BEG0118	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LAUSD Canoga	Reported:	08/15/2023 13:45	

Samples Received
(Continued)

AETL received the following samples on 07/17/2023 with the following specifications

Client ID		Sample Date
SB-3-S10-D2.0		07/17/2023 11:15
Lab ID	**Matrix**	**Quantity of Containers**
BEG0118-45	Soil	3

Analysis	Units	TAT
EPA 6010B	mg/kg	3

Client ID		Sample Date
SB-3-S10-D3.0		07/17/2023 11:17
Lab ID	**Matrix**	**Quantity of Containers**
BEG0118-46	Soil	1

Analysis	Units	TAT
Archive	N/A	0

Client ID		Sample Date
SB-51-SW10-D0.5		07/17/2023 11:45
Lab ID	**Matrix**	**Quantity of Containers**
BEG0118-47	Soil	3

Analysis	Units	TAT
EPA 6010B-1311 TCLP	mg/L	3
EPA 6010B-STLC	mg/L	3
EPA 6020	mg/kg	3
STLC Extraction	N/A	3
TCLP Extraction	N/A	3

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Parsons	AETL Job Number:	BEG0118	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LAUSD Canoga	Reported:	08/15/2023 13:45	

Samples Received

(Continued)

AETL received the following samples on 07/17/2023 with the following specifications

Client ID		Sample Date
SB-51-SW10-D2.0		07/17/2023 11:46
Lab ID	**Matrix**	**Quantity of Containers**
BEG0118-48	Soil	3

Analysis	Units	TAT
EPA 6010B-1311 TCLP	mg/L	5
EPA 6010B-STLC	mg/L	5
EPA 6020	mg/kg	3
STLC Extraction	N/A	5
TCLP Extraction	N/A	5

Client ID		Sample Date
SB-51-SW10-D3.0		07/17/2023 11:47
Lab ID	**Matrix**	**Quantity of Containers**
BEG0118-49	Soil	2

Analysis	Units	TAT
EPA 6010B-1311 TCLP	mg/L	5
EPA 6010B-STLC	mg/L	5
EPA 6020	mg/kg	5
STLC Extraction	N/A	5
TCLP Extraction	N/A	5

Client ID		Sample Date
SB-51-S10-D0.5		07/17/2023 12:01
Lab ID	**Matrix**	**Quantity of Containers**
BEG0118-50	Soil	2

Analysis	Units	TAT
EPA 6020	mg/kg	3

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Parsons	AETL Job Number:	BEG0118	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LAUSD Canoga	Reported:	08/15/2023 13:45	

Samples Received
(Continued)

AETL received the following samples on 07/17/2023 with the following specifications

Client ID		Sample Date
SB-51-S10-D2.0		07/17/2023 12:02
Lab ID	**Matrix**	**Quantity of Containers**
BEG0118-51	Soil	2

Analysis	Units	TAT
EPA 6020	mg/kg	3

Client ID		Sample Date
SB-51-S10-D3.0		07/17/2023 12:03
Lab ID	**Matrix**	**Quantity of Containers**
BEG0118-52	Soil	1

Analysis	Units	TAT
Archive	N/A	0

Client ID		Sample Date
SB-51-SE10-D0.5		07/17/2023 12:11
Lab ID	**Matrix**	**Quantity of Containers**
BEG0118-53	Soil	2

Analysis	Units	TAT
EPA 6020	mg/kg	3

Client ID		Sample Date
SB-51-SE10-D0.5Dup		07/17/2023 12:11
Lab ID	**Matrix**	**Quantity of Containers**
BEG0118-54	Soil	2

Analysis	Units	TAT
EPA 6020	mg/kg	3

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Rev. 01

Parsons	AETL Job Number:	BEG0118	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LAUSD Canoga	Reported:	08/15/2023 13:45	

Samples Received
(Continued)

AETL received the following samples on 07/17/2023 with the following specifications

Client ID		Sample Date
SB-51-SE10-D2.0		07/17/2023 12:12
Lab ID	**Matrix**	**Quantity of Containers**
BEG0118-55	Soil	2

Analysis	Units	TAT
EPA 6020	mg/kg	3

Client ID		Sample Date
SB-51-SE10-D3.0		07/17/2023 12:13
Lab ID	**Matrix**	**Quantity of Containers**
BEG0118-56	Soil	1

Analysis	Units	TAT
Archive	N/A	0

Client ID		Sample Date
SB-51-SW10-D0.5		07/17/2023 12:23
Lab ID	**Matrix**	**Quantity of Containers**
BEG0118-57	Soil	1

Analysis	Units	TAT
Archive	N/A	0

Client ID		Sample Date
SB-51-SW10-D2.0		07/17/2023 12:26
Lab ID	**Matrix**	**Quantity of Containers**
BEG0118-58	Soil	1

Analysis	Units	TAT
Archive	N/A	0

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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEG0118 [none] Justin King LAUSD Canoga	Site: Reported:	Canoga Park High School 6850 CA-27 Canoga Park, CA 91303 08/15/2023 13:45	

Samples Received
(Continued)

AETL received the following samples on 07/17/2023 with the following specifications

Client ID		Sample Date
SB-51-SW10-D3.0		07/17/2023 12:30
Lab ID	**Matrix**	**Quantity of Containers**
BEG0118-59	Soil	1

Analysis	Units	TAT
Archive	N/A	0

Client ID		Sample Date
SB-44-S20-D0.5		07/17/2023 12:50
Lab ID	**Matrix**	**Quantity of Containers**
BEG0118-60	Soil	2

Analysis	Units	TAT
EPA 6020	mg/kg	3

Client ID		Sample Date
SB-44-S20-D2.0		07/17/2023 12:51
Lab ID	**Matrix**	**Quantity of Containers**
BEG0118-61	Soil	3

Analysis	Units	TAT
EPA 6010B-STLC	mg/L	5
EPA 6020	mg/kg	3
STLC Extraction	N/A	5

Client ID		Sample Date
SB-44-S20-D3.0		07/17/2023 12:52
Lab ID	**Matrix**	**Quantity of Containers**
BEG0118-62	Soil	2

Analysis	Units	TAT
EPA 6020	mg/kg	5

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Parsons	AETL Job Number:	BEG0118	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LAUSD Canoga	Reported:	08/15/2023 13:45	

Samples Received
(Continued)

AETL received the following samples on 07/17/2023 with the following specifications

Client ID		Sample Date
SB-44-N20-D0.5		07/17/2023 13:01
Lab ID	**Matrix**	**Quantity of Containers**
BEG0118-63	Soil	2

Analysis	Units	TAT
EPA 6020	mg/kg	3

Client ID		Sample Date
SB-44-N20-D2.0		07/17/2023 13:04
Lab ID	**Matrix**	**Quantity of Containers**
BEG0118-64	Soil	2

Analysis	Units	TAT
EPA 6010B-STLC	mg/L	5
EPA 6020	mg/kg	3
STLC Extraction	N/A	5

Client ID		Sample Date
SB-44-N20-D3.0		07/17/2023 13:06
Lab ID	**Matrix**	**Quantity of Containers**
BEG0118-65	Soil	2

Analysis	Units	TAT
EPA 6020	mg/kg	5

Total Number of Samples received: 65

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Rev. 01

Parsons	AETL Job Number:	BEG0118	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LAUSD Canoga	Reported:	08/15/2023 13:45	

Positive Hits Summary

Lab ID	Client ID				Sampled
BEG0118-40	SB-3-S15-D0.5				07/17/2023 11:03
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	108		mg/kg	07/26/2023 13:36

Lab ID	Client ID				Sampled
BEG0118-41	SB-3-S15-D2.0				07/17/2023 11:05
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	3.58	J	mg/kg	07/31/2023 12:32

Lab ID	Client ID				Sampled
BEG0118-43	SB-3-S10-D0.5				07/17/2023 11:11
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	139		mg/kg	07/19/2023 11:08

Lab ID	Client ID				Sampled
BEG0118-44	SB-3-S10-D0.5Dup				07/17/2023 11:13
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	99.3		mg/kg	07/19/2023 11:10

Lab ID	Client ID				Sampled
BEG0118-45	SB-3-S10-D2.0				07/17/2023 11:15
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	4.16	J	mg/kg	07/26/2023 13:39

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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEG0118 [none] Justin King LAUSD Canoga	Site: Reported:	Canoga Park High School 6850 CA-27 Canoga Park, CA 91303 08/15/2023 13:45	

Analytical Results

Client ID: SB-3-S15-D0.5
Lab ID: BEG0118-40 (Soil) **Sampled: 07/17/23 11:03**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Lead	**108**		1	0.550	5.00	mg/kg	07/24/23 15:06	07/26/23 13:36	B3G0333	LE	3050B

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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEG0118 [none] Justin King LAUSD Canoga	Site: Reported:	Canoga Park High School 6850 CA-27 Canoga Park, CA 91303 08/15/2023 13:45	

Analytical Results

Client ID: SB-3-S15-D2.0
Lab ID: BEG0118-41 (Soil) **Sampled: 07/17/23 11:05**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Lead	**3.58**	J	1	0.550	5.00	mg/kg	07/28/23 10:05	07/31/23 12:32	B3G0396	LC	3050B

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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEG0118 [none] Justin King LAUSD Canoga	Site: Reported:	Canoga Park High School 6850 CA-27 Canoga Park, CA 91303 08/15/2023 13:45	

Analytical Results

Client ID: **SB-3-S10-D0.5**
Lab ID: **BEG0118-43 (Soil)** **Sampled:** **07/17/23 11:11**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Lead	**139**		1	0.550	5.00	mg/kg	07/18/23 08:20	07/19/23 11:08	B3G0210	LC	3050B

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Parsons	AETL Job Number:	BEG0118	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LAUSD Canoga	Reported:	08/15/2023 13:45	

Analytical Results

Client ID: **SB-3-S10-D0.5Dup**
Lab ID: **BEG0118-44 (Soil)** **Sampled:** **07/17/23 11:13**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Lead	**99.3**		1	0.550	5.00	mg/kg	07/18/23 08:20	07/19/23 11:10	B3G0210	LC	3050B

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AMERICAN ENVIRONMENTAL TESTING LABORATORY
2840 North Naomi Street Burbank, CA 91504 • ELAP# 1541 & 2402 • LACSD# 10181
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Rev. 01

Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEG0118 [none] Justin King LAUSD Canoga	Site: Reported:	Canoga Park High School 6850 CA-27 Canoga Park, CA 91303 08/15/2023 13:45	

Analytical Results

Client ID: **SB-3-S10-D2.0**
Lab ID: **BEG0118-45 (Soil)** **Sampled:** **07/17/23 11:15**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Lead	**4.16**	J	1	0.550	5.00	mg/kg	07/24/23 15:06	07/26/23 13:39	B3G0333	LE	3050B

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Parsons	AETL Job Number:	BEG0118	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LAUSD Canoga	Reported:	08/15/2023 13:45	

Quality Control Results

Metals Total (EPA 6010B)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3G0210 - 3050B					**Prepared: 07/18/2023 08:20**						
Method Blank (B3G0210-BLK1)					**Analyzed: 07/18/2023 14:26**						
Lead	ND	0.550	5.00	mg/kg							

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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEG0118 [none] Justin King LAUSD Canoga	Site: Reported:	Canoga Park High School 6850 CA-27 Canoga Park, CA 91303 08/15/2023 13:45	

Quality Control Results

Metals Total (EPA 6010B)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3G0210 - 3050B (Continued)					**Prepared: 07/18/2023 08:20**						
LCS (B3G0210-BS1)					**Analyzed: 07/18/2023 14:29**						
Lead	94.0	0.550	5.00	mg/kg	96.2		97.8	75-125			
LCSD (B3G0210-BSD1)					**Analyzed: 07/18/2023 14:32**						
Lead	95.4	0.550	5.00	mg/kg	97.1		98.3	75-125	1.44	15	
Duplicate (B3G0210-DUP1)		**Source: BEG0117-01**			**Analyzed: 07/18/2023 14:38**						
Lead	2.90	0.550	5.00	mg/kg		3.49			18.5	20	J
Matrix Spike (B3G0210-MS1)		**Source: BEG0117-01**			**Analyzed: 07/18/2023 14:41**						
Lead	97.4	0.550	5.00	mg/kg	99.0	3.49	94.8	75-125			
Matrix Spike Dup (B3G0210-MSD1)		**Source: BEG0117-01**			**Analyzed: 07/18/2023 14:43**						
Lead	95.3	0.550	5.00	mg/kg	99.0	3.49	92.7	75-125	2.16	15	
Batch: B3G0333 - 3050B					**Prepared: 07/25/2023 09:06**						
Method Blank (B3G0333-BLK1)					**Analyzed: 07/26/2023 13:15**						
Lead	ND	0.550	5.00	mg/kg							

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Parsons	AETL Job Number:	BEG0118	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LAUSD Canoga	Reported:	08/15/2023 13:45	

Quality Control Results

Metals Total (EPA 6010B)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3G0333 - 3050B (Continued)					**Prepared: 07/25/2023 09:06**						
LCS (B3G0333-BS1)					**Analyzed: 07/26/2023 13:18**						
Lead	97.2	0.550	5.00	mg/kg	97.1		100	75-125			
LCSD (B3G0333-BSD1)					**Analyzed: 07/26/2023 13:21**						
Lead	99.6	0.550	5.00	mg/kg	99.0		101	75-125	2.42	15	
Duplicate (B3G0333-DUP1)		**Source: BEG0189-01**			**Analyzed: 07/26/2023 13:27**						
Lead	1.82	0.550	5.00	mg/kg		1.59			13.6	20	J
Matrix Spike (B3G0333-MS1)		**Source: BEG0189-01**			**Analyzed: 07/26/2023 13:30**						
Lead	98.5	0.550	5.00	mg/kg	99.0	1.59	97.9	75-125			
Matrix Spike Dup (B3G0333-MSD1)		**Source: BEG0189-01**			**Analyzed: 07/26/2023 13:33**						
Lead	91.6	0.550	5.00	mg/kg	99.0	1.59	90.9	75-125	7.29	15	
Batch: B3G0396 - 3050B					**Prepared: 07/28/2023 08:31**						
Method Blank (B3G0396-BLK1)					**Analyzed: 07/31/2023 11:31**						
Lead	ND	0.550	5.00	mg/kg							

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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEG0118 [none] Justin King LAUSD Canoga	Site: Reported:	Canoga Park High School 6850 CA-27 Canoga Park, CA 91303 08/15/2023 13:45	

Quality Control Results

Metals Total (EPA 6010B)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3G0396 - 3050B (Continued)					**Prepared: 07/28/2023 08:31**						
LCS (B3G0396-BS1)					**Analyzed: 07/31/2023 11:34**						
Lead	96.5	0.550	5.00	mg/kg	96.2		100	75-125			
LCSD (B3G0396-BSD1)					**Analyzed: 07/31/2023 11:37**						
Lead	96.6	0.550	5.00	mg/kg	97.1		99.4	75-125	<1.00	15	
Duplicate (B3G0396-DUP1)		**Source: BEG0220-09**			**Analyzed: 07/31/2023 11:43**						
Lead	14.6	0.550	5.00	mg/kg		13.7			5.86	20	
Matrix Spike (B3G0396-MS1)		**Source: BEG0220-09**			**Analyzed: 07/31/2023 11:46**						
Lead	106	0.550	5.00	mg/kg	99.0	13.7	92.9	75-125			
Matrix Spike Dup (B3G0396-MSD1)		**Source: BEG0220-09**			**Analyzed: 07/31/2023 11:49**						
Lead	104	0.550	5.00	mg/kg	99.0	13.7	91.3	75-125	1.55	15	

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Parsons	AETL Job Number:	BEG0118	Site:	Canoga Park High School
100 West Walnut Street	Project Number:	[none]		6850 CA-27
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303
	Project Name:	LAUSD Canoga	Reported:	08/15/2023 13:45

Qualifiers and Definitions

Item	Qualifiers
J	Analyte was detected. However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Reporting Limit (RL).

Item	Definitions
% wt	Percent Weight
%REC	Percent Recovery
°F	Degrees Fahrenheit
AETL	American Environmental Testing Laboratory, LLC
C	Carbon
CARB	California Air Resources Board
COC	Chain of Custody
Cresols	3-methylphenol/4-methylphenol coelute and cannot be chromatographically separated. Due to this coeluting isomer pair phenomenon, the laboratory uses a single cresol (4-methylphenol) as calibration standard for 3-methylphenol/4-methylphenol.
CRM	Certified Reference Material
DI	Deionized Water
DPD	Department of Planning and Development
DRO	Diesel Range Organics
Dup	Duplicate
ELAP	Environmental Laboratory Accreditation Program
EPA	Environmental Protection Agency
GC/FID	Gas Chromatography Flame Ionization Detection
GRO	Gasoline Range Organics
HC	Hydrocarbon
HEM	Hexane Extractable Material
HMU	Hazardous Material Unit
ICP/MS	Inductively Coupled Plasma Mass Spectrometry
LACSD	Los Angeles County Sanitation Districts
LCS	Laboratory Control Sample - A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes.
LCSD	Laboratory Control Sample Duplicate - A replicate of Laboratory Control Sample.
LOQ	Limit of Quantitation
MDL	Method Detection Limit - The minimum measured concentration of a substance that can be reported with 99% confidence. MDL is statistically derived number which is specific for each instrument, each method and each compound.
mg/kg	Miligrams per Kilogram
mg/L	Miligrams per Liter
ml/L/hr	Milliliter per Liter per Hour
MRO	Motor oil Range Organics

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Parsons	AETL Job Number:	BEG0118	Site:	Canoga Park High School
100 West Walnut Street	Project Number:	[none]		6850 CA-27
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303
	Project Name:	LAUSD Canoga	Reported:	08/15/2023 13:45

MS	Matrix Spike - A sample prepared, taken through all sample preparation and analytical steps of the procedure and analyzed as an independent test results.
MSD	Matrix Spike Duplicate - A replicate of Matrix Spike Sample.
N	No
ND	Analyte is not detected below Method Detection Limit.
ng/m3	Nanograms per cubic meter
NIOSH	National Institute for Occupational Safety and Health
nL/L	Nanoliters per Liter
NTU	Nephelometric Turbidity Units
Ohm-cm	Ohms per centimeter
ORO	Oil Range Organics
OSHA	Occupational Safety and Health Administration
PCB	Polychlorinated Biphenyl
ppb v	Parts per billion by volume
ppmC	Parts per million Carbon
PSU	Practical Salinity Unit
RL	Reporting Limit - The lowest concentration at which an analyte can be detected in a sample and its concentration can be reported with a specified degree of confidence, accuracy and precision. For usage at AETL, RL is equivalant to LOQ.
RPD	Relative Percent Difference
SIM	Selective Ion Monitoring
SM	Standard Method
SPLP	Synthetic Precipitation Leaching Procedure
STLC	Soluble Threshold Limit Concentration
TCLP	Toxicity Characteristic Leaching Procedure
TPH	Total Petroleum Hydrocarbons
TTLC	Total Threshold Limit Concentrations
ug/kg	Micrograms per Kilogram
ug/L	Micrograms per Liter
ug/m3	Micrograms per cubic meter
WET	Waste Extraction Test
Y	Yes
ZHE	Zero Headspace Extraction

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July 21, 2023

Hailley Coleman
American Environmental Testing Laboratory, Inc.
2834 N. Naomi Street
Burbank, CA 91504

TEL: (818) 845-8200
FAX:

Workorder No.: N057832

RE: BEG0118

Attention: Hailley Coleman

Enclosed are the results for sample(s) received on July 18, 2023 by ASSET Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562) 219-7435 if I can be of further assistance to your company.

Sincerely,

for

Ferdinand Paul Lugtu
Laboratory Director

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CLIENT: American Environmental Testing Laborator
Project: BEG0118
Lab Order: N057832

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

All sample containers were received intact with proper chain of custody documentation.

Information on sample receipt conditions including discrepancies can be found in attached Sample Receipt Checklist Form.

Cooler temperature and sample preservation were verified upon receipt of samples if applicable.

Samples were analyzed within method holding time.

Analytical Comments for EPA 6020:

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria possibly due to matrix interference. The associated Laboratory Control Sample (LCS) recovery was acceptable.

CLIENT: American Environmental Testing Laborator
Project: BEG0118
Lab Order: N057832
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N057832-001A	BEG0118-01	Soil	7/17/2023 7:20:00 AM	7/18/2023	7/21/2023
N057832-002A	BEG0118-02	Soil	7/17/2023 7:46:00 AM	7/18/2023	7/21/2023
N057832-003A	BEG0118-05	Soil	7/17/2023 8:14:00 AM	7/18/2023	7/21/2023
N057832-004A	BEG0118-08	Soil	7/17/2023 8:23:00 AM	7/18/2023	7/21/2023
N057832-005A	BEG0118-11	Soil	7/17/2023 8:23:00 AM	7/18/2023	7/21/2023
N057832-006A	BEG0118-12	Soil	7/17/2023 8:42:00 AM	7/18/2023	7/21/2023
N057832-007A	BEG0118-18	Soil	7/17/2023 9:28:00 AM	7/18/2023	7/21/2023
N057832-008A	BEG0118-21	Soil	7/17/2023 9:46:00 AM	7/18/2023	7/21/2023
N057832-009A	BEG0118-24	Soil	7/17/2023 9:05:00 AM	7/18/2023	7/21/2023
N057832-010A	BEG0118-27	Soil	7/17/2023 10:05:00 AM	7/18/2023	7/21/2023
N057832-011A	BEG0118-30	Soil	7/17/2023 10:15:00 AM	7/18/2023	7/21/2023
N057832-012A	BEG0118-33	Soil	7/17/2023 10:17:00 AM	7/18/2023	7/21/2023
N057832-013A	BEG0118-34	Soil	7/17/2023 10:46:00 AM	7/18/2023	7/21/2023
N057832-014A	BEG0118-37	Soil	7/17/2023 10:54:00 AM	7/18/2023	7/21/2023
N057832-015A	BEG0118-47	Soil	7/17/2023 11:45:00 AM	7/18/2023	7/21/2023
N057832-016A	BEG0118-50	Soil	7/17/2023 12:01:00 PM	7/18/2023	7/21/2023
N057832-017A	BEG0118-53	Soil	7/17/2023 12:11:00 PM	7/18/2023	7/21/2023
N057832-018A	BEG0118-54	Soil	7/17/2023 12:11:00 PM	7/18/2023	7/21/2023
N057832-019A	BEG0118-60	Soil	7/17/2023 12:50:00 PM	7/18/2023	7/21/2023
N057832-020A	BEG0118-63	Soil	7/17/2023 1:01:00 PM	7/18/2023	7/21/2023

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEG0118-01
Lab Order:	N057832		
Project:	BEG0118	**Collection Date:**	7/17/2023 7:20:00 AM
Lab ID:	N057832-001	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
EPA 3050B			**EPA 6020**			
RunID: NV00922-ICP7_230719A	QC Batch: 100890			PrepDate:	7/19/2023	Analyst: **DJ**
Arsenic	8.8	0.50		mg/Kg	1	7/19/2023 05:58 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEG0118-02
Lab Order:	N057832		
Project:	BEG0118	**Collection Date:**	7/17/2023 7:46:00 AM
Lab ID:	N057832-002	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP7_230719A	QC Batch: 100890			PrepDate:	7/19/2023	Analyst: **DJ**
Arsenic	200	2.5		mg/Kg	5	7/19/2023 08:20 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEG0118-05
Lab Order:	N057832		
Project:	BEG0118	**Collection Date:**	7/17/2023 8:14:00 AM
Lab ID:	N057832-003	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP7_230719A	QC Batch: 100890			PrepDate:	7/19/2023	Analyst: **DJ**
Arsenic	58	0.50		mg/Kg	1	7/19/2023 06:27 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEG0118-08
Lab Order:	N057832		
Project:	BEG0118	**Collection Date:**	7/17/2023 8:23:00 AM
Lab ID:	N057832-004	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP7_230719A	QC Batch: 100890			PrepDate:	7/19/2023	Analyst: **DJ**
Arsenic	85	0.50		mg/Kg	1	7/19/2023 06:46 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEG0118-11
Lab Order:	N057832		
Project:	BEG0118	**Collection Date:**	7/17/2023 8:23:00 AM
Lab ID:	N057832-005	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP7_230719A	QC Batch: 100890			PrepDate:	7/19/2023	Analyst: **DJ**
Arsenic	87	0.50		mg/Kg	1	7/19/2023 06:50 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEG0118-12
Lab Order:	N057832		
Project:	BEG0118	**Collection Date:**	7/17/2023 8:42:00 AM
Lab ID:	N057832-006	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP7_230719A	QC Batch: 100890			PrepDate:	7/19/2023	Analyst: **DJ**
Arsenic	110	2.5		mg/Kg	5	7/19/2023 08:44 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEG0118-18
Lab Order:	N057832		
Project:	BEG0118	**Collection Date:**	7/17/2023 9:28:00 AM
Lab ID:	N057832-007	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
EPA 3050B				**EPA 6020**		
RunID: NV00922-ICP7_230719A	QC Batch: 100890			PrepDate:	7/19/2023	Analyst: **DJ**
Arsenic	6.5	0.50		mg/Kg	1	7/19/2023 07:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEG0118-21
Lab Order:	N057832		
Project:	BEG0118	**Collection Date:**	7/17/2023 9:46:00 AM
Lab ID:	N057832-008	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
EPA 3050B				**EPA 6020**		
RunID: NV00922-ICP7_230719A	QC Batch: 100890			PrepDate:	7/19/2023	Analyst: **DJ**
Arsenic	7.3	0.50		mg/Kg	1	7/19/2023 07:05 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEG0118-24
Lab Order:	N057832		
Project:	BEG0118	**Collection Date:**	7/17/2023 9:05:00 AM
Lab ID:	N057832-009	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP7_230719A	QC Batch: 100890			PrepDate:	7/19/2023	Analyst: **DJ**
Arsenic	3.5	0.50		mg/Kg	1	7/19/2023 07:09 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEG0118-27
Lab Order:	N057832		
Project:	BEG0118	**Collection Date:**	7/17/2023 10:05:00 AM
Lab ID:	N057832-010	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
EPA 3050B				**EPA 6020**		
RunID: NV00922-ICP7_230719A	QC Batch: 100890			PrepDate:	7/19/2023	Analyst: **DJ**
Arsenic	29	0.50		mg/Kg	1	7/19/2023 07:14 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEG0118-30
Lab Order:	N057832		
Project:	BEG0118	**Collection Date:**	7/17/2023 10:15:00 AM
Lab ID:	N057832-011	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP7_230719A	QC Batch: 100890			PrepDate:	7/19/2023	Analyst: **DJ**
Arsenic	150	2.5		mg/Kg	5	7/19/2023 08:49 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEG0118-33
Lab Order:	N057832		
Project:	BEG0118	**Collection Date:**	7/17/2023 10:17:00 AM
Lab ID:	N057832-012	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP7_230719A	QC Batch: 100890			PrepDate:	7/19/2023	Analyst: **DJ**
Arsenic	160	2.5		mg/Kg	5	7/19/2023 08:53 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEG0118-34
Lab Order:	N057832		
Project:	BEG0118	**Collection Date:**	7/17/2023 10:46:00 AM
Lab ID:	N057832-013	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
EPA 3050B				**EPA 6020**		
RunID: NV00922-ICP7_230719A	QC Batch: 100890			PrepDate:	7/19/2023	Analyst: **DJ**
Arsenic	12	0.50		mg/Kg	1	7/19/2023 07:42 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEG0118-37
Lab Order:	N057832		
Project:	BEG0118	**Collection Date:**	7/17/2023 10:54:00 AM
Lab ID:	N057832-014	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP7_230719A	QC Batch: 100890			PrepDate:	7/19/2023	Analyst: **DJ**
Arsenic	27	0.50		mg/Kg	1	7/19/2023 07:47 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEG0118-47
Lab Order:	N057832		
Project:	BEG0118	**Collection Date:**	7/17/2023 11:45:00 AM
Lab ID:	N057832-015	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP7_230719A	QC Batch: 100890			PrepDate:	7/19/2023	Analyst: **DJ**
Arsenic	630	12		mg/Kg	25	7/19/2023 08:58 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEG0118-50
Lab Order:	N057832		
Project:	BEG0118	**Collection Date:**	7/17/2023 12:01:00 PM
Lab ID:	N057832-016	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP7_230719A	QC Batch: 100890			PrepDate:	7/19/2023	Analyst: **DJ**
Arsenic	19	0.50		mg/Kg	1	7/19/2023 07:57 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEG0118-53
Lab Order:	N057832		
Project:	BEG0118	**Collection Date:**	7/17/2023 12:11:00 PM
Lab ID:	N057832-017	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
EPA 3050B				**EPA 6020**		
RunID: NV00922-ICP7_230719A	QC Batch: 100890			PrepDate:	7/19/2023	Analyst: **DJ**
Arsenic	12	0.50		mg/Kg	1	7/19/2023 08:01 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEG0118-54
Lab Order:	N057832		
Project:	BEG0118	**Collection Date:**	7/17/2023 12:11:00 PM
Lab ID:	N057832-018	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP7_230719A	QC Batch: 100890			PrepDate:	7/19/2023	Analyst: **DJ**
Arsenic	10	0.50		mg/Kg	1	7/19/2023 08:06 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEG0118-60
Lab Order:	N057832		
Project:	BEG0118	**Collection Date:**	7/17/2023 12:50:00 PM
Lab ID:	N057832-019	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP7_230719A	QC Batch: 100890			PrepDate:	7/19/2023	Analyst: **DJ**
Arsenic	30	0.50		mg/Kg	1	7/19/2023 08:11 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEG0118-63
Lab Order:	N057832		
Project:	BEG0118	**Collection Date:**	7/17/2023 1:01:00 PM
Lab ID:	N057832-020	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP7_230719A	QC Batch: 100890			PrepDate:	7/19/2023	Analyst: **DJ**
Arsenic	45	0.50		mg/Kg	1	7/19/2023 08:16 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: American Environmental Testing Laboratory, Inc.
Work Order: N057832
Project: BEG0118

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_S_PPM

Sample ID: **MB-100890**	SampType: **MBLK**	TestCode: **6020_S_PPM**	Units: **mg/Kg**	Prep Date: **7/19/2023**	RunNo: **174027**
Client ID: **PBS**	Batch ID: **100890**	TestNo: **EPA 6020**	**EPA 3050B**	Analysis Date: **7/19/2023**	SeqNo: **5289933**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.50									

Sample ID: **LCS-100890**	SampType: **LCS**	TestCode: **6020_S_PPM**	Units: **mg/Kg**	Prep Date: **7/19/2023**	RunNo: **174027**
Client ID: **LCSS**	Batch ID: **100890**	TestNo: **EPA 6020**	**EPA 3050B**	Analysis Date: **7/19/2023**	SeqNo: **5289934**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	4.837	0.50	5.000	0	96.7	85	115				

Sample ID: **N057832-001A-MS**	SampType: **MS**	TestCode: **6020_S_PPM**	Units: **mg/Kg**	Prep Date: **7/19/2023**	RunNo: **174027**
Client ID: **ZZZZZZ**	Batch ID: **100890**	TestNo: **EPA 6020**	**EPA 3050B**	Analysis Date: **7/19/2023**	SeqNo: **5289938**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	11.299	0.50	4.978	8.764	50.9	75	125				S

Sample ID: **N057832-001A-MSD**	SampType: **MSD**	TestCode: **6020_S_PPM**	Units: **mg/Kg**	Prep Date: **7/19/2023**	RunNo: **174027**
Client ID: **ZZZZZZ**	Batch ID: **100890**	TestNo: **EPA 6020**	**EPA 3050B**	Analysis Date: **7/19/2023**	SeqNo: **5289939**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	11.283	0.50	4.990	8.764	50.5	75	125	11.30	0.138	20	S

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

AETL01 C: 7/21/2023 12:00 AM
FOLDER R: 7/18/2023
1 of 1

AMERICAN ENVIRONMENTAL TES
rbank, CA 9150

SUBC T CT CH I of CUSTODY

Sending Laboratory:

AETL
AETL, LLC. 2840 N. Naomi Street
Burbank, CA 91504
Phone: 818-845-8200

Project Manager: Hailley Coleman
Email: hcoleman@aetlab.com

Subcontracted Laboratory:

ASSET Laboratories
11110 Artesia Blvd.
Cerritos, CA 90703
Phone: (702)307-2659
Fax: (562)219-7435

Work Order: BEG0118 PO #SUB-35627

Analysis	Due	Expires	Comments
Sample ID: BEG0118-01 *Soil* *Sampled: 07/17/2023 07:20*			2-DAY RUSH
6020-As (Arsenic, total by ICP/MS)	07/20/2023	01/13/2024 07:20	
Containers Supplied:			
Sample ID: BEG0118-02 *Soil* *Sampled: 07/17/2023 07:46*			
6020-As (Arsenic, total by ICP/MS)	07/20/2023	01/13/2024 07:46	
Containers Supplied:			
Sample ID: BEG0118-05 *Soil* *Sampled: 07/17/2023 08:14*			
6020-As (Arsenic, total by ICP/MS)	07/20/2023	01/13/2024 08:14	
Containers Supplied:			
Sample ID: BEG0118-08 *Soil* *Sampled: 07/17/2023 08:23*			
6020-As (Arsenic, total by ICP/MS)	07/20/2023	01/13/2024 08:23	
Containers Supplied:			
Sample ID: BEG0118-11 *Soil* *Sampled: 07/17/2023 08:23*			
6020-As (Arsenic, total by ICP/MS)	07/20/2023	01/13/2024 08:23	

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COC #: 7745

Approved by: HAILLE COLEMAN 7/18/23
A c B Date

Release ETL Sample n rol Date Received By Courier Date

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Re ed By Courier Date
KIM SAN ANTONIO 7/18/23 17:00

KIM SAN ANTONIO 7/18/23
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AMERICAN ENVIRONMENTAL TESTING LABORATORY, LC
2640 North Naomi Street, Burbank, CA 91504 • ELAP# 1541 • LACSD# 10181
Telephone (888) 288-AETL • (818) 845-8200 • www.aetlab.com

SUBCO TR CT CH of CUSTODY
(Continued)

Work Order: BEG0118 (Continued)

Analysis	Due	Expires	Comments	
Containers Supplied:				
Sample ID: BEG0118-12 *Soil Sampled: 07/17/2023 08:42*				N057832-006
6020-As (Arsenic, total by ICP/MS)	07/20/2023	01/13/2024 08:42		
Containers Supplied:				
Sample ID: BEG0118-18 *Soil Sampled: 07/17/2023 09:28*				-007
6020-As (Arsenic, total by ICP/MS)	07/20/2023	01/13/2024 09:28		
Containers Supplied:				
Sample ID: BEG0118-21 *Soil Sampled: 07/17/2023 09:46*				-008
6020-As (Arsenic, total by ICP/MS)	07/20/2023	01/13/2024 09:46		
Containers Supplied:				
Sample ID: BEG0118-24 *Soil Sampled: 07/17/2023 09:05*				-009
6020-As (Arsenic, total by ICP/MS)	07/20/2023	01/13/2024 09:05		
Containers Supplied:				
Sample ID: BEG0118-27 *Soil Sampled: 07/17/2023 10:05*				-010
6020-As (Arsenic, total by ICP/MS)	07/20/2023	01/13/2024 10:05		
Containers Supplied:				
Sample ID: BEG0118-30 *Soil Sampled: 07/17/2023 10:15*				-011
6020-As (Arsenic, total by ICP/MS)	07/20/2023	01/13/2024 10:15		

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AMERICAN ENVIRONMENTAL TESTING LABORATORY, LC
[redacted] North Naomi Street, Burbank, CA 91504 • ELAP# 1541 • LACSD# 10181
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SUBC TR CT CH I of CUSTODY
(Continued)

Work Order: BEG0118 (Continued)

Analysis	Due	Expires	Comments	
Containers Supplied:				
Sample ID: BEG0118-33 *Soil Sampled: 07/17/2023 10:17*				N057832-012
6020-As (Arsenic, total by ICP/MS)	07/20/2023	01/13/2024 10:17		
Containers Supplied:				
Sample ID: BEG0118-34 *Soil Sampled: 07/17/2023 10:46*				-013
6020-As (Arsenic, total by ICP/MS)	07/20/2023	01/13/2024 10:46		
Containers Supplied:				
Sample ID: BEG0118-37 *Soil Sampled: 07/17/2023 10:54*				-014
6020-As (Arsenic, total by ICP/MS)	07/20/2023	01/13/2024 10:54		
Containers Supplied:				
Sample ID: BEG0118-47 *Soil Sampled: 07/17/2023 11:45*				-015
6020-As (Arsenic, total by ICP/MS)	07/20/2023	01/13/2024 11:45		
Containers Supplied:				
Sample ID: BEG0118-50 *Soil Sampled: 07/17/2023 12:01*				-016
6020-As (Arsenic, total by ICP/MS)	07/20/2023	01/13/2024 12:01		
Containers Supplied:				
Sample ID: BEG0118-53 *Soil Sampled: 07/17/2023 12:11*				-017
6020-As (Arsenic, total by ICP/MS)	07/20/2023	01/13/2024 12:11		

Approved by: [redacted]

TLP a er [redacted] Date [redacted]

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Release By Courier Date [redacted] ece d B

KIM LANANTONIO 7/18/23 1700

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IR#1

AMERICAN ENVIRONMENTAL TESTING LABORATORY, LLC
2840 North Naomi Street, Burl 10181
Telephone (888) 288-AETL • (818) 845-8200 • www.aetlab.com

SUBCO T CT CH I of CUSTODY
(Continued)

Work Order: BEG0118 (Continued)

Analysis	Due	Expires	Comments	
Containers Supplied:				
Sample ID: BEG0118-54 *Soil Sampled: 07/17/2023 12:11*				N057832-018
6020-As (Arsenic, total by ICP/MS)	07/20/2023	01/13/2024 12:11		
Containers Supplied:				
Sample ID: BEG0118-60 *Soil Sampled: 07/17/2023 12:50*				-019
6020-As (Arsenic, total by ICP/MS)	07/20/2023	01/13/2024 12:50		
Containers Supplied:				
Sample ID: BEG0118-63 *Soil Sampled: 07/17/2023 13:01*				-020
6020-As (Arsenic, total by ICP/MS)	07/20/2023	01/13/2024 13:01		
Containers Supplied:				

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Rele sed By Courier Date Rec ed y Subcontract Lab atory Date

KIM SAN ANTONIO 7/18/23 1700 1610

ASSET Laboratories

Please review the checklist below. Any NO signifies non-compliance. Any non-compliance will be noted and must be understood as having an impact on the quality of the data. All tests will be performed as requested regardless of any compliance issues.

If you have any questions or further instruction, please contact our Project Coordinator at (702) 307-2659.

Cooler Received/Opened On:	7/18/2023	Workorder:	N057832
Rep sample Temp (Deg C):	4.6	IR Gun ID:	1
Temp Blank:	☐ Yes ☑ No		
Carrier name:	Walk-In		
Last 4 digits of Tracking No.:	NA	Packing Material Used:	None
Cooling process:	☑ Ice ☐ Ice Pack ☐ Dry Ice ☐ Other ☐ None		

Sample Receipt Checklist

1. Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
2. Custody seals intact, signed, dated on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
3. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
4. Chain of custody present?	Yes ☑	No ☐	
5. Sampler's name present in COC?	Yes ☐	No ☑	
6. Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
7. Chain of custody agrees with sample labels?	Yes ☑	No ☐	
8. Samples in proper container/bottle?	Yes ☑	No ☐	
9. Sample containers intact?	Yes ☑	No ☐	
10. Sufficient sample volume for indicated test?	Yes ☑	No ☐	
11. All samples received within holding time?	Yes ☑	No ☐	
12. Temperature of rep sample or Temp Blank within acceptable limit?	Yes ☑	No ☐	NA ☐
13. Water - VOA vials have zero headspace?	Yes ☐	No ☐	NA ☑
14. Water - pH acceptable upon receipt? Example: pH > 12 for (CN,S); pH<2 for Metals	Yes ☐	No ☐	NA ☑
15. Did the bottle labels indicate correct preservatives used?	Yes ☐	No ☐	NA ☑
16. Were there Non-Conformance issues at login?	Yes ☑	No ☐	NA ☐
Was Client notified?	Yes ☐	No ☐	NA ☑

Comments: Received at Las Vegas Lab on 07/19/23 at 2.9°C, IR#3, GSO#7745.

Checklist Completed By: FOR KS 7/19/2023

Reviewed By: for: MBC

ASSET Laboratories

WORK ORDER Summary

19-Jul-23

WorkOrder: N057832

Client ID: AETL01

Project: BEG0118 **QC Level:** RTNE **Date Received:** 7/18/2023 4:10 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N057832-001A	BEG0118-01	7/17/2023 7:20:00 AM	7/21/2023	Soil	EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			7/21/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057832-002A	BEG0118-02	7/17/2023 7:46:00 AM	7/21/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			7/21/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057832-003A	BEG0118-05	7/17/2023 8:14:00 AM	7/21/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			7/21/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057832-004A	BEG0118-08	7/17/2023 8:23:00 AM	7/21/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			7/21/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057832-005A	BEG0118-11		7/21/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			7/21/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057832-006A	BEG0118-12	7/17/2023 8:42:00 AM	7/21/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			7/21/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057832-007A	BEG0118-18	7/17/2023 9:28:00 AM	7/21/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			7/21/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057832-008A	BEG0118-21	7/17/2023 9:46:00 AM	7/21/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			7/21/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057832-009A	BEG0118-24	7/17/2023 9:05:00 AM	7/21/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			7/21/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057832-010A	BEG0118-27	7/17/2023 10:05:00 AM	7/21/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			7/21/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057832-011A	BEG0118-30	7/17/2023 10:15:00 AM	7/21/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			7/21/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS

ASSET Laboratories

WORK ORDER Summary

19-Jul-23

WorkOrder: N057832

Client ID: AETL01

Project: BEG0118 **QC Level:** RTNE **Date Received:** 7/18/2023 4:10 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N057832-012A	BEG0118-33	7/17/2023 10:17:00 AM	7/21/2023	Soil	EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			7/21/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057832-013A	BEG0118-34	7/17/2023 10:46:00 AM	7/21/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			7/21/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057832-014A	BEG0118-37	7/17/2023 10:54:00 AM	7/21/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			7/21/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057832-015A	BEG0118-47	7/17/2023 11:45:00 AM	7/21/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			7/21/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057832-016A	BEG0118-50	7/17/2023 12:01:00 PM	7/21/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			7/21/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057832-017A	BEG0118-53	7/17/2023 12:11:00 PM	7/21/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			7/21/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057832-018A	BEG0118-54		7/21/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			7/21/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057832-019A	BEG0118-60	7/17/2023 12:50:00 PM	7/21/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			7/21/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057832-020A	BEG0118-63	7/17/2023 1:01:00 PM	7/21/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			7/21/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N057832-021A	FOLDER	7/21/2023	7/21/2023		Folder	Folder	☐	☐	☐	LAB
			7/21/2023		Folder	Folder	☐	☐	☐	LAB

GLS

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www.gls-us.com

Ship From
ASSET LABORATORIES
THAD MALIT
11110 ARTESIA BLVD. SUITE B
CERRITOS, CA 90703

Ship To
ASSET LABORATORIES
MARLON CARTIN
3151 W. POST RD.,
LAS VEGAS, NV 89118

COD: $0.00
Weight: 0 lb(s)
Reference:

Delivery Instructions:
HOLD FOR PICKUP
Signature Type: STANDARD

Tracking #: 559787745

LAS VEGAS

D000060

Print Label ☐ Print All Finish

LABEL INSTRUCTIONS:

Do not copy or reprint this label for additional shipments - each package must have a unique barcode.
Step 1: Use the "Print Label" button on this page to print the shipping label on a laser or inkjet printer.
Step 2: Fold this page in half.
Step 3: Securely attach this label to your package and do not cover the barcode.

TERMS AND CONDITIONS:

By giving us your shipment to deliver, you agree to all of the General Logistics Systems US, Inc. (GLS) service terms & conditions including, but not limited to; limits of liability, declared value conditions, and claim procedures which are available on our website at www.gls-us.com.

2.9°C
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AMERICAN ENVIRONMENTAL TESTING LABORATORY, LLC
2840 North Naomi Street, Burbank, CA 91504 • ELAP# 1541 • LACSD# 10181
Telephone (888) 288-AETL • (818) 845-8200 • www.aetlab.com
A KYZER LABS COMPANY

August 01, 2023

AETL Job No: BEG0118.01
Received Date: 07/17/2023
Project Number: [none]

Parsons
100 West Walnut Street
Pasadena, CA 91124
Telephone: (626) 440-6200

Attention: Justin King

Project Name: LAUSD Canoga

Site: Canoga Park High School
6850 CA-27
Canoga Park, CA 91303

Enclosed please find the results of analyses for samples which were analyzed as specified on the attached chain of custody. If you have any questions concerning this report, please do not hesitate to call.

Checked By: Hailley Coleman
Hailley Coleman
Project Manager

Approved By: Joe Sevrean
Joe Sevrean
Laboratory Director

Table of Contents

Client Project Name: Canoga Park High School Project Number: [none]
Work Order Number: BEG0118

1	Cover Letter	1
2	Sample Condition on Receipt	3
3	Chain of Custody	4
4	Cooler Receipt Forms	9
5	Case Narrative	10
6	Samples Received	11
7	Positive Hits Summary	18
8	Analytical Results	19
9	Quality Control Results	21
10	Qualifiers and Definitions	23
11	Sub Contracted Analysis	25

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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEG0118 [none] Justin King LAUSD Canoga	Site: Reported:	Canoga Park High School 6850 CA-27 Canoga Park, CA 91303 08/01/2023 09:53

Sample Condition on Receipt

Cooler ID: Default Cooler **Temperature: 5.8 °C**

Are the COCs Correct	Y		
Labels Legible	Y	Containers In Good Condition	Y
COC/Labels Agree	Y	Samples Preserved Properly	Y
Sufficient Sample Volume	Y	Sufficient Holding Time for all Tests	Y
Sample Labels intact	Y	Received on Ice	Y

Cooler ID: New Cooler **Temperature: 5.7 °C**

Are the COCs Correct	Y		
Labels Legible	Y	Containers In Good Condition	Y
COC/Labels Agree	Y	Samples Preserved Properly	Y
Sufficient Sample Volume	Y	Sufficient Holding Time for all Tests	Y
Sample Labels intact	Y	Received on Ice	Y

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

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CHAIN OF CUSTODY RECORD

AETL JOB No. BEC00118 Page 1 of 5

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut Street Pasadena, CA 91124
PHONE / EMAIL: (310) 809-5793
PROJECT NAME: LAUSD Canoga
PROJECT #:
SITE NAME AND ADDRESS: Canoga Park Highschool 6850 Canoga Park, CA 91303
PO #: 453413

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	STLC - Pb	TLCP - Pb	STLC - As	TLCP - As	TEST INSTRUCTIONS & COMMENTS
1	SB-38-SW-35-D0.5	01	7/17/2023	0720	Soil	1x 9oz	none		X					
2	SB-26-SW-10-D0.5	02	7-17-2023	0746	Soil	1x 9oz	none		X			X	X	~~Hold~~ E.D.
3	SB-26-SW-10-D2.0	03	7-17-2023	0747	Soil	1x 9oz	none		X					Hold
4	SB-26-SW-10-D3.0	04	7-17-2023	0748	Soil	1x 9oz	none		X	E.D.				Hold
5	SB-25-SW15-D0.5	05	7-17-2023	0814	Soil	1x 9oz	none		X			X		~~Hold~~ E.D.
6	SB-25-SW15-D2.0	06	7-17-2023	0815	Soil	1x 9oz	none		X					Hold
7	SB-25-SW15-D3.0	07	7-17-2023	0816	Soil	1x 9oz	none							Hold
8	SB-26-E15-D0.5 Dup	08	7-17-2023	0823	Soil	~~1x 6oz~~ 1x 9oz	none		X			X		
9	SB-26-E15-D2.0	09	7-17-2023	0827	Soil	1x 9oz	none		X					Hold
10	SB-26-E15-D3.0	10	7-17-2023	0829	Soil	1x 9oz	none							Hold
11	SB-26-E15-D0.5 ~~Dup~~	11	7-17-2023	0823	Soil	1x 9oz	none		X			X		
12	SB-26-SE10-D0.5	12	7-17-2023	0842	Soil	1x 9oz	none		X			X	X	
13	SB-26-SE10-D2.0	13	7-17-2023	0846	Soil	1x 9oz	none		X					Hold
14	SB-26-SE10-D3.0	14	7-17-2023	0849	Soil	1x 9oz	none							Hold
15														

EP

TOTAL NUMBER OF CONTAINERS: 14

BILLING INFORMATION / SPECIAL INSTRUCTIONS

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:	Signature:	Signature:
Printed Name: Edward Dabsys	Printed Name:	Printed Name:
Date: 7/17/2023 Time: 1550	Date: Time:	Date: Time:
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: 3.**
Signature:	Signature:	Signature:
Printed Name:	Printed Name:	Printed Name:
Date: Time:	Date: Time:	Date: 7/17/23 Time: 15:50

TURN AROUND TIME
- ☐ NORMAL
- ☐ SAME DAY RUSH
- ☐ NEXT DAY RUSH
- ☐ 2 DAYS RUSH
- ☑ 3 DAYS RUSH
- ☐ 4 DAYS RUSH

DATA DELIVERABLE REQUIRED
- ☐ HARD COPY
- ☐ E-COPY
- ☐ GEOTRACKER (GLOBAL ID) _____
- ☐ OTHER (PLEASE SPECIFY) _____

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

AMERICAN ENVIRONMENTAL TESTING LABORATORY
2840 N. NAOMI ST. BURBANK, CALIFORNIA 91504 ELAP# 1541 & 2402 LACSD# 10181
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CHAIN OF CUSTODY RECORD

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut street Pasadena, CA 91124
PHONE / EMAIL: (310) 809-5793
PROJECT NAME: LAUSD Canoga
PROJECT #:
SITE NAME AND ADDRESS: Canoga Park High school 6850 Canoga Park, CA 91303
PO #: CA27 453413
AETL JOB No.: BE-G0118
Page 2 of 5

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1	SB-26-E25-D0.5	15	7-17-2023	0900	Soil	1x4oz	none
2	SB-26-E25-D2.0	16	7-17-2023	0902	Soil	1x4oz	"
3	SB-26-E25-D3.0	17	7-17-2023	0904	Soil	1x4oz	"
4	SB-7-SW-25-D0.5	18	"	928	"	"	"
5	SB-7-SW-25-D2.0	19		0931			
6	SB-7-SW-25-D3.0	20		0933			
7	SB-7-SW20-D0.5	21		0946			
8	SB-7-SW20-D2.0	22		0948			
9	SB-7-SW20-D3.0	23		0951			
10	SB-7-S20-D0.5	24		0955			
11	SB-7-S20-D2.0	25		0957			
12	SB-7-S20-D3.0	26		1000			
13	SB-5-W15-D0.5	27		1005			
14	SB-5-W15-D2.0	28		1007			
15	SB-5-W15-D3.0	29	"	1010	"	"	"

ANALYSIS REQUESTED

Lead (6010B)	Arsenic (6020)	STLC-Pb	TCLP-Pb	STLC-As	TCLP-As					TEST INSTRUCTIONS & COMMENTS
	X			X						Hold
	X									Hold
										Hold
	X									
										1-Hold
										1-Hold
	X									
										Hold
										Hold
	X									
										Hold
										Hold
	X									
	X									Hold
										Hold

TOTAL NUMBER OF CONTAINERS: 15

BILLING INFORMATION / SPECIAL INSTRUCTIONS

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: E. Dabsys	Signature:	Signature:
Printed Name: Edward Dabsys	Printed Name:	Printed Name:
Date: 7/17/2023 Time: 1550	Date: Time:	Date: Time:
RECEIVED BY: 1.	**RECEIVED BY:** 2.	**RECEIVED BY LABORATORY:** 3. AETL
Signature:	Signature:	Signature:
Printed Name:	Printed Name:	Printed Name:
Date: Time:	Date: Time:	Date: 7/17/23 Time: 15:50

TURN AROUND TIME
- ☐ NORMAL
- ☐ SAME DAY RUSH
- ☐ NEXT DAY RUSH
- ☐ 2 DAYS RUSH
- ☑ 3 DAYS RUSH
- ☐ 4 DAYS RUSH

DATA DELIVERABLE REQUIRED
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- ☐ GEOTRACKER (GLOBAL ID) _____
- ☐ OTHER (PLEASE SPECIFY) _____

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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CHAIN OF CUSTODY RECORD

AETL JOB No. BEG0118

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut Street Pasadena, CA 91124
PHONE EMAIL: (310) 809-5793
PROJECT NAME: LAUSD Canoga
PROJECT #:
SITE NAME AND ADDRESS: Canoga Park Highschool 6850 CA-27 Canoga Park, CA 91303
PO #: 453413

ANALYSIS REQUESTED

	SAMPLE ID	LAB ID BEG0118	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	STLC-Pb	TCLP-Pb	STLC-As	TCLP-As					TEST INSTRUCTIONS & COMMENTS
1	SB-5-E20-D0.5	30	7/17/2023	1015	Soil	1x 9oz	none		X			X	X					
2	SB-5-E20-D2.0	31		1020					X									Hold
3	SB-5-E20-D3.0	32		1022														Hold
4	SB-5-E20-D0.5DUP	33		1017					X			X	X					
5	SB-1-W10-D0.5	34		1046					X									
6	SB-1-W10-D2.0	35		1048					X									Hold
7	SB-1-W10-D3.0	36		1051														Hold
8	SB-1-SW20-D0.5	37		1054					X									
9	SB-1-SW20-D2.0	38		1056					X									Hold
10	SB-1-SW20-D3.0	39		1059														Hold
11	SB-3-S15-D0.5	40		1103				X		X	X							Hold
12	SB-3-S15-D2.0	41		1105				X										Hold
13	SB-3-S15-D3.0	42		1108														Hold
14	SB-3-S10-D0.5	43		1111				X		X	X							
15	SB-3-S10-D0.5DUP	44		1113				X		X								

TOTAL NUMBER OF CONTAINERS: 15

BILLING INFORMATION / SPECIAL INSTRUCTIONS

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: E Salazar	Signature:	Signature:
Printed Name: Edward Dabsys	Printed Name:	Printed Name:
Date: 7/17/2023 Time: 1550	Date: Time:	Date: Time:

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: AETL 3.
Signature:	Signature:	Signature:
Printed Name:	Printed Name:	Printed Name: Cereta Caregosin
Date: Time:	Date: Time:	Date: 07/17/23 Time: 15:50

TURN AROUND TIME
- ☐ NORMAL
- ☐ SAME DAY RUSH
- ☐ NEXT DAY RUSH
- ☐ 2 DAYS RUSH
- ☑ 3 DAYS RUSH
- ☐ 4 DAYS RUSH

DATA DELIVERABLE REQUIRED
- ☐ HARD COPY
- ☐ E-COPY
- ☐ GEOTRACKER (GLOBAL ID) _____
- ☐ OTHER (PLEASE SPECIFY) _____

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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CHAIN OF CUSTODY RECORD

COMPANY: Parsons
PROJECT MANAGER: Justin King
AETL JOB No.: BE60118
Page 4 of 5

COMPANY ADDRESS: 100 W. Walnut street Pasadena, CA 91124
PHONE EMAIL: (310) 809-5793

PROJECT NAME: LAUSD Canoga
PROJECT #:

SITE NAME AND ADDRESS: Canoga Park Highschool, 6850 CA-27 Canoga Park, CA 91303
PO #: 453413

ANALYSIS REQUESTED

	SAMPLE ID	LAB ID BE60118	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	STLC-Pb	TLLP-Pb	STLC-As	TLLP-As					TEST INSTRUCTIONS & COMMENTS
1	SB-3-S10-D2.0	45	7/17/2023	1115	Soil	1x 9oz	none	X										Hold
2	SB-3-S10-D3.0	46		1117														Hold
3	SB-51-SW10-D0.5	47		1145					X			X	X					
4	SB-51-SW10-D2.0	48		1146					X			X	X					Hold
5	SB-51-SW10-D3.0	49		1147					X									Hold
6	SB-51-S10-D0.5	50		1201					X									
7	SB-51-S10-D2.0	51		1202					X									Hold
8	SB-51-S10-D3.0	52		1203														Hold
9	SB-51-SE10-D0.5	53		1211					X									
10	SB-51-SE10-D0.5DUP	54		1211					X									
11	SB-51-SE10-D2.0	55		1212					X									Hold
12	SB-51-SE10-D3.0	56		1213														Hold
13	SB-51-SW10-D0.5	57		1223					~~X~~	E.D.								Hold
14	SB-51-SW10-D2.0	58		1226														Hold
15	SB-51-SW10-D3.0	59		1230														Hold

TOTAL NUMBER OF CONTAINERS: 15

BILLING INFORMATION / SPECIAL INSTRUCTIONS

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: [signature]	Signature:	Signature:
Printed Name: Edward Dobsys	Printed Name:	Printed Name:
Date: 7/17/2023 Time: 1550	Date: Time:	Date: Time:

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: 3.
Signature:	Signature:	Signature: [signature]
Printed Name:	Printed Name:	Printed Name: Greta Girergans
Date: Time:	Date: Time:	Date: 7/17/23 Time: 15:50

TURN AROUND TIME
- ☐ NORMAL
- ☐ SAME DAY RUSH
- ☐ NEXT DAY RUSH
- ☐ 2 DAYS RUSH
- ☑ 3 DAYS RUSH
- ☐ 4 DAYS RUSH

DATA DELIVERABLE REQUIRED
- ☐ HARD COPY
- ☐ E-COPY
- ☐ GEOTRACKER (GLOBAL ID) _____
- ☐ OTHER (PLEASE SPECIFY) _____

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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A KYZER LABS COMPANY

CHAIN OF CUSTODY RECORD

AETL JOB No. BE00118

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut street Pasadena, CA 91124
PHONE EMAIL: (310) 809-5793
PROJECT NAME: LAUSD Canoga
PROJECT #: 453413
SITE NAME AND ADDRESS: Canoga Park Highschool 6850 CA-27 Canoga Park, CA 91303
PO #:

ANALYSIS REQUESTED

	SAMPLE ID	LAB ID BE00118	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	STLC-Pb	TLLP-Pb	STLC-As	TLLP-As					TEST INSTRUCTIONS & COMMENTS
1	SB-44-S20-D0.5	60	7/17/2023	1250	soil	1X 9oz.	none		X									
2	SB-44-S20-D2.0	61		1251					X			X						Hold
3	SB-44-S20-D3.0	62		1252					X									Hold
4	SB-44-N20-D0.5	63		1301					X			X						
5	SB-44-N20-D2.0	64		1304					X			X						Hold
6	SB-44-N20-D3.0	65		1306					X									Hold
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		

TOTAL NUMBER OF CONTAINERS: 6

BILLING INFORMATION / SPECIAL INSTRUCTIONS

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: E. Galvez	Signature:	Signature:
Printed Name: Edward Dobys	Printed Name:	Printed Name:
Date: 7/17/2023 Time: 1550	Date: Time:	Date: Time:

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: 3.
Signature:	Signature:	Signature: AETL
Printed Name:	Printed Name:	Printed Name: Greta Pirogosi
Date: Time:	Date: Time:	Date: 7/17/23 Time: 15:50

TURN AROUND TIME
- ☐ NORMAL
- ☐ SAME DAY RUSH
- ☐ NEXT DAY RUSH
- ☐ 2 DAYS RUSH
- ☑ 3 DAYS RUSH
- ☐ 4 DAYS RUSH

DATA DELIVERABLE REQUIRED
- ☐ HARD COPY
- ☐ E-COPY
- ☐ GEOTRACKER (GLOBAL ID) _____
- ☐ OTHER (PLEASE SPECIFY) _____

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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COOLER RECEIPT FORM

Client Name: Parsons

Project Name: LAUSD Canoga Project No.:

AETL Job Number: BEG0118

Date Received: 07/17/2023 Received by: Greta G

Carrier: ☐ AETL Courier ☑ Client ☐ GSL ☐ FedEx ☐ UPS
☐Others:

Samples were received in: ☑ Cooler (__2_____) ☐ Other (Specify):

Sample Container Temperature: __5.8__ °C IR Gun S/N: 51941911MV

Type of sample containers: ☐ VOA, ☐ Glass bottles, ☑Wide mouth jars, ☐HDPE bottles, ☐ Metal sleeves, ☐ Acetate sleeves, ☐ 5035 Kit: ☐ AETL or ☐ Client, ☐ Tedlar Bags, Summa Canister: ☐ 6L, ☐ 3L, ☐ 1L, Others (Specify): _____

How are samples preserved: ☐ None, ☑ Ice, ☐ Blue Ice, ☐ Dry Ice
☑ None, ☐ HNO_3, ☐ NaOH, ☐ ZnOAc, ☐ HCl, ☐ $Na_2S_2O_3$, ☐ MeOH, ☐ $NaHSO_4$
☐ Other (Specify):

	Yes	No	N/A	Note or Comment
1. Are the COCs Correct?	✔			
2. Are Sample labels legible & indelible ink?	✔			
3. Do samples match the COC?	✔			
4. Are the required analyses clear?	✔			
5. Is there enough samples for required analysis?	✔			
6. Does cooler or samples have custody seal(s)?			✔	
7. Are sample containers in good condition?	✔			
8. Are samples preserved?	✔			
9. Are samples preserved properly for the intended analysis?	✔			
10. Are the VOAs free of headspace? See footnote.			✔	
11. Are the jars free of headspace?			✔	

* = see note below. N/A = Not Applicable

PLEASE NOTE ALL SAMPLES WILL BE DISPOSED OF 30 DAYS AFTER RECEIVING DATE. IF AETL IS INFORMED OTHERWISE, THERE WILL BE A STORAGE CHARGE PER SAMPLE PER MONTH FOR ANY SAMPLE HELD BEYOND 30 DAYS.

◯ Example maximum headspace bubble size; acceptance criteria not to exceed 5-6 mm in diameter.

For headspace bubbles exceeding 6 mm in diameter, sample receiving will tag the VOA and notify the Project Manager. The Project Manager will contact client for Analyze or Resample instructions.

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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEG0118 [none] Justin King LAUSD Canoga	Site: Reported:	Canoga Park High School 6850 CA-27 Canoga Park, CA 91303 08/01/2023 09:53

Case Narrative

The following "Sample Received" Section summarizes the samples received and associated analyses requested as specified on the enclosed chain of custody.

Results as reported by the laboratory apply only to 1) the items tested, 2) as the samples are received, and 3) the accuracy of information provided. Information supplied by the customer that may affect validity of results and may be contained in this report include Project Name/Number, Site Location, Sample Locations, Sampling Dates/Times, Sample ID, Sample Preservation, Sample Matrix, Sample Properties, Field Blanks, Field Duplicates, Field Spikes, and Site Historical Data.

Accreditation applies only to the test methods listed on each scope of accreditation held by the laboratory; certifications held by the laboratory may not apply to results supplied in this report.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

Qualifiers are noted in the report.

The samples were subcontracted to Asset Laboratories for EPA 6020, STLC, and TCLP. Please see attached report for results.

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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Parsons	AETL Job Number:	BEG0118	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LAUSD Canoga	Reported:	08/01/2023 09:53	

Samples Received

AETL received the following samples on 07/17/2023 with the following specifications

Client ID: SB-26-SW10-D0.5 **Sample Date:** 07/17/2023 7:46

Lab ID: BEG0118-02 **Matrix:** Soil **Quantity of Containers:** 3

Method	Analyte	Units	TAT
EPA 6010B-1311 TCLP	TCLP Arsenic by ICP	mg/L	3
EPA 6010B-STLC	STLC Arsenic by ICP	mg/L	3

Client ID: SB-26-SW10-D2.0 **Sample Date:** 07/17/2023 7:47

Lab ID: BEG0118-03 **Matrix:** Soil **Quantity of Containers:** 2

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	3

Client ID: SB-26-W15-D0.5 **Sample Date:** 07/17/2023 8:14

Lab ID: BEG0118-05 **Matrix:** Soil **Quantity of Containers:** 3

Method	Analyte	Units	TAT
EPA 6010B-STLC	STLC Arsenic by ICP	mg/L	3

Client ID: SB-26-W15-D2.0 **Sample Date:** 07/17/2023 8:15

Lab ID: BEG0118-06 **Matrix:** Soil **Quantity of Containers:** 2

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	3

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Parsons	AETL Job Number:	BEG0118	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LAUSD Canoga	Reported:	08/01/2023 09:53	

Samples Received

(Continued)

AETL received the following samples on 07/17/2023 with the following specifications

Client ID	Sample Date
SB-26-E15-D0.5 Dup	07/17/2023 8:23

Lab ID	Matrix	Quantity of Containers
BEG0118-08	Soil	3

Method	Analyte	Units	TAT
EPA 6010B-STLC	STLC Arsenic by ICP	mg/L	3

Client ID	Sample Date
SB-26-E15-D2.0	07/17/2023 8:27

Lab ID	Matrix	Quantity of Containers
BEG0118-09	Soil	2

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	3

Client ID	Sample Date
SB-26-E15-D0.5	07/17/2023 8:23

Lab ID	Matrix	Quantity of Containers
BEG0118-11	Soil	3

Method	Analyte	Units	TAT
EPA 6010B-STLC	STLC Arsenic by ICP	mg/L	3

Client ID	Sample Date
SB-26-SE10-D0.5	07/17/2023 8:42

Lab ID	Matrix	Quantity of Containers
BEG0118-12	Soil	3

Method	Analyte	Units	TAT
EPA 6010B-1311 TCLP	TCLP Arsenic by ICP	mg/L	3

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Parsons	AETL Job Number:	BEG0118	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LAUSD Canoga	Reported:	08/01/2023 09:53	

Samples Received
(Continued)

AETL received the following samples on 07/17/2023 with the following specifications

EPA 6010B-STLC	STLC Arsenic by ICP	mg/L	3

Client ID: SB-26-SE10-D2.0 **Sample Date:** 07/17/2023 8:46
Lab ID: BEG0118-13 **Matrix:** Soil **Quantity of Containers:** 2

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	3

Client ID: SB-26-E25-D0.5 **Sample Date:** 07/17/2023 9:00
Lab ID: BEG0118-15 **Matrix:** Soil **Quantity of Containers:** 3

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	3

Client ID: SB-5-W15-D2.0 **Sample Date:** 07/17/2023 10:07
Lab ID: BEG0118-28 **Matrix:** Soil **Quantity of Containers:** 2

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	3

Client ID: SB-5-E20-D0.5 **Sample Date:** 07/17/2023 10:15
Lab ID: BEG0118-30 **Matrix:** Soil **Quantity of Containers:** 3

Method	Analyte	Units	TAT

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Parsons	AETL Job Number:	BEG0118	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LAUSD Canoga	Reported:	08/01/2023 09:53	

Samples Received
(Continued)

AETL received the following samples on 07/17/2023 with the following specifications

EPA 6010B-1311 TCLP	TCLP Arsenic by ICP	mg/L	3
EPA 6010B-STLC	STLC Arsenic by ICP	mg/L	3

Client ID: SB-5-E20-D2.0 **Sample Date:** 07/17/2023 10:20

Lab ID: BEG0118-31 **Matrix:** Soil **Quantity of Containers:** 2

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	3

Client ID: SB-5-E20-D0.5Dup **Sample Date:** 07/17/2023 10:17

Lab ID: BEG0118-33 **Matrix:** Soil **Quantity of Containers:** 3

Method	Analyte	Units	TAT
EPA 6010B-1311 TCLP	TCLP Arsenic by ICP	mg/L	3
EPA 6010B-STLC	STLC Arsenic by ICP	mg/L	3

Client ID: SB-1-W10-D2.0 **Sample Date:** 07/17/2023 10:48

Lab ID: BEG0118-35 **Matrix:** Soil **Quantity of Containers:** 2

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	3

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Parsons	AETL Job Number:	BEG0118	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LAUSD Canoga	Reported:	08/01/2023 09:53	

Samples Received

(Continued)

AETL received the following samples on 07/17/2023 with the following specifications

Client ID: SB-1-SW20-D2.0 **Sample Date:** 07/17/2023 10:56

Lab ID: BEG0118-38 **Matrix:** Soil **Quantity of Containers:** 2

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	3

Client ID: SB-3-S15-D0.5 **Sample Date:** 07/17/2023 11:03

Lab ID: BEG0118-40 **Matrix:** Soil **Quantity of Containers:** 3

Method	Analyte	Units	TAT
EPA 6010B	Lead, total by ICP	mg/kg	3

Client ID: SB-3-S10-D0.5 **Sample Date:** 07/17/2023 11:11

Lab ID: BEG0118-43 **Matrix:** Soil **Quantity of Containers:** 2

Method	Analyte	Units	TAT
EPA 6010B-1311 TCLP	TCLP Lead by ICP	mg/L	3
EPA 6010B-STLC	STLC Lead by ICP	mg/L	3

Client ID: SB-3-S10-D0.5Dup **Sample Date:** 07/17/2023 11:13

Lab ID: BEG0118-44 **Matrix:** Soil **Quantity of Containers:** 2

Method	Analyte	Units	TAT
EPA 6010B-STLC	STLC Lead by ICP	mg/L	3

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Parsons	AETL Job Number:	BEG0118	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LAUSD Canoga	Reported:	08/01/2023 09:53	

Samples Received

(Continued)

AETL received the following samples on 07/17/2023 with the following specifications

Client ID SB-3-S10-D2.0 — **Sample Date** 07/17/2023 11:15

Lab ID BEG0118-45 — **Matrix** Soil — **Quantity of Containers** 3

Method	Analyte	Units	TAT
EPA 6010B	Lead, total by ICP	mg/kg	3

Client ID SB-51-SW10-D0.5 — **Sample Date** 07/17/2023 11:45

Lab ID BEG0118-47 — **Matrix** Soil — **Quantity of Containers** 3

Method	Analyte	Units	TAT
EPA 6010B-1311 TCLP	TCLP Arsenic by ICP	mg/L	3
EPA 6010B-STLC	STLC Arsenic by ICP	mg/L	3

Client ID SB-51-SW10-D2.0 — **Sample Date** 07/17/2023 11:46

Lab ID BEG0118-48 — **Matrix** Soil — **Quantity of Containers** 3

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	3

Client ID SB-51-S10-D2.0 — **Sample Date** 07/17/2023 12:02

Lab ID BEG0118-51 — **Matrix** Soil — **Quantity of Containers** 2

Method	Analyte	Units	TAT

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEG0118 [none] Justin King LAUSD Canoga	Site: Reported:	Canoga Park High School 6850 CA-27 Canoga Park, CA 91303 08/01/2023 09:53

Samples Received
(Continued)

AETL received the following samples on 07/17/2023 with the following specifications

EPA 6020	Arsenic, total by ICP/MS	mg/kg	3

Client ID: SB-51-SE10-D2.0 **Sample Date:** 07/17/2023 12:12
Lab ID: BEG0118-55 **Matrix:** Soil **Quantity of Containers:** 2

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	3

Client ID: SB-44-S20-D2.0 **Sample Date:** 07/17/2023 12:51
Lab ID: BEG0118-61 **Matrix:** Soil **Quantity of Containers:** 3

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	3

Client ID: SB-44-N20-D2.0 **Sample Date:** 07/17/2023 13:04
Lab ID: BEG0118-64 **Matrix:** Soil **Quantity of Containers:** 2

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	3

Total Number of Samples received: 26

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEG0118 [none] Justin King LAUSD Canoga	Site: Reported:	Canoga Park High School 6850 CA-27 Canoga Park, CA 91303 08/01/2023 09:53

Positive Hits Summary

Lab ID	Client ID				Sampled
BEG0118-40	SB-3-S15-D0.5				07/17/2023 11:03
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	**Lead**	**108**		**mg/kg**	**07/26/2023 13:36**

Lab ID	Client ID				Sampled
BEG0118-45	SB-3-S10-D2.0				07/17/2023 11:15
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	**Lead**	**4.16**	**J**	**mg/kg**	**07/26/2023 13:39**

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Parsons	AETL Job Number:	BEG0118	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LAUSD Canoga	Reported:	08/01/2023 09:53	

Analytical Results

Client ID: SB-3-S15-D0.5
Lab ID: BEG0118-40 (Soil) **Sampled:** 07/17/23 11:03

Metals Total

Method: EPA 6010B

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Lead	**108**		1	0.550	5.00	mg/kg	07/24/23 15:06	07/26/23 13:36	B3G0333	LE	3050B

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Parsons	AETL Job Number:	BEG0118	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LAUSD Canoga	Reported:	08/01/2023 09:53	

Analytical Results

Client ID: SB-3-S10-D2.0
Lab ID: BEG0118-45 (Soil) **Sampled:** 07/17/23 11:15

Metals Total

Method: EPA 6010B

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Lead	**4.16**	J	1	0.550	5.00	mg/kg	07/24/23 15:06	07/26/23 13:39	B3G0333	LE	3050B

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Parsons	AETL Job Number:	BEG0118	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LAUSD Canoga	Reported:	08/01/2023 09:53	

Quality Control Results

Metals Total (EPA 6010B)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3G0333 - 3050B					**Prepared: 07/25/2023 09:06**						
Method Blank (B3G0333-BLK1)					**Analyzed: 07/26/2023 13:15**						
Lead	ND	0.550	5.00	mg/kg							

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Parsons	AETL Job Number:	BEG0118	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LAUSD Canoga	Reported:	08/01/2023 09:53	

Quality Control Results

Metals Total (EPA 6010B)

Analyte	Result		RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3G0333 - 3050B (Continued)					**Prepared: 07/25/2023 09:06**						
LCS (B3G0333-BS1)					**Analyzed: 07/26/2023 13:18**						
Lead	97.2		5.00	mg/kg	97.1		100	75-125			
LCSD (B3G0333-BSD1)					**Analyzed: 07/26/2023 13:21**						
Lead	99.6		5.00	mg/kg	99.0		101	75-125	2.42	15	
Duplicate (B3G0333-DUP1)		**Source: BEG0189-01**			**Analyzed: 07/26/2023 13:27**						
Lead	1.82	0.550	5.00	mg/kg		1.59			13.6	20	J
Matrix Spike (B3G0333-MS1)		**Source: BEG0189-01**			**Analyzed: 07/26/2023 13:30**						
Lead	98.5	0.550	5.00	mg/kg	99.0	1.59	97.9	75-125			
Matrix Spike Dup (B3G0333-MSD1)		**Source: BEG0189-01**			**Analyzed: 07/26/2023 13:33**						
Lead	91.6	0.550	5.00	mg/kg	99.0	1.59	90.9	75-125	7.29	15	

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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEG0118 [none] Justin King LAUSD Canoga	Site: Reported:	Canoga Park High School 6850 CA-27 Canoga Park, CA 91303 08/01/2023 09:53

Qualifiers and Definitions

Item	Qualifiers
J	Analyte was detected. However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Reporting Limit (RL).

Item	Definitions
% wt	Percent Weight
%REC	Percent Recovery
°F	Degrees Fahrenheit
AETL	American Environmental Testing Laboratory, LLC
C	Carbon
CARB	California Air Resources Board
COC	Chain of Custody
Cresols	3-methylphenol/4-methylphenol coelute and cannot be chromatographically separated. Due to this coeluting isomer pair phenomenon, the laboratory uses a single cresol (4-methylphenol) as calibration standard for 3-methylphenol/4-methylphenol.
CRM	Certified Reference Material
DI	Deionized Water
DPD	Department of Planning and Development
DRO	Diesel Range Organics
Dup	Duplicate
ELAP	Environmental Laboratory Accreditation Program
EPA	Environmental Protection Agency
GC/FID	Gas Chromatography Flame Ionization Detection
GRO	Gasoline Range Organics
HC	Hydrocarbon
HEM	Hexane Extractable Material
HMU	Hazardous Material Unit
ICP/MS	Inductively Coupled Plasma Mass Spectrometry
LACSD	Los Angeles County Sanitation Districts
LCS	Laboratory Control Sample - A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes.
LCSD	Laboratory Control Sample Duplicate - A replicate of Laboratory Control Sample.
LOQ	Limit of Quantitation
MDL	Method Detection Limit - The minimum measured concentration of a substance that can be reported with 99% confidence. MDL is statistically derived number which is specific for each instrument, each method and each compound.
mg/kg	Miligrams per Kilogram
mg/L	Miligrams per Liter
ml/L/hr	Milliliter per Liter per Hour
MRO	Motor oil Range Organics

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

Parsons	AETL Job Number:	BEG0118	Site:	Canoga Park High School
100 West Walnut Street	Project Number:	[none]		6850 CA-27
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303
	Project Name:	LAUSD Canoga	Reported:	08/01/2023 09:53

MS	Matrix Spike - A sample prepared, taken through all sample preparation and analytical steps of the procedure and analyzed as an independent test results.
MSD	Matrix Spike Duplicate - A replicate of Matrix Spike Sample.
N	No
ND	Analyte is not detected below Method Detection Limit.
ng/m3	Nanograms per cubic meter
NIOSH	National Institute for Occupational Safety and Health
nL/L	Nanoliters per Liter
NTU	Nephelometric Turbidity Units
Ohm-cm	Ohms per centimeter
ORO	Oil Range Organics
OSHA	Occupational Safety and Health Administration
PCB	Polychlorinated Biphenyl
ppb v	Parts per billion by volume
ppmC	Parts per million Carbon
PSU	Practical Salinity Unit
RL	Reporting Limit - The lowest concentration at which an analyte can be detected in a sample and its concentration can be reported with a specified degree of confidence, accuracy and precision. For usage at AETL, RL is equivalant to LOQ.
RPD	Relative Percent Difference
SIM	Selective Ion Monitoring
SM	Standard Method
SPLP	Synthetic Precipitation Leaching Procedure
STLC	Soluble Threshold Limit Concentration
TCLP	Toxicity Characteristic Leaching Procedure
TPH	Total Petroleum Hydrocarbons
TTLC	Total Threshold Limit Concentrations
ug/kg	Micrograms per Kilogram
ug/L	Micrograms per Liter
ug/m3	Micrograms per cubic meter
WET	Waste Extraction Test
Y	Yes
ZHE	Zero Headspace Extraction

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

August 01, 2023

Hailley Coleman
American Environmental Testing Laboratory, Inc.
2834 N. Naomi Street
Burbank, CA 91504

TEL: (818) 845-8200
FAX:

Workorder No.: N058018

RE: BEG0118.01

Attention: Hailley Coleman

Enclosed are the results for sample(s) received on July 26, 2023 by ASSET Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562) 219-7435 if I can be of further assistance to your company.

Sincerely,



Ferdinand Paul Lugtu
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and ASSET Laboratories - California.

CLIENT: American Environmental Testing Laborator
Project: BEG0118.01
Lab Order: N058018

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

All sample containers were received intact with proper chain of custody documentation.

Information on sample receipt conditions including discrepancies can be found in attached Sample Receipt Checklist Form.

Cooler temperature and sample preservation were verified upon receipt of samples if applicable.

Samples were analyzed within method holding time.

Analytical Comments for WET/ EPA 6010B:

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria for some analytes in QC samples N058018-012A-MS/MSD possibly due to matrix interference. The associated Laboratory Control Sample (LCS) recovery was acceptable.

CLIENT: American Environmental Testing Laborator
Project: BEG0118.01
Lab Order: N058018
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N058018-001A	BEG0118-02	Soil	7/17/2023 7:46:00 AM	7/26/2023	8/1/2023
N058018-002A	BEG0118-03	Soil	7/17/2023 7:47:00 AM	7/26/2023	8/1/2023
N058018-003A	BEG0118-05	Soil	7/17/2023 8:14:00 AM	7/26/2023	8/1/2023
N058018-004A	BEG0118-06	Soil	7/17/2023 8:15:00 AM	7/26/2023	8/1/2023
N058018-005A	BEG0118-08	Soil	7/17/2023 8:23:00 AM	7/26/2023	8/1/2023
N058018-006A	BEG0118-09	Soil	7/17/2023 8:27:00 AM	7/26/2023	8/1/2023
N058018-007A	BEG0118-11	Soil	7/17/2023 8:23:00 AM	7/26/2023	8/1/2023
N058018-008A	BEG0118-12	Soil	7/17/2023 8:42:00 AM	7/26/2023	8/1/2023
N058018-009A	BEG0118-13	Soil	7/17/2023 8:46:00 AM	7/26/2023	8/1/2023
N058018-010A	BEG0118-15	Soil	7/17/2023 9:00:00 AM	7/26/2023	8/1/2023
N058018-011A	BEG0118-28	Soil	7/17/2023 10:07:00 AM	7/26/2023	8/1/2023
N058018-012A	BEG0118-30	Soil	7/17/2023 10:15:00 AM	7/26/2023	8/1/2023
N058018-013A	BEG0118-31	Soil	7/17/2023 10:20:00 AM	7/26/2023	8/1/2023
N058018-014A	BEG0118-33	Soil	7/17/2023 10:17:00 AM	7/26/2023	8/1/2023
N058018-015A	BEG0118-35	Soil	7/17/2023 10:48:00 AM	7/26/2023	8/1/2023
N058018-016A	BEG0118-38	Soil	7/17/2023 10:56:00 AM	7/26/2023	8/1/2023
N058018-017A	BEG0118-43	Soil	7/17/2023 11:11:00 AM	7/26/2023	8/1/2023
N058018-018A	BEG0118-44	Soil	7/17/2023 11:13:00 AM	7/26/2023	8/1/2023
N058018-019A	BEG0118-47	Soil	7/17/2023 11:45:00 AM	7/26/2023	8/1/2023
N058018-020A	BEG0118-48	Soil	7/17/2023 11:46:00 AM	7/26/2023	8/1/2023
N058018-021A	BEG0118-51	Soil	7/17/2023 12:02:00 PM	7/26/2023	8/1/2023
N058018-022A	BEG0118-55	Soil	7/17/2023 12:12:00 PM	7/26/2023	8/1/2023
N058018-023A	BEG0118-61	Soil	7/17/2023 12:51:00 PM	7/26/2023	8/1/2023
N058018-024A	BEG0118-64	Soil	7/17/2023 1:04:00 PM	7/26/2023	8/1/2023
N058018-025A	BEG0118-40	Soil	7/17/2023 11:03:00 AM	7/26/2023	8/1/2023
N058018-026A	BEG0118-45	Soil	7/17/2023 11:15:00 AM	7/26/2023	8/1/2023

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEG0118-02
Lab Order:	N058018		
Project:	BEG0118.01	**Collection Date:**	7/17/2023 7:46:00 AM
Lab ID:	N058018-001	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS BY STLC						
EPA 3010A				**WET/ EPA 6010B**		
RunID: CA01638-ICP01_230729A QC Batch: 101136				PrepDate:	7/28/2023	Analyst: **PL**
Arsenic	9.6	0.25		mg/L	5	7/29/2023 03:20 PM
ICP METALS BY TCLP EXTRACTION						
EPA 3010A				**EPA 1311/ 6010B**		
RunID: CA01638-ICP01_230729B QC Batch: 101101				PrepDate:	7/27/2023	Analyst: **PL**
Arsenic	1.6	0.050		mg/L	1	7/29/2023 02:17 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEG0118-03
Lab Order:	N058018		
Project:	BEG0118.01	**Collection Date:**	7/17/2023 7:47:00 AM
Lab ID:	N058018-002	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
EPA 3050B			**EPA 6020**			
RunID: NV00922-ICP8_230727A	QC Batch: 101073			PrepDate:	7/27/2023	Analyst: **DJ**
Arsenic	7.9	0.50		mg/Kg	1	7/27/2023 01:55 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEG0118-05
Lab Order:	N058018		
Project:	BEG0118.01	**Collection Date:**	7/17/2023 8:14:00 AM
Lab ID:	N058018-003	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS BY STLC						
EPA 3010A				**WET/ EPA 6010B**		
RunID: CA01638-ICP01_230729A	QC Batch: 101136			PrepDate:	7/28/2023	Analyst: **PL**
Arsenic	2.8	0.25		mg/L	5	7/29/2023 03:32 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEG0118-06
Lab Order:	N058018		
Project:	BEG0118.01	**Collection Date:**	7/17/2023 8:15:00 AM
Lab ID:	N058018-004	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
EPA 3050B			**EPA 6020**			
RunID: NV00922-ICP8_230727A	QC Batch: 101073			PrepDate:	7/27/2023	Analyst: **DJ**
Arsenic	7.5	0.50		mg/Kg	1	7/27/2023 02:19 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEG0118-08
Lab Order:	N058018		
Project:	BEG0118.01	**Collection Date:**	7/17/2023 8:23:00 AM
Lab ID:	N058018-005	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS BY STLC						
EPA 3010A				**WET/ EPA 6010B**		
RunID: CA01638-ICP01_230729A	QC Batch: 101136			PrepDate:	7/28/2023	Analyst: **PL**
Arsenic	3.8	0.25		mg/L	5	7/29/2023 03:26 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEG0118-09
Lab Order:	N058018		
Project:	BEG0118.01	**Collection Date:**	7/17/2023 8:27:00 AM
Lab ID:	N058018-006	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
EPA 3050B			**EPA 6020**			
RunID: NV00922-ICP8_230727A	QC Batch: 101073			PrepDate:	7/27/2023	Analyst: **DJ**
Arsenic	7.5	0.50		mg/Kg	1	7/27/2023 02:37 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEG0118-11
Lab Order:	N058018		
Project:	BEG0118.01	**Collection Date:**	7/17/2023 8:23:00 AM
Lab ID:	N058018-007	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS BY STLC						
EPA 3010A				**WET/ EPA 6010B**		
RunID: CA01638-ICP01_230729A	QC Batch: 101136			PrepDate:	7/28/2023	Analyst: **PL**
Arsenic	4.7	0.25		mg/L	5	7/29/2023 03:29 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEG0118-12
Lab Order:	N058018		
Project:	BEG0118.01	**Collection Date:**	7/17/2023 8:42:00 AM
Lab ID:	N058018-008	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS BY STLC						
EPA 3010A				**WET/ EPA 6010B**		
RunID: CA01638-ICP01_230729A	QC Batch: 101136			PrepDate:	7/28/2023	Analyst: **PL**
Arsenic	6.0	0.25		mg/L	5	7/29/2023 03:23 PM
ICP METALS BY TCLP EXTRACTION						
EPA 3010A				**EPA 1311/ 6010B**		
RunID: CA01638-ICP01_230729B	QC Batch: 101101			PrepDate:	7/27/2023	Analyst: **PL**
Arsenic	0.86	0.050		mg/L	1	7/29/2023 02:26 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEG0118-13
Lab Order:	N058018		
Project:	BEG0118.01	**Collection Date:**	7/17/2023 8:46:00 AM
Lab ID:	N058018-009	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
EPA 3050B			**EPA 6020**			
RunID: NV00922-ICP8_230727A	QC Batch: 101073			PrepDate:	7/27/2023	Analyst: **DJ**
Arsenic	6.1	0.50		mg/Kg	1	7/27/2023 02:42 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEG0118-15
Lab Order:	N058018		
Project:	BEG0118.01	**Collection Date:**	7/17/2023 9:00:00 AM
Lab ID:	N058018-010	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230727A	QC Batch: 101073			PrepDate:	7/27/2023	Analyst: **DJ**
Arsenic	95	2.5		mg/Kg	5	7/27/2023 03:56 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEG0118-28
Lab Order:	N058018		
Project:	BEG0118.01	**Collection Date:**	7/17/2023 10:07:00 AM
Lab ID:	N058018-011	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
EPA 3050B			**EPA 6020**			
RunID: NV00922-ICP8_230727A	QC Batch: 101073			PrepDate:	7/27/2023	Analyst: **DJ**
Arsenic	8.8	0.50		mg/Kg	1	7/27/2023 02:55 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEG0118-30
Lab Order:	N058018		
Project:	BEG0118.01	**Collection Date:**	7/17/2023 10:15:00 AM
Lab ID:	N058018-012	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS BY STLC						
EPA 3010A				**WET/ EPA 6010B**		
RunID: CA01638-ICP01_230729A	QC Batch: 101136			PrepDate:	7/28/2023	Analyst: **PL**
Arsenic	5.7	0.25		mg/L	5	7/29/2023 02:59 PM
ICP METALS BY TCLP EXTRACTION						
EPA 3010A				**EPA 1311/ 6010B**		
RunID: CA01638-ICP01_230729B	QC Batch: 101101			PrepDate:	7/27/2023	Analyst: **PL**
Arsenic	0.93	0.050		mg/L	1	7/29/2023 02:23 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEG0118-31
Lab Order:	N058018		
Project:	BEG0118.01	**Collection Date:**	7/17/2023 10:20:00 AM
Lab ID:	N058018-013	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
EPA 3050B			**EPA 6020**			
RunID: NV00922-ICP8_230727A	QC Batch: 101073			PrepDate:	7/27/2023	Analyst: **DJ**
Arsenic	9.7	0.50		mg/Kg	1	7/27/2023 03:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEG0118-33
Lab Order:	N058018		
Project:	BEG0118.01	**Collection Date:**	7/17/2023 10:17:00 AM
Lab ID:	N058018-014	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS BY STLC						
EPA 3010A				**WET/ EPA 6010B**		
RunID: CA01638-ICP01_230729A QC Batch: 101136				PrepDate:	7/28/2023	Analyst: **PL**
Arsenic	7.6	0.25		mg/L	5	7/29/2023 03:35 PM
ICP METALS BY TCLP EXTRACTION						
EPA 3010A				**EPA 1311/ 6010B**		
RunID: CA01638-ICP01_230729B QC Batch: 101101				PrepDate:	7/27/2023	Analyst: **PL**
Arsenic	1.2	0.050		mg/L	1	7/29/2023 02:41 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEG0118-35
Lab Order:	N058018		
Project:	BEG0118.01	**Collection Date:**	7/17/2023 10:48:00 AM
Lab ID:	N058018-015	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230727A	QC Batch: 101073			PrepDate:	7/27/2023	Analyst: **DJ**
Arsenic	8.0	0.50		mg/Kg	1	7/27/2023 03:04 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEG0118-38
Lab Order:	N058018		
Project:	BEG0118.01	**Collection Date:**	7/17/2023 10:56:00 AM
Lab ID:	N058018-016	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
EPA 3050B			**EPA 6020**			
RunID: NV00922-ICP8_230727A	QC Batch: 101073			PrepDate:	7/27/2023	Analyst: **DJ**
Arsenic	8.1	0.50		mg/Kg	1	7/27/2023 03:09 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEG0118-43
Lab Order:	N058018		
Project:	BEG0118.01	**Collection Date:**	7/17/2023 11:11:00 AM
Lab ID:	N058018-017	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS BY STLC						
EPA 3010A				**WET/ EPA 6010B**		
RunID: CA01638-ICP01_230729A QC Batch: 101136				PrepDate:	7/28/2023	Analyst: **PL**
Lead	6.6	0.25		mg/L	5	7/29/2023 03:38 PM
ICP METALS BY TCLP EXTRACTION						
EPA 3010A				**EPA 1311/ 6010B**		
RunID: CA01638-ICP01_230729B QC Batch: 101101				PrepDate:	7/27/2023	Analyst: **PL**
Lead	ND	0.050		mg/L	1	7/29/2023 02:20 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEG0118-44
Lab Order:	N058018		
Project:	BEG0118.01	**Collection Date:**	7/17/2023 11:13:00 AM
Lab ID:	N058018-018	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS BY STLC						
EPA 3010A				**WET/ EPA 6010B**		
RunID: CA01638-ICP01_230729A	QC Batch: 101136			PrepDate:	7/28/2023	Analyst: **PL**
Lead	5.8	0.25		mg/L	5	7/29/2023 03:41 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEG0118-47
Lab Order:	N058018		
Project:	BEG0118.01	**Collection Date:**	7/17/2023 11:45:00 AM
Lab ID:	N058018-019	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS BY STLC						
EPA 3010A				**WET/ EPA 6010B**		
RunID: CA01638-ICP01_230729A	QC Batch: 101136			PrepDate:	7/28/2023	Analyst: **PL**
Arsenic	37	0.25		mg/L	5	7/29/2023 03:50 PM
ICP METALS BY TCLP EXTRACTION						
EPA 3010A				**EPA 1311/ 6010B**		
RunID: CA01638-ICP01_230729B	QC Batch: 101101			PrepDate:	7/27/2023	Analyst: **PL**
Arsenic	4.1	0.050		mg/L	1	7/29/2023 02:29 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEG0118-48
Lab Order:	N058018		
Project:	BEG0118.01	**Collection Date:**	7/17/2023 11:46:00 AM
Lab ID:	N058018-020	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230727A	QC Batch: 101073			PrepDate:	7/27/2023	Analyst: **DJ**
Arsenic	350	2.5		mg/Kg	5	7/27/2023 04:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEG0118-51
Lab Order:	N058018		
Project:	BEG0118.01	**Collection Date:**	7/17/2023 12:02:00 PM
Lab ID:	N058018-021	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230727A	QC Batch: 101073			PrepDate:	7/27/2023	Analyst: **DJ**
Arsenic	5.4	0.50		mg/Kg	1	7/27/2023 03:18 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEG0118-55
Lab Order:	N058018		
Project:	BEG0118.01	**Collection Date:**	7/17/2023 12:12:00 PM
Lab ID:	N058018-022	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230727A	QC Batch: 101073			PrepDate:	7/27/2023	Analyst: **DJ**
Arsenic	6.3	0.50		mg/Kg	1	7/27/2023 03:37 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEG0118-61
Lab Order:	N058018		
Project:	BEG0118.01	**Collection Date:**	7/17/2023 12:51:00 PM
Lab ID:	N058018-023	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230727A	QC Batch: 101073			PrepDate:	7/27/2023	Analyst: **DJ**
Arsenic	88	0.50		mg/Kg	1	7/27/2023 03:42 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEG0118-64
Lab Order:	N058018		
Project:	BEG0118.01	**Collection Date:**	7/17/2023 1:04:00 PM
Lab ID:	N058018-024	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230727A	QC Batch: 101073			PrepDate:	7/27/2023	Analyst: **DJ**
Arsenic	59	0.50		mg/Kg	1	7/27/2023 03:46 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: American Environmental Testing Laboratory, Inc.
Work Order: N058018
Project: BEG0118.01

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_S_PPM

Sample ID: **MB-101073**	SampType: **MBLK**	TestCode: **6020_S_PPM**	Units: **mg/Kg**	Prep Date: **7/27/2023**	RunNo: **174295**
Client ID: **PBS**	Batch ID: **101073**	TestNo: **EPA 6020**	**EPA 3050B**	Analysis Date: **7/27/2023**	SeqNo: **5306347**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.50									

Sample ID: **LCS-101073**	SampType: **LCS**	TestCode: **6020_S_PPM**	Units: **mg/Kg**	Prep Date: **7/27/2023**	RunNo: **174295**
Client ID: **LCSS**	Batch ID: **101073**	TestNo: **EPA 6020**	**EPA 3050B**	Analysis Date: **7/27/2023**	SeqNo: **5306348**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	5.234	0.50	5.000	0	105	85	115				

Sample ID: **N058018-002A-MS**	SampType: **MS**	TestCode: **6020_S_PPM**	Units: **mg/Kg**	Prep Date: **7/27/2023**	RunNo: **174295**
Client ID: **ZZZZZZ**	Batch ID: **101073**	TestNo: **EPA 6020**	**EPA 3050B**	Analysis Date: **7/27/2023**	SeqNo: **5306352**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	13.466	0.50	4.980	7.888	112	75	125				

Sample ID: **N058018-002A-MSD**	SampType: **MSD**	TestCode: **6020_S_PPM**	Units: **mg/Kg**	Prep Date: **7/27/2023**	RunNo: **174295**
Client ID: **ZZZZZZ**	Batch ID: **101073**	TestNo: **EPA 6020**	**EPA 3050B**	Analysis Date: **7/27/2023**	SeqNo: **5306353**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	13.426	0.50	4.998	7.888	111	75	125	13.47	0.300	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: American Environmental Testing Laboratory, Inc.
Work Order: N058018
Project: BEG0118.01

ANALYTICAL QC SUMMARY REPORT

TestCode: CA_6010_ST

Sample ID: **LCS-101136** SampType: **LCS** TestCode: **CA_6010_ST** Units: **mg/L** Prep Date: **7/28/2023** RunNo: **174380**
Client ID: **LCSS** Batch ID: **101136** TestNo: **WET/ EPA 60 EPA 3010A** Analysis Date: **7/29/2023** SeqNo: **5312695**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.511	0.050	0.5000	0	102	85	115				
Lead	0.499	0.050	0.5000	0	99.8	85	115				

Sample ID: **MB-101136** SampType: **MBLK** TestCode: **CA_6010_ST** Units: **mg/L** Prep Date: **7/28/2023** RunNo: **174380**
Client ID: **PBS** Batch ID: **101136** TestNo: **WET/ EPA 60 EPA 3010A** Analysis Date: **7/29/2023** SeqNo: **5312696**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.050									
Lead	ND	0.050									

Sample ID: **MB-101063 STLC** SampType: **MBLK** TestCode: **CA_6010_ST** Units: **mg/L** Prep Date: **7/28/2023** RunNo: **174380**
Client ID: **PBS** Batch ID: **101136** TestNo: **WET/ EPA 60 EPA 3010A** Analysis Date: **7/29/2023** SeqNo: **5312697**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.036	0.25									
Lead	ND	0.25									

Sample ID: **N058018-012A-MS** SampType: **MS** TestCode: **CA_6010_ST** Units: **mg/L** Prep Date: **7/28/2023** RunNo: **174380**
Client ID: **ZZZZZZ** Batch ID: **101136** TestNo: **WET/ EPA 60 EPA 3010A** Analysis Date: **7/29/2023** SeqNo: **5312703**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	6.294	0.25	0.5000	0	1260	75	125				S
Lead	1.989	0.25	0.5000	0	398	75	125				S

Sample ID: **N058018-012A-MSD** SampType: **MSD** TestCode: **CA_6010_ST** Units: **mg/L** Prep Date: **7/28/2023** RunNo: **174380**
Client ID: **ZZZZZZ** Batch ID: **101136** TestNo: **WET/ EPA 60 EPA 3010A** Analysis Date: **7/29/2023** SeqNo: **5312704**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	6.309	0.25	0.5000	0	1260	75	125	6.294	0.248	20	S

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: American Environmental Testing Laboratory, Inc.
Work Order: N058018
Project: BEG0118.01

ANALYTICAL QC SUMMARY REPORT

TestCode: CA_6010_ST

Sample ID: **N058018-012A-MSD** SampType: **MSD** TestCode: **CA_6010_ST** Units: **mg/L** Prep Date: **7/28/2023** RunNo: **174380**
Client ID: **ZZZZZZ** Batch ID: **101136** TestNo: **WET/ EPA 60 EPA 3010A** Analysis Date: **7/29/2023** SeqNo: **5312704**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.991	0.25	0.5000	0	398	75	125	1.989	0.131	20	S

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: American Environmental Testing Laboratory, Inc.
Work Order: N058018
Project: BEG0118.01

ANALYTICAL QC SUMMARY REPORT

TestCode: CA_6010_TC

Sample ID: **LCS-101101** SampType: **LCS** TestCode: **CA_6010_TC** Units: **mg/L** Prep Date: **7/27/2023** RunNo: **174381**
Client ID: **LCSS** Batch ID: **101101** TestNo: **EPA 1311/ 60 EPA 3010A** Analysis Date: **7/29/2023** SeqNo: **5312736**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.513	0.050	0.5000	0	103	85	115				
Lead	0.514	0.050	0.5000	0	103	85	115				

Sample ID: **MB-101101** SampType: **MBLK** TestCode: **CA_6010_TC** Units: **mg/L** Prep Date: **7/27/2023** RunNo: **174381**
Client ID: **PBS** Batch ID: **101101** TestNo: **EPA 1311/ 60 EPA 3010A** Analysis Date: **7/29/2023** SeqNo: **5312737**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.050									
Lead	ND	0.050									

Sample ID: **MB-101019 TCLP** SampType: **MBLK** TestCode: **CA_6010_TC** Units: **mg/L** Prep Date: **7/27/2023** RunNo: **174381**
Client ID: **PBS** Batch ID: **101101** TestNo: **EPA 1311/ 60 EPA 3010A** Analysis Date: **7/29/2023** SeqNo: **5312738**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.007	0.050									
Lead	ND	0.050									

Sample ID: **N058022-045A-MS** SampType: **MS** TestCode: **CA_6010_TC** Units: **mg/L** Prep Date: **7/27/2023** RunNo: **174381**
Client ID: **ZZZZZZ** Batch ID: **101101** TestNo: **EPA 1311/ 60 EPA 3010A** Analysis Date: **7/29/2023** SeqNo: **5312748**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.498	0.050	0.5000	0	99.5	75	125				
Lead	0.500	0.050	0.5000	0	100	75	125				

Sample ID: **N058022-045A-MSD** SampType: **MSD** TestCode: **CA_6010_TC** Units: **mg/L** Prep Date: **7/27/2023** RunNo: **174381**
Client ID: **ZZZZZZ** Batch ID: **101101** TestNo: **EPA 1311/ 60 EPA 3010A** Analysis Date: **7/29/2023** SeqNo: **5312749**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.496	0.050	0.5000	0	99.2	75	125	0.4976	0.310	20	

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: American Environmental Testing Laboratory, Inc.
Work Order: N058018
Project: BEG0118.01

ANALYTICAL QC SUMMARY REPORT

TestCode: CA_6010_TC

Sample ID: **N058022-045A-MSD** SampType: **MSD** TestCode: **CA_6010_TC** Units: **mg/L** Prep Date: **7/27/2023** RunNo: **174381**
Client ID: **ZZZZZZ** Batch ID: **101101** TestNo: **EPA 1311/ 60 EPA 3010A** Analysis Date: **7/29/2023** SeqNo: **5312749**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.500	0.050	0.5000	0	100	75	125	0.5003	0.0400	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

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SUBCONTRACT CHAIN of CUSTODY

Sending Laboratory:

AETL
AETL, LLC. 2840 N. Naomi Street
Burbank, CA 91504
Phone: 818-845-8200

Project Manager: Hailley Coleman
Email: hcoleman@aetlab.com

Subcontracted Laboratory:

ASSET Laboratories
11110 Artesia Blvd.
Cerritos, CA 90703
Phone: (702)307-2659
Fax: (562)219-7435

Work Order: BEG0118.01 PO # SUB-35702

Analysis	Due	Expires	Comments
~~**Sample ID: BEG0118-01**~~ ***Soil*** ***Sampled: 07/17/2023 07:20***			TOTAL AS 1-DAY RUSH - BY 10AM
6020-As (Arsenic, total by ICP/MS)	07/20/2023	01/13/2024 07:20	AS SOON AS POSSIBLE
Containers Supplied:			↳ PLEASE SEND PARTIAL W/
Sample ID: BEG0118-02 ***Soil*** ***Sampled: 07/17/2023 07:46***			6020-AS
TCLP-6010B-As (TCLP Arsenic by ICP)	07/20/2023	07/27/2023 07:46	
STLC-Extraction (STLC-Extraction)	07/20/2023	07/31/2023 07:46	- STLC/TCLP AS 3-DAY RUSH
TCLP-Extraction (TCLP Extraction)	07/20/2023	10/25/2023 07:46	
~~6020-As (Arsenic, total by ICP/MS)~~	07/20/2023	01/13/2024 07:46	
STLC-6010B-As (STLC Arsenic by ICP)	07/20/2023	01/13/2024 07:46	N058018-001
Containers Supplied:			
Sample ID: BEG0118-03 ***Soil*** ***Sampled: 07/17/2023 07:47***			
6020-As (Arsenic, total by ICP/MS)	07/20/2023	01/13/2024 07:47	-002
Containers Supplied:			
Sample ID: BEG0118-05 ***Soil*** ***Sampled: 07/17/2023 08:14***			
STLC-Extraction (STLC-Extraction)	07/20/2023	07/31/2023 08:14	
~~6020-As (Arsenic, total by ICP/MS)~~	07/20/2023	01/13/2024 08:14	-003
STLC-6010B-As (STLC Arsenic by ICP)	07/20/2023	01/13/2024 08:14	

CA: 5.7°C IR#1
CU SW #: 0181

Approved by: HAILLEY COLEMAN 7/25/23
AETL Project Manager — Date

Released By AETL Sample Control	Date	Received By Courier	Date
Hray B.	7/26/23	Marbel Maribel R.	7/25/23 1014
Released By Courier	**Date**	**Received By Subcontract Laboratory**	**Date**
Marbel Maribel R. 7/24/23 1045	10:14am	Yoandra Rodriguez	7/26/23 1740

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SUBCONTRACT CHAIN of CUSTODY
(Continued)

Work Order: BEG0118 (Continued)

Analysis	Due	Expires	Comments
Containers Supplied:			
Sample ID: BEG0118-06 ***Soil*** ***Sampled: 07/17/2023 08:15***			
6020-As (Arsenic, total by ICP/MS)	07/20/2023	01/13/2024 08:15	
Containers Supplied:			N058018-004
Sample ID: BEG0118-08 ***Soil*** ***Sampled: 07/17/2023 08:23***			
STLC-Extraction (STLC-Extraction)	07/20/2023	07/31/2023 08:23	
~~6020-As (Arsenic, total by ICP/MS)~~	07/20/2023	01/13/2024 08:23	
STLC-6010B-As (STLC Arsenic by ICP)	07/20/2023	01/13/2024 08:23	-005
Containers Supplied:			
Sample ID: BEG0118-09 ***Soil*** ***Sampled: 07/17/2023 08:27***			
6020-As (Arsenic, total by ICP/MS)	07/20/2023	01/13/2024 08:27	
Containers Supplied:			-006
Sample ID: BEG0118-11 ***Soil*** ***Sampled: 07/17/2023 08:23***			
STLC-Extraction (STLC-Extraction)	07/20/2023	07/31/2023 08:23	
~~6020-As (Arsenic, total by ICP/MS)~~	07/20/2023	01/13/2024 08:23	
STLC-6010B-As (STLC Arsenic by ICP)	07/20/2023	01/13/2024 08:23	-007
Containers Supplied:			
Sample ID: BEG0118-12 ***Soil*** ***Sampled: 07/17/2023 08:42***			
TCLP-6010B-As (TCLP Arsenic by ICP)	07/20/2023	07/27/2023 08:42	
STLC-Extraction (STLC-Extraction)	07/20/2023	07/31/2023 08:42	
TCLP-Extraction (TCLP Extraction)	07/20/2023	10/25/2023 08:42	
~~6020-As (Arsenic, total by ICP/MS)~~	07/20/2023	01/13/2024 08:42	-008
STLC-6010B-As (STLC Arsenic by ICP)	07/20/2023	01/13/2024 08:42	

CA: 5.7°C IR#1

LU SW # : 0181

Approved by:
AETL Project Manager _____ Date _____

Released By AETL Sample Control	Date	Received By Courier	Date
Hrag B.	7/26/23 10:15am	Mabel Mabel R.	7/26/23 1014
Released By Courier	Date	Received By Subcontract Laboratory	Date
Mabel Mabel Ramos 7/26/23 1045		Yvonne Rodriguez	7/26/23 1740

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SUBCONTRACT CHAIN of CUSTODY
(Continued)

Work Order: BEG0118 (Continued)

Analysis	Due	Expires	Comments
Containers Supplied:			
Sample ID: BEG0118-13 ***Soil*** ***Sampled: 07/17/2023 08:46***			
6020-As (Arsenic, total by ICP/MS)	07/20/2023	01/13/2024 08:46	
Containers Supplied:			N058018-009
Sample ID: BEG0118-15 ***Soil*** ***Sampled: 07/17/2023 09:00***			
6020-As (Arsenic, total by ICP/MS)	07/20/2023	01/13/2024 09:00	
Containers Supplied:			-010
~~**Sample ID: BEG0118-18**~~ ***Soil*** ***Sampled: 07/17/2023 09:28***			
6020-As (Arsenic, total by ICP/MS)	07/20/2023	01/13/2024 09:28	
Containers Supplied:			
~~**Sample ID: BEG0118-21**~~ ***Soil*** ***Sampled: 07/17/2023 09:46***			
6020-As (Arsenic, total by ICP/MS)	07/20/2023	01/13/2024 09:46	
Containers Supplied:			
~~**Sample ID: BEG0118-24**~~ ***Soil*** ***Sampled: 07/17/2023 09:55***			
6020-As (Arsenic, total by ICP/MS)	07/20/2023	01/13/2024 09:55	
Containers Supplied:			
~~**Sample ID: BEG0118-27**~~ ***Soil*** ***Sampled: 07/17/2023 10:05***			
6020-As (Arsenic, total by ICP/MS)	07/20/2023	01/13/2024 10:05	

CA: 5.7°C IR#1

Approved by:
AETL Project Manager _____ Date _____

Released By AETL Sample Control _____ Date _____ Received By Courier _____ Date _____

Hrag B. 7/25/23 10:15am
Released By Courier Date

Marbel Naribel R. 7/26/23 1015
Received By Subcontract Laboratory Date

Marbel Naribel R 7/26/23 1045

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SUBCONTRACT CHAIN of CUSTODY
(Continued)

Work Order: BEG0118 (Continued)

Analysis	Due	Expires	Comments
Containers Supplied:			
Sample ID: BEG0118-28 ***Soil*** ***Sampled: 07/17/2023 10:07***			
6020-As (Arsenic, total by ICP/MS)	07/20/2023	01/13/2024 10:07	
Containers Supplied:			N058018-011
Sample ID: BEG0118-30 ***Soil*** ***Sampled: 07/17/2023 10:15***			
TCLP-6010B-As (TCLP Arsenic by ICP)	07/20/2023	07/27/2023 10:15	
STLC-Extraction (STLC-Extraction)	07/20/2023	07/31/2023 10:15	
TCLP-Extraction (TCLP Extraction)	07/20/2023	10/25/2023 10:15	
~~6020-As (Arsenic, total by ICP/MS)~~	07/20/2023	01/13/2024 10:15	-012
STLC-6010B-As (STLC Arsenic by ICP)	07/20/2023	01/13/2024 10:15	
Containers Supplied:			
Sample ID: BEG0118-31 ***Soil*** ***Sampled: 07/17/2023 10:20***			
6020-As (Arsenic, total by ICP/MS)	07/20/2023	01/13/2024 10:20	
Containers Supplied:			-013
Sample ID: BEG0118-33 ***Soil*** ***Sampled: 07/17/2023 10:17***			
TCLP-6010B-As (TCLP Arsenic by ICP)	07/20/2023	07/27/2023 10:17	
STLC-Extraction (STLC-Extraction)	07/20/2023	07/31/2023 10:17	
TCLP-Extraction (TCLP Extraction)	07/20/2023	10/25/2023 10:17	
~~6020-As (Arsenic, total by ICP/MS)~~	07/20/2023	01/13/2024 10:17	-014
STLC-6010B-As (STLC Arsenic by ICP)	07/20/2023	01/13/2024 10:17	
Containers Supplied:			
~~**Sample ID: BEG0118-34**~~ ***Soil*** ***Sampled: 07/17/2023 10:46***			
6020-As (Arsenic, total by ICP/MS)	07/20/2023	01/13/2024 10:46	

Approved by: _____ _____ CA: 5.7°C IR# 1
AETL Project Manager Date CV SW #: 0181

Released By AETL Sample Control	Date	Received By Courier	Date
Hray B.	7/26/23	Mabel Maibel P.	7/26/23 1015
Released By Courier	Date	Received By Subcontract Laboratory	Date

Mabel Maibel P. 7/26/23 1045 10:15am Yoandra Rodriguez 7/26/23 1740

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SUBCONTRACT CHAIN of CUSTODY
(Continued)

Work Order: BEG0118 (Continued)

Analysis	Due	Expires	Comments
Containers Supplied:			
Sample ID: BEG0118-35 ***Soil*** ***Sampled: 07/17/2023 10:48***			
6020-As (Arsenic, total by ICP/MS)	07/20/2023	01/13/2024 10:48	
Containers Supplied:			N058018-015
~~**Sample ID: BEG0118-37**~~ ***Soil*** ***Sampled: 07/17/2023 10:54***			
6020-As (Arsenic, total by ICP/MS)	07/20/2023	01/13/2024 10:54	
Containers Supplied:			
Sample ID: BEG0118-38 ***Soil*** ***Sampled: 07/17/2023 10:56***			
6020-As (Arsenic, total by ICP/MS)	07/20/2023	01/13/2024 10:56	
Containers Supplied:			-016
Sample ID: BEG0118-43 ***Soil*** ***Sampled: 07/17/2023 11:11***			
STLC-Extraction (STLC-Extraction)	07/20/2023	07/31/2023 11:11	
TCLP-Extraction (TCLP Extraction)	07/20/2023	10/25/2023 11:11	
STLC-6010B-Pb (STLC Lead by ICP)	07/20/2023	10/25/2023 11:11	
TCLP-6010B-Pb (TCLP Lead by ICP)	07/20/2023	01/13/2024 11:11	
Containers Supplied:			-017
Sample ID: BEG0118-44 ***Soil*** ***Sampled: 07/17/2023 11:13***			
STLC-Extraction (STLC-Extraction)	07/20/2023	07/31/2023 11:13	
STLC-6010B-Pb (STLC Lead by ICP)	07/20/2023	10/25/2023 11:13	
Containers Supplied:			-018

Approved by: _____ _____ CA: 5.7°C IR#1
AETL Project Manager Date

Released By AETL Sample Control	Date	Received By Courier	Date
Hrag B.	7/26/23	Mabel Maribel R.	7/26/23 1015
Released By Courier	Date	Received By Subcontract Laboratory	Date

Mabel Maribel R. 7/26/23 1045 10:15 am

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SUBCONTRACT CHAIN of CUSTODY
(Continued)

Work Order: BEG0118 (Continued)

Analysis	Due	Expires	Comments
Sample ID: BEG0118-47 ***Soil*** ***Sampled: 07/17/2023 11:45***			
TCLP-6010B-As (TCLP Arsenic by ICP)	07/20/2023	07/27/2023 11:45	
STLC-Extraction (STLC-Extraction)	07/20/2023	07/31/2023 11:45	
TCLP-Extraction (TCLP Extraction)	07/20/2023	10/25/2023 11:45	N058018-019
~~6020-As (Arsenic, total by ICP/MS)~~	07/20/2023	01/13/2024 11:45	
STLC-6010B-As (STLC Arsenic by ICP)	07/20/2023	01/13/2024 11:45	
Containers Supplied:			
Sample ID: BEG0118-48 ***Soil*** ***Sampled: 07/17/2023 11:46***			
6020-As (Arsenic, total by ICP/MS)	07/20/2023	01/13/2024 11:46	-020
Containers Supplied:			
~~**Sample ID: BEG0118-50**~~ ***Soil*** ***Sampled: 07/17/2023 12:01***			
6020-As (Arsenic, total by ICP/MS)	07/20/2023	01/13/2024 12:01	
Containers Supplied:			
Sample ID: BEG0118-51 ***Soil*** ***Sampled: 07/17/2023 12:02***			
6020-As (Arsenic, total by ICP/MS)	07/20/2023	01/13/2024 12:02	
Containers Supplied:			-021
~~**Sample ID: BEG0118-53**~~ ***Soil*** ***Sampled: 07/17/2023 12:11***			
6020-As (Arsenic, total by ICP/MS)	07/20/2023	01/13/2024 12:11	
Containers Supplied:			
~~**Sample ID: BEG0118-54**~~ ***Soil*** ***Sampled: 07/17/2023 12:11***			
6020-As (Arsenic, total by ICP/MS)	07/20/2023	01/13/2024 12:11	

Approved by:
AETL Project Manager _____ Date _____

CA: 5.7°C FR#1
LV SW #- 0181

Released By AETL Sample Control	Date	Received By Courier	Date
Hrag B.	7/26/23 10:15am	Mabel Naubel R.	7/26/23 1015
Released By Courier	Date	Received By Subcontract Laboratory	Date
Mabel Naubel R. 7/26/23 1045		Yoandra Rodriguez	7/26/23 1740

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SUBCONTRACT CHAIN of CUSTODY
(Continued)

Work Order: BEG0118 (Continued)

Analysis	Due	Expires	Comments
Containers Supplied:			
Sample ID: BEG0118-55 ***Soil*** ***Sampled: 07/17/2023 12:12***			
6020-As (Arsenic, total by ICP/MS)	07/20/2023	01/13/2024 12:12	
Containers Supplied:			N058018-022
~~**Sample ID: BEG0118-60**~~ ***Soil*** ***Sampled: 07/17/2023 12:50***			
6020-As (Arsenic, total by ICP/MS)	07/20/2023	01/13/2024 12:50	
Containers Supplied:			
Sample ID: BEG0118-61 ***Soil*** ***Sampled: 07/17/2023 12:51***			
6020-As (Arsenic, total by ICP/MS)	07/20/2023	01/13/2024 12:51	-023
Containers Supplied:			
~~**Sample ID: BEG0118-63**~~ ***Soil*** ***Sampled: 07/17/2023 13:01***			
6020-As (Arsenic, total by ICP/MS)	07/20/2023	01/13/2024 13:01	
Containers Supplied:			
Sample ID: BEG0118-64 ***Soil*** ***Sampled: 07/17/2023 13:04***			
6020-As (Arsenic, total by ICP/MS)	07/20/2023	01/13/2024 13:04	
Containers Supplied:			-024

CA: 5.7°C FR#1

Approved by:
AETL Project Manager — Date

Released By AETL Sample Control — Date — Received By Courier — Date

Hrog B. 7/28/23 — Mabel Maribel R. 7/26/23 1015

Released By Courier — Date — Received By Subcontract Laboratory — Date

10:15am

Mabel Ramos, Maribel 7/26/23 1045 SW# 0181 Yeandon Rodriguez 7/26/23 1740

ASSET Laboratories

Please review the checklist below. Any NO signifies non-compliance. Any non-compliance will be noted and must be understood as having an impact on the quality of the data. All tests will be performed as requested regardless of any compliance issues.

If you have any questions or further instruction, please contact our Project Coordinator at (702) 307-2659.

Cooler Received/Opened On:	7/26/2023	Workorder:	N058018
Rep sample Temp (Deg C):	5.7	IR Gun ID:	1
Temp Blank:	☐ Yes ☑ No		
Carrier name:	Walk-In		
Last 4 digits of Tracking No.:	NA	Packing Material Used:	None
Cooling process:	☑ Ice ☐ Ice Pack ☐ Dry Ice ☐ Other ☐ None		

Sample Receipt Checklist

1. Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
2. Custody seals intact, signed, dated on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
3. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
4. Chain of custody present?	Yes ☑	No ☐	
5. Sampler's name present in COC?	Yes ☐	No ☑	
6. Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
7. Chain of custody agrees with sample labels?	Yes ☑	No ☐	
8. Samples in proper container/bottle?	Yes ☑	No ☐	
9. Sample containers intact?	Yes ☑	No ☐	
10. Sufficient sample volume for indicated test?	Yes ☑	No ☐	
11. All samples received within holding time?	Yes ☑	No ☐	
12. Temperature of rep sample or Temp Blank within acceptable limit?	Yes ☑	No ☐	NA ☐
13. Water - VOA vials have zero headspace?	Yes ☐	No ☐	NA ☑
14. Water - pH acceptable upon receipt? Example: pH > 12 for (CN,S); pH<2 for Metals	Yes ☐	No ☐	NA ☑
15. Did the bottle labels indicate correct preservatives used?	Yes ☐	No ☐	NA ☑
16. Were there Non-Conformance issues at login?	Yes ☑	No ☐	NA ☐
Was Client notified?	Yes ☐	No ☐	NA ☑

Comments: Received at Las Vegas Lab on 7/26/2023, via SW#0181.

Checklist Completed By: MR 7/27/2023

Reviewed By: for: MBC

Subject: RE: 6020-As
From: Hailley Coleman <hcoleman@aetlab.com>
Date: 7/26/2023, 10:41 AM
To: Maribel Ramos <maribel@assetlaboratories.com>, "tmalit@assetlaboratories.com" <tmalit@assetlaboratories.com>
CC: 'Kim San Antonio' <kim@assetlaboratories.com>

Hi Maribel,

Looks like those were included by mistake. Please place those on hold.

Thanks!

Hailley Coleman
Project Manager

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From: Maribel Ramos <maribel@assetlaboratories.com>
Sent: Wednesday, July 26, 2023 10:39 AM
To: Hailley Coleman <hcoleman@aetlab.com>; tmalit@assetlaboratories.com
Cc: 'Kim San Antonio' <kim@assetlaboratories.com>
Subject: Re: 6020-As

Hailley,

We received BEG0118-40 & BEG0118-45 not listed on the COC. Will these be analyzed for anything?

Thank you,

Maribel Ramos

On 7/26/2023 9:39 AM, Hailley Coleman wrote:

> Thad,
>
> These samples should be arriving soon – our work order ID is BEG0118.01.
>
> Thank you,

Hailley Coleman
Project Manager

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From: Hailley Coleman
Sent: Tuesday, July 25, 2023 3:44 PM
To: tmalit@assetlaboratories.com
Cc: 'Maribel Ramos' <maribel@assetlaboratories.com>; 'Kim San Antonio' <kim@assetlaboratories.com>
Subject: RE: 6020-As

Understood, thank you. We are going to try to get them there by 9:30am.

Hailley Coleman
Project Manager

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From: tmalit@assetlaboratories.com <tmalit@assetlaboratories.com>
Sent: Tuesday, July 25, 2023 3:42 PM
To: Hailley Coleman <hcoleman@aetlab.com>
Cc: 'Maribel Ramos' <maribel@assetlaboratories.com>; 'Kim San Antonio' <kim@assetlaboratories.com>
Subject: RE: 6020-As

Hi Hailey,

If we receive these samples tomorrow morning assuming by 10am, we could report them by 10am the following morning but would apply a 24 hr Rush TAT.

Regards
Thad

From: Hailley Coleman <hcoleman@aetlab.com>
Sent: Tuesday, July 25, 2023 3:34 PM
To: tmalit@assetlaboratories.com
Cc: 'Maribel Ramos' <maribel@assetlaboratories.com>; 'Kim San Antonio' <kim@assetlaboratories.com>
Subject: RE: 6020-As

They are soil. Would next day TAT with reporting the following morning be potentially possible?

Hailley Coleman
Project Manager

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From: tmalit@assetlaboratories.com <tmalit@assetlaboratories.com>
Sent: Tuesday, July 25, 2023 3:33 PM
To: Hailley Coleman <hcoleman@aetlab.com>
Cc: 'Maribel Ramos' <maribel@assetlaboratories.com>; 'Kim San Antonio' <kim@assetlaboratories.com>
Subject: RE: 6020-As

Hi Hailley

Please confirm are these soil or water. Next day is more realistic.

Regards
Thad

From: Hailley Coleman <hcoleman@aetlab.com>
Sent: Tuesday, July 25, 2023 3:09 PM
To: Thad <tmalit@assetlaboratories.com>
Subject: 6020-As

Hi Thad,

We have around 10-12 samples for 6020-As we need results for as soon as possible. If we deliver them first thing tomorrow morning, is it possible to get same-day TAT? Let me know what the fastest TAT you could do is.

I know it is very last minute, and I really appreciate you guys for all of the rushes we have sent recently!

Thank you,

Hailley Coleman
Project Manager

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Subject: RE: N058018 (BEG0118.01)
From: Hailley Coleman <hcoleman@aetlab.com>
Date: 7/26/2023, 12:59 PM
To: Kim San Antonio <kim@assetlaboratories.com>
CC: "maribel@assetlaboratories.com" <maribel@assetlaboratories.com>, "tmalit@assetlaboratories.com" <tmalit@assetlaboratories.com>

Hi Kim,

Please proceed with analysis.

Thank you!

Hailley Coleman
Project Manager

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-----Original Message-----
From: Kim San Antonio <kim@assetlaboratories.com>
Sent: Wednesday, July 26, 2023 12:52 PM
To: Hailley Coleman <hcoleman@aetlab.com>
Cc: maribel@assetlaboratories.com; tmalit@assetlaboratories.com
Subject: N058018 (BEG0118.01)

Hailey,

We have insufficient volume for the following samples;

N058018-008 (BEG0118-12)

N058018-012 (BEG0118-30)

N058018-014 (BEG0118-33)

N058018-019 (BEG0118-47)

TCLP requires minimum of 100g per SOP. However, it can be run as a limited sample. Please

let us know if we could proceed.

Thank you,

Kim

--
This email has been checked for viruses by Avast antivirus software.
www.avast.com

ASSET Laboratories

WORK ORDER Summary

27-Jul-23

WorkOrder: N058018

Client ID: AETL01

Project: BEG0118.01 **QC Level:** RTNE **Date Received:** 7/26/2023 10:14 AM

Comments: Total As 1-Day rush by 10 am as soon as possible. Please send Partial w/ 6020 - As.STLC/TCLP as 3-Day rush

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N058018-001A	BEG0118-02	7/17/2023 7:46:00 AM	7/31/2023	Soil	EPA 1311	TCLP Sample Prep Metals	☐	☐	☐	WS-CA
			7/31/2023		EPA 3010A	AQPrep for Total Metals: ICP for STLC Extracts	☐	☐	☐	WS-CA
			7/31/2023		EPA 3010A	AQPrep for Total Metals	☐	☐	☐	WS-CA
			7/31/2023		WET/ EPA 6010B	ICP METALS by STLC	☐	☐	☐	WS-CA
			7/31/2023		EPA 1311/ 6010B	ICP METALS by TCLP Extraction	☐	☐	☐	WS-CA
			7/31/2023		WET	STLC Sample Prep Metals	☐	☐	☐	WS-CA
N058018-002A	BEG0118-03	7/17/2023 7:47:00 AM	7/27/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			7/27/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N058018-003A	BEG0118-05	7/17/2023 8:14:00 AM	7/31/2023		EPA 3010A	AQPrep for Total Metals: ICP for STLC Extracts	☐	☐	☐	WS-CA
			7/31/2023		WET/ EPA 6010B	ICP METALS by STLC	☐	☐	☐	WS-CA
			7/31/2023		WET	STLC Sample Prep Metals	☐	☐	☐	WS-CA
N058018-004A	BEG0118-06	7/17/2023 8:15:00 AM	7/27/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			7/27/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N058018-005A	BEG0118-08	7/17/2023 8:23:00 AM	7/31/2023		EPA 3010A	AQPrep for Total Metals: ICP for STLC Extracts	☐	☐	☐	WS-CA
			7/31/2023		WET/ EPA 6010B	ICP METALS by STLC	☐	☐	☐	WS-CA
			7/31/2023		WET	STLC Sample Prep Metals	☐	☐	☐	WS-CA
N058018-006A	BEG0118-09	7/17/2023 8:27:00 AM	7/27/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			7/27/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N058018-007A	BEG0118-11	7/17/2023 8:23:00 AM	7/31/2023		EPA 3010A	AQPrep for Total Metals: ICP for STLC Extracts	☐	☐	☐	WS-CA
			7/31/2023		WET/ EPA 6010B	ICP METALS by STLC	☐	☐	☐	WS-CA
			7/31/2023		WET	STLC Sample Prep Metals	☐	☐	☐	WS-CA

ASSET Laboratories

WORK ORDER Summary

27-Jul-23

WorkOrder: N058018

Client ID: AETL01

Project: BEG0118.01 **QC Level:** RTNE **Date Received:** 7/26/2023 10:14 AM

Comments: Total As 1-Day rush by 10 am as soon as possible. Please send Partial w/ 6020 - As.STLC/TCLP as 3-Day rush

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N058018-008A	BEG0118-12	7/17/2023 8:42:00 AM	7/31/2023	Soil	EPA 1311	TCLP Sample Prep Metals	☐	☐	☐	WS-CA
			7/31/2023		EPA 3010A	AQPrep for Total Metals: ICP for STLC Extracts	☐	☐	☐	WS-CA
			7/31/2023		EPA 3010A	AQPrep for Total Metals	☐	☐	☐	WS-CA
			7/31/2023		WET/ EPA 6010B	ICP METALS by STLC	☐	☐	☐	WS-CA
			7/31/2023		EPA 1311/ 6010B	ICP METALS by TCLP Extraction	☐	☐	☐	WS-CA
			7/31/2023		WET	STLC Sample Prep Metals	☐	☐	☐	WS-CA
N058018-009A	BEG0118-13	7/17/2023 8:46:00 AM	7/27/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			7/27/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N058018-010A	BEG0118-15	7/17/2023 9:00:00 AM	7/27/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			7/27/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N058018-011A	BEG0118-28	7/17/2023 10:07:00 AM	7/27/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			7/27/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N058018-012A	BEG0118-30	7/17/2023 10:15:00 AM	7/31/2023		EPA 1311	TCLP Sample Prep Metals	☐	☐	☐	WS-CA
			7/31/2023		EPA 3010A	AQPrep for Total Metals: ICP for STLC Extracts	☐	☐	☐	WS-CA
			7/31/2023		EPA 3010A	AQPrep for Total Metals	☐	☐	☐	WS-CA
			7/31/2023		WET/ EPA 6010B	ICP METALS by STLC	☐	☐	☐	WS-CA
			7/31/2023		EPA 1311/ 6010B	ICP METALS by TCLP Extraction	☐	☐	☐	WS-CA
			7/31/2023		WET	STLC Sample Prep Metals	☐	☐	☐	WS-CA
N058018-013A	BEG0118-31	7/17/2023 10:20:00 AM	7/27/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			7/27/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N058018-014A	BEG0118-33	7/17/2023 10:17:00 AM	7/31/2023		EPA 1311	TCLP Sample Prep Metals	☐	☐	☐	WS-CA

ASSET Laboratories

WORK ORDER Summary

27-Jul-23

WorkOrder: N058018

Client ID: AETL01

Project: BEG0118.01 **QC Level:** RTNE **Date Received:** 7/26/2023 10:14 AM

Comments: Total As 1-Day rush by 10 am as soon as possible. Please send Partial w/ 6020 - As.STLC/TCLP as 3-Day rush

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N058018-014A	BEG0118-33	7/17/2023 10:17:00 AM	7/31/2023	Soil	EPA 3010A	AQPrep for Total Metals: ICP for STLC Extracts	☐	☐	☐	WS-CA
			7/31/2023		EPA 3010A	AQPrep for Total Metals	☐	☐	☐	WS-CA
			7/31/2023		WET/ EPA 6010B	ICP METALS by STLC	☐	☐	☐	WS-CA
			7/31/2023		EPA 1311/ 6010B	ICP METALS by TCLP Extraction	☐	☐	☐	WS-CA
			7/31/2023		WET	STLC Sample Prep Metals	☐	☐	☐	WS-CA
N058018-015A	BEG0118-35	7/17/2023 10:48:00 AM	7/27/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			7/27/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N058018-016A	BEG0118-38	7/17/2023 10:56:00 AM	7/27/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			7/27/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N058018-017A	BEG0118-43	7/17/2023 11:11:00 AM	7/31/2023		EPA 1311	TCLP Sample Prep Metals	☐	☐	☐	WS-CA
			7/31/2023		EPA 3010A	AQPrep for Total Metals: ICP for STLC Extracts	☐	☐	☐	WS-CA
			7/31/2023		EPA 3010A	AQPrep for Total Metals	☐	☐	☐	WS-CA
			7/31/2023		WET/ EPA 6010B	ICP METALS by STLC	☐	☐	☐	WS-CA
			7/31/2023		EPA 1311/ 6010B	ICP METALS by TCLP Extraction	☐	☐	☐	WS-CA
			7/31/2023		WET	STLC Sample Prep Metals	☐	☐	☐	WS-CA
N058018-018A	BEG0118-44	7/17/2023 11:13:00 AM	7/31/2023		EPA 3010A	AQPrep for Total Metals: ICP for STLC Extracts	☐	☐	☐	WS-CA
			7/31/2023		WET/ EPA 6010B	ICP METALS by STLC	☐	☐	☐	WS-CA
			7/31/2023		WET	STLC Sample Prep Metals	☐	☐	☐	WS-CA
N058018-019A	BEG0118-47	7/17/2023 11:45:00 AM	7/31/2023		EPA 1311	TCLP Sample Prep Metals	☐	☐	☐	WS-CA
			7/31/2023		EPA 3010A	AQPrep for Total Metals: ICP for STLC Extracts	☐	☐	☐	WS-CA
			7/31/2023		EPA 3010A	AQPrep for Total Metals	☐	☐	☐	WS-CA

ASSET Laboratories

WORK ORDER Summary

27-Jul-23

WorkOrder: N058018

Client ID: AETL01

Project: BEG0118.01 **QC Level:** RTNE **Date Received:** 7/26/2023 10:14 AM

Comments: Total As 1-Day rush by 10 am as soon as possible. Please send Partial w/ 6020 - As.STLC/TCLP as 3-Day rush

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N058018-019A	BEG0118-47	7/17/2023 11:45:00 AM	7/31/2023	Soil	WET/ EPA 6010B	ICP METALS by STLC	☐	☐	☐	WS-CA
			7/31/2023		EPA 1311/ 6010B	ICP METALS by TCLP Extraction	☐	☐	☐	WS-CA
			7/31/2023		WET	STLC Sample Prep Metals	☐	☐	☐	WS-CA
N058018-020A	BEG0118-48	7/17/2023 11:46:00 AM	7/27/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			7/27/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N058018-021A	BEG0118-51	7/17/2023 12:02:00 PM	7/27/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			7/27/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N058018-022A	BEG0118-55	7/17/2023 12:12:00 PM	7/27/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			7/27/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N058018-023A	BEG0118-61	7/17/2023 12:51:00 PM	7/27/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			7/27/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N058018-024A	BEG0118-64	7/17/2023 1:04:00 PM	7/27/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			7/27/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N058018-025A	BEG0118-40	7/17/2023 11:03:00 AM					☐	☐	☐	WS-CA
N058018-026A	BEG0118-45	7/17/2023 11:15:00 AM					☐	☐	☐	WS-CA
N058018-027A	FOLDER	7/27/2023	7/27/2023		Folder	Folder	☐	☐	☐	LAB
			7/27/2023		Folder	Folder	☐	☐	☐	LAB

526 | LAX | 91100181

526 - 91100181

Shipper's Name and Address	Shipper's Account Number
ADVANCED TECHNOLOGY LABORATORIES 3151 W POST RD LAS VEGAS, NV 89118 US +1 (702) 307-2659	74299 - 1

Not Negotiable / Issued by

52691100181

Southwest Cargo

swacargo.com (800) 533-1222

Copies 1, 2 and 3 of this Air Waybill are originals and have the same validity.

Consignee's Name and Address	Consignee's Account Number
ADVANCED TECHNOLOGY LABORATORIES 3151 W POST RD LAS VEGAS, NV 89118 US +1 (702) 307-2659	74299 - 1

It is agreed that the goods described herein are accepted in apparent good order and condition (except as noted) for carriage **subject to Southwest Airlines' Contract of Carriage which is www.swacargo.com and any location where air waybills are available. Shipper's attention is drawn to the terms of the contract which includes, among other things; (1) Limits on Carriers' liability for loss, damage, or delay of goods, including fragile or perishable goods; (2) Claim restrictions, including time within which shippers or consignees must file a claim or bring an action against the carrier for its acts or omissions or those of its agents; (3) Right of the carrier to change the terms of the contract; (4) Rules about refusal to carry; and (5) Rights of the carrier and limitations, concerning delay or failure to perform service, including schedule changes, rerouting, substitution of an alternate carrier or aircraft, or means of carriage including road unless specific contrary instructions are given hereon by shipper, and shipper agrees the shipment may be carried via intermediate stopping places the carrier deems appropriate.** Shipper may increase liability limits by declaring a higher value for carriage and paying a supplemental charge if required.

Issuing Carrier's Agent Name and City

Accounting Information

Billed on 07/26/2023 12:25 PDT SWA ACCOUNT 74299

Agent's IATA Code	Account No.

Airport of Departure (Addr. of First Carrier) and Requested Routing

LOS ANGELES

Service Level - N

To	By First Carrier	To	By	To	By
LAS	SOUTHWEST AIRLINES				

Currency	CHGS Code	WT.VAL PPD	WT.VAL COLL	Other PPD	Other COLL	Declared Value for Carriage	Declared Value for Customs
USD	PP	X		X		100.00	

Airport of Destination	Flight Date (For Carrier Use Only)	Flight Date	Amount of Insurance
LAS	WN448 / 26JUL		

INSURANCE - If carrier offers insurance, and such insurance is requested in accordance with the conditions thereof, indicate amount to be insured in figures in box marked "Amount of Insurance".

HANDLING INFORMATION -

SCI

No. of Pieces RCP	Gross Weight	kg lb	Rate Class	Commodity Item No.	Chargeable Weight	Rate / Charge	Total	Nature and Quantity of Goods (Inc. Dimensions or Volume)
1	10	L	B	0000	10	As Agreed	*******	SOIL/WATER/AIR SAMPLES, SAMPLES FOR ENVIROMENTAL TESTING DIMS IN INCHES: 1 = 13 X 10 X 9
1	10						*******	

Prepaid	Weight Charge	Collect

Valuation Charge

Tax

Other Charges and Description

MYC 0.00 SCC 0.00

Total Other Charges Due Agent

Total Other Charges Due Carrier

Shipper certifies that the particulars on the face hereof are correct and that **insofar as any part of the consignment contains dangerous goods, such part is properly described by name and is in proper condition for carriage by air according to the applicable Dangerous Goods Regulations.** I consent that this shipment shall be subject to search by the Carrier.

MARIBEL RAMOS

Signature of Shipper or his Agent

Total Prepaid	Total Collect

Currency Conversion Rates	CC Charges in Dest.Currency	Executed on (date and time)	At (place)	Signature of Issuing Carrier or its Agent
		07/26/2023 12:25 PDT	LAX	E111649

For Carriers Use only at Destination	Charges at Destination	Total Collect Charges

526 - 91100181

ORIGINAL 2 (FOR CONSIGNEE)

AMERICAN ENVIRONMENTAL TESTING LABORATORY, LLC
2840 North Naomi Street, Burbank, CA 91504 • ELAP# 1541 • LACSD# 10181
Telephone (888) 288-AETL • (818) 845-8200 • www.aetlab.com
A KYZER LABS COMPANY

August 09, 2023

AETL Job No: BEG0118.02
Received Date: 07/17/2023
Project Number: [none]

Parsons
100 West Walnut Street
Pasadena, CA 91124
Telephone: (626) 440-6200

Attention: Justin King

Project Name: LAUSD Canoga

Site: Canoga Park High School
6850 CA-27
Canoga Park, CA 91303

Enclosed please find the results of analyses for samples which were analyzed as specified on the attached chain of custody. If you have any questions concerning this report, please do not hesitate to call.

Checked By: Hailley Coleman
Hailley Coleman
Project Manager

Approved By: Joe Sevrean
Joe Sevrean
Laboratory Director

Table of Contents

Client Project Name: Canoga Park High School Project Number: [none]
Work Order Number: BEG0118

1	Cover Letter	1
2	Sample Condition on Receipt	3
3	Chain of Custody	4
4	Cooler Receipt Forms	9
5	Case Narrative	10
6	Samples Received	11
7	Positive Hits Summary	14
8	Analytical Results	15
9	Quality Control Results	16
10	Qualifiers and Definitions	18
11	Sub Contracted Analysis	20

AMERICAN ENVIRONMENTAL TESTING LABORATORY, LLC
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Telephone (888) 288-AETL • (818) 845-8200 • www.aetlab.com
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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEG0118 [none] Justin King LAUSD Canoga	Site: Reported:	Canoga Park High School 6850 CA-27 Canoga Park, CA 91303 08/09/2023 14:58

Sample Condition on Receipt

Cooler ID: Default Cooler **Temperature: 5.8 °C**

Are the COCs Correct	Y		
Labels Legible	Y	Containers In Good Condition	Y
COC/Labels Agree	Y	Samples Preserved Properly	Y
Sufficient Sample Volume	Y	Sufficient Holding Time for all Tests	Y
Sample Labels intact	Y	Received on Ice	Y

Cooler ID: New Cooler **Temperature: 5.7 °C**

Are the COCs Correct	Y		
Labels Legible	Y	Containers In Good Condition	Y
COC/Labels Agree	Y	Samples Preserved Properly	Y
Sufficient Sample Volume	Y	Sufficient Holding Time for all Tests	Y
Sample Labels intact	Y	Received on Ice	Y

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

AMERICAN ENVIRONMENTAL TESTING LABORATORY
2840 N. NAOMI ST. BURBANK, CALIFORNIA 91504 ELAP# 1541 & 2402 LACSD# 10181
TEL (888) 288-AETL (818) 845-8200 FAX (818) 845-8840 www.aetlab.com
A KYZER LABS COMPANY

CHAIN OF CUSTODY RECORD

AETL JOB No. BEG00118 Page 1 of 5

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut Street. Pasadena, CA 91124
PHONE / EMAIL: (310) 809-5793
PROJECT NAME: LAUSD Canoga
PROJECT #:
SITE NAME AND ADDRESS: Canoga Park Highschool 6850 Canoga Park, CA 91303
PO #: 453413

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	STLC - Pb	TLCP - Pb	STLC - As	TLCP - As	TEST INSTRUCTIONS & COMMENTS
1	SB-38-SW-35-D0.5	01	7/17/2023	0720	Soil	1x 9oz	none		X					
2	SB-26-SW-10-D0.5	02	7-17-2023	0746	Soil	1x 9oz	none		X			X	X	~~Hold~~ EP.
3	SB-26-SW-10-D2.0	03	7-17-2023	0747	Soil	1x 9oz	none		X					Hold
4	SB-26-SW-10-D3.0	04	7-17-2023	0744	Soil	1x 9oz	none		X	EP.				Hold
5	SB-26-SW15-D0.5	05	7-17-2023	0814	Soil	1x 9oz	none		X			X		~~Hold~~ EP.
6	SB-26-SW15-D2.0	06	7-17-2023	0815	Soil	1x 9oz	none		X					Hold
7	SB-26-SW15-D3.0	07	7-17-2023	0816	Soil	1x 9oz	none							Hold
8	SB-26-E15-D0.5 Dup	08	7-17-2023	0823	Soil	~~1x 9oz~~ 1x 9oz	none		X			X		
9	SB-26-E15-D2.0	09	7-17-2023	0827	Soil	1x 9oz	none		X					Hold
10	SB-26-E15-D3.0	10	7-17-2023	0829	Soil	1x 9oz	none							Hold
11	SB-26-E15-D0.5 ~~Dup~~	11	7-17-2023	0823	Soil	1x 9oz	none		X			X		
12	SB-26-E10 D0.5	12	7-17-2023	0842	Soil	1x 9oz	none		X			X	X	
13	SB-26-E10 D2.0	13	7-17-2023	0846	Soil	1x 9oz	none		X					Hold
14	SB-26-E10 D3.0	14	7-17-2023	0849	Soil	1x 9oz	none							Hold
15														

EP

TOTAL NUMBER OF CONTAINERS: 14

BILLING INFORMATION / SPECIAL INSTRUCTIONS

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:	Signature:	Signature:
Printed Name: Edward Dabsys	Printed Name:	Printed Name:
Date: 7/17/2023 Time: 1550	Date: Time:	Date: Time:
RECEIVED BY: 1.	**RECEIVED BY:** 2.	**RECEIVED BY LABORATORY:** 3.
Signature:	Signature:	Signature:
Printed Name:	Printed Name:	Printed Name:
Date: Time:	Date: Time:	Date: 7/17/23 Time: 15:50

TURN AROUND TIME
- ☐ NORMAL
- ☐ SAME DAY RUSH
- ☐ NEXT DAY RUSH
- ☐ 2 DAYS RUSH
- ☑ 3 DAYS RUSH
- ☐ 4 DAYS RUSH

DATA DELIVERABLE REQUIRED
- ☐ HARD COPY
- ☐ E-COPY
- ☐ GEOTRACKER (GLOBAL ID) _____
- ☐ OTHER (PLEASE SPECIFY) _____

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

AMERICAN ENVIRONMENTAL TESTING LABORATORY
2840 N. NAOMI ST. BURBANK, CALIFORNIA 91504 ELAP# 1541 & 2402 LACSD# 10181
TEL (888) 288-AETL (818) 845-8200 FAX (818) 845-8840 www.aetlab.com
A KYZER LABS COMPANY

CHAIN OF CUSTODY RECORD

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut Street Pasadena, CA 91124
PHONE / EMAIL: (310) 809-5793
PROJECT NAME: LAUSD Canoga
PROJECT #:
SITE NAME AND ADDRESS: Canoga Park High school 6850 Canoga Park, CA 91303
PO #: CA27 453413
AETL JOB No.: BE-20118
Page 2 of 5

	SAMPLE ID	LAB ID (BE-20118)	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1	SB-26-E25-D0.5	15	7-17-2023	0900	Soil	1x4oz	none
2	SB-26-E25-D2.0	16	7-17-2023	0902	Soil	1x4oz	"
3	SB-26-E25-D3.0	17	7-17-2023	0904	Soil	1x4oz	"
4	SB-7-SW-25-D0.5	18		928			
5	SB-7-SW-25-D2.0	19		0931			
6	SB-7-SW-25-D3.0	20		0933			
7	SB-7-SW20-D0.5	21		0946			
8	SB-7-SW20-D2.0	22		0948			
9	SB-7-SW20-D3.0	23		0951			
10	SB-7-S20-D0.5	24		0955			
11	SB-7-S20-D2.0	25		0957			
12	SB-7-S20-D3.0	26		1000			
13	SB-5-W15-D0.5	27		1005			
14	SB-5-W15-D2.0	28		1007			
15	SB-5-W15-D3.0	29		1010			

ANALYSIS REQUESTED

Lead (6010B)	Arsenic (6020)	STLC-Pb	TCLP-Pb	STLC-As	TCLP-As					TEST INSTRUCTIONS & COMMENTS
	X			X						Hold
	X									Hold
	X									Hold
	X									
										1-Hold
										1-Hold
	X									
										Hold
										Hold
	X									
										Hold
										Hold
	X									
	X									Hold
										Hold

TOTAL NUMBER OF CONTAINERS: 15

BILLING INFORMATION / SPECIAL INSTRUCTIONS

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: E. Salazar	Signature:	Signature:
Printed Name: Edward Dabsys	Printed Name:	Printed Name:
Date: 7/17/2023 Time: 1540	Date: Time:	Date: Time:
RECEIVED BY: 1.	**RECEIVED BY:** 2.	**RECEIVED BY LABORATORY:** 3.
Signature:	Signature:	Signature:
Printed Name:	Printed Name:	Printed Name:
Date: Time:	Date: Time:	Date: 7/17/23 Time: 15:50

TURN AROUND TIME
- ☐ NORMAL
- ☐ SAME DAY RUSH
- ☐ NEXT DAY RUSH
- ☐ 2 DAYS RUSH
- ☑ 3 DAYS RUSH
- ☐ 4 DAYS RUSH

DATA DELIVERABLE REQUIRED
- ☐ HARD COPY
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- ☐ GEOTRACKER (GLOBAL ID) _____
- ☐ OTHER (PLEASE SPECIFY) _____

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

AMERICAN ENVIRONMENTAL TESTING LABORATORY
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TEL (888) 288-AETL (818) 845-8200 FAX (818) 845-8840 www.aetlab.com
A KYZER LABS COMPANY

CHAIN OF CUSTODY RECORD

AETL JOB No. BEG0118

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut Street Pasadena, CA 91124
PHONE EMAIL: (310) 809-5793
PROJECT NAME: LAUSD Canoga
PROJECT #:
SITE NAME AND ADDRESS: Canoga Park Highschool 6850 CA-27 Canoga Park, CA 91303
PO #: 453413

ANALYSIS REQUESTED

	SAMPLE ID	LAB ID BEG0118	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	STLC-Pb	TCLP-Pb	STLC-As	TCLP-As					TEST INSTRUCTIONS & COMMENTS
1	SB-5-E20-D0.5	30	7/17/2023	1015	Soil	1x 9oz	none		X			X	X					
2	SB-5-E20-D2.0	31		1020					X									Hold
3	SB-5-E20-D3.0	32		1022														Hold
4	SB-5-E20-D0.5DUP	33		1017					X			X	X					
5	SB-1-W10-D0.5	34		1046					X									
6	SB-1-W10-D2.0	35		1048					X									Hold
7	SB-1-W10-D3.0	36		1051														Hold
8	SB-1-SW20-D0.5	37		1054					X									
9	SB-1-SW20-D2.0	38		1056					X									Hold
10	SB-1-SW20-D3.0	39		1059														Hold
11	SB-3-S15-D0.5	40		1103				X		X	X							Hold
12	SB-3-S15-D2.0	41		1105				X										Hold
13	SB-3-S15-D3.0	42		1108														Hold
14	SB-3-S10-D0.5	43		1111				X		X	X							
15	SB-3-S10-D0.5DUP	44		1113				X		X								

TOTAL NUMBER OF CONTAINERS: 15

BILLING INFORMATION / SPECIAL INSTRUCTIONS

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: E. Galarza	Signature:	Signature:
Printed Name: Edward Dabsys	Printed Name:	Printed Name:
Date: 7/17/2023 Time: 1550	Date: Time:	Date: Time:

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: AETL 3.
Signature:	Signature:	Signature:
Printed Name:	Printed Name:	Printed Name: Cereta Caregosin
Date: Time:	Date: Time:	Date: 07/17/23 Time: 15:50

TURN AROUND TIME
- ☐ NORMAL
- ☐ SAME DAY RUSH
- ☐ NEXT DAY RUSH
- ☐ 2 DAYS RUSH
- ☑ 3 DAYS RUSH
- ☐ 4 DAYS RUSH

DATA DELIVERABLE REQUIRED
- ☐ HARD COPY
- ☐ E-COPY
- ☐ GEOTRACKER (GLOBAL ID) _____
- ☐ OTHER (PLEASE SPECIFY) _____

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

AMERICAN ENVIRONMENTAL TESTING LABORATORY
2840 N. NAOMI ST. BURBANK, CALIFORNIA 91504 ELAP# 1541 & 2402 LACSD# 10181
TEL (888) 288-AETL (818) 845-8200 FAX (818) 845-8840 www.aetlab.com
A KYZER LABS COMPANY

CHAIN OF CUSTODY RECORD

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut Street Pasadena, CA 91124
PHONE / EMAIL: (310) 809-5793
PROJECT NAME: LAUSD Canoga
PROJECT #:
SITE NAME AND ADDRESS: Canoga Park Highschool, 6850 CA-27 Canoga Park, CA 91303
PO #: 453413
AETL JOB No.: BE-Q0118
Page 4 of 5

	SAMPLE ID	LAB ID (BE-Q0118)	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1	SB-3-S10-D2.0	45	7/17/2023	1115	Soil	1x9oz	none
2	SB-3-S10-D3.0	46		1117			
3	SB-51-SW10-D0.5	47		1145			
4	SB-51-SW10-D2.0	48		1146			
5	SB-51-SW10-D3.0	49		1147			
6	SB-51-S10-D0.5	50		1201			
7	SB-51-S10-D2.0	51		1202			
8	SB-51-S10-D3.0	52		1203			
9	SB-51-SE10-D0.5	53		1211			
10	SB-51-SE10-D0.5 DUP	54		1211			
11	SB-51-SE10-D2.0	55		1212			
12	SB-51-SE10-D3.0	56		1213			
13	SB-51-SW10-D0.5	57		1223			
14	SB-51-SW10-D2.0	58		1226			
15	SB-51-SW10-D3.0	59		1230			

TOTAL NUMBER OF CONTAINERS: 15

ANALYSIS REQUESTED

Lead (6010B)	Arsenic (6020)	STLC-Pb	TLCP-Pb	STLC-As	TLCP-As					TEST INSTRUCTIONS & COMMENTS
X										Hold
										Hold
	X			X	X					
	X			X	X					Hold
	X			X	X					Hold
	X									
	X									Hold
										Hold
	X									
	X									
	X									Hold
										Hold
	#2	E.D.								Hold
										Hold
										Hold

BILLING INFORMATION / SPECIAL INSTRUCTIONS

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: E Salazar	Signature:	Signature:
Printed Name: Edward Salazar	Printed Name:	Printed Name:
Date: 7/17/2023 Time: 1550	Date: Time:	Date: Time:
RECEIVED BY: 1.	**RECEIVED BY:** 2.	**RECEIVED BY LABORATORY:** 3.
Signature:	Signature:	Signature:
Printed Name:	Printed Name:	Printed Name:
Date: Time:	Date: Time:	Date: 7/17/23 Time: 18:50

TURN AROUND TIME
- ☐ NORMAL
- ☐ SAME DAY RUSH
- ☐ NEXT DAY RUSH
- ☐ 2 DAYS RUSH
- ☑ 3 DAYS RUSH
- ☐ 4 DAYS RUSH

DATA DELIVERABLE REQUIRED
- ☐ HARD COPY
- ☐ E-COPY
- ☐ GEOTRACKER (GLOBAL ID) _____
- ☐ OTHER (PLEASE SPECIFY) _____

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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CHAIN OF CUSTODY RECORD

AETL JOB No. BEC0118

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut street Pasadena, CA 91124
PHONE EMAIL: (310) 809-5793
PROJECT NAME: LAUSD Canoga
PROJECT #: 453413
SITE NAME AND ADDRESS: Canoga Park Highschool 6850 CA-27 Canoga Park, CA 91303
PO #:

ANALYSIS REQUESTED

	SAMPLE ID	LAB ID BEC0118	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	STLC-Pb	TCLP-Pb	STLC-As	TCLP-As					TEST INSTRUCTIONS & COMMENTS
1	SB-44-S20-D0.5	60	7/17/2023	1250	soil	1X 9oz	none		X									
2	SB-44-S20-D2.0	61		1251					X			X						Hold
3	SB-44-S20-D3.0	62		1252					X									Hold
4	SB-44-N20-D0.5	63		1301					X			X						
5	SB-44-N20-D2.0	64		1304					X			X						Hold
6	SB-44-N20-D3.0	65		1306					X									Hold
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		

TOTAL NUMBER OF CONTAINERS: 6

BILLING INFORMATION / SPECIAL INSTRUCTIONS

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: E. Galvez	Signature:	Signature:
Printed Name: Edward Dobys	Printed Name:	Printed Name:
Date: 7/17/2023 Time: 1550	Date: Time:	Date: Time:

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: 3.
Signature:	Signature:	Signature: AETL
Printed Name:	Printed Name:	Printed Name: Greta Pirosporin
Date: Time:	Date: Time:	Date: 7/17/23 Time: 15:50

TURN AROUND TIME
- ☐ NORMAL
- ☐ SAME DAY RUSH
- ☐ NEXT DAY RUSH
- ☐ 2 DAYS RUSH
- ☑ 3 DAYS RUSH
- ☐ 4 DAYS RUSH

DATA DELIVERABLE REQUIRED
- ☐ HARD COPY
- ☐ E-COPY
- ☐ GEOTRACKER (GLOBAL ID) _____
- ☐ OTHER (PLEASE SPECIFY) _____

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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COOLER RECEIPT FORM

Client Name: Parsons

Project Name: LAUSD Canoga Project No.:

AETL Job Number: BEG0118

Date Received: 07/17/2023 Received by: Greta G

Carrier: ☐ AETL Courier ☑ Client ☐ GSL ☐ FedEx ☐ UPS
☐Others:

Samples were received in: ☑ Cooler (__2_____) ☐ Other (Specify):

Sample Container Temperature: __5.8__ °C IR Gun S/N: 51941911MV

Type of sample containers: ☐ VOA, ☐ Glass bottles, ☑Wide mouth jars, ☐HDPE bottles, ☐ Metal sleeves, ☐ Acetate sleeves, ☐ 5035 Kit: ☐ AETL or ☐ Client, ☐ Tedlar Bags, Summa Canister: ☐ 6L, ☐ 3L, ☐ 1L, Others (Specify): _____

How are samples preserved: ☐ None, ☑ Ice, ☐ Blue Ice, ☐ Dry Ice
☑ None, ☐ HNO_3, ☐ NaOH, ☐ ZnOAc, ☐ HCl, ☐ $Na_2S_2O_3$, ☐ MeOH, ☐ $NaHSO_4$
☐ Other (Specify):

	Yes	No	N/A	Note or Comment
1. Are the COCs Correct?	✔			
2. Are Sample labels legible & indelible ink?	✔			
3. Do samples match the COC?	✔			
4. Are the required analyses clear?	✔			
5. Is there enough samples for required analysis?	✔			
6. Does cooler or samples have custody seal(s)?			✔	
7. Are sample containers in good condition?	✔			
8. Are samples preserved?	✔			
9. Are samples preserved properly for the intended analysis?	✔			
10. Are the VOAs free of headspace? See footnote.			✔	
11. Are the jars free of headspace?			✔	

* = see note below. N/A = Not Applicable

PLEASE NOTE ALL SAMPLES WILL BE DISPOSED OF 30 DAYS AFTER RECEIVING DATE. IF AETL IS INFORMED OTHERWISE, THERE WILL BE A STORAGE CHARGE PER SAMPLE PER MONTH FOR ANY SAMPLE HELD BEYOND 30 DAYS.

◯ Example maximum headspace bubble size; acceptance criteria not to exceed 5-6 mm in diameter.

For headspace bubbles exceeding 6 mm in diameter, sample receiving will tag the VOA and notify the Project Manager. The Project Manager will contact client for Analyze or Resample instructions.

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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEG0118 [none] Justin King LAUSD Canoga	Site: Reported:	Canoga Park High School 6850 CA-27 Canoga Park, CA 91303 08/09/2023 14:58

Case Narrative

The following "Sample Received" Section summarizes the samples received and associated analyses requested as specified on the enclosed chain of custody.

Results as reported by the laboratory apply only to 1) the items tested, 2) as the samples are received, and 3) the accuracy of information provided. Information supplied by the customer that may affect validity of results and may be contained in this report include Project Name/Number, Site Location, Sample Locations, Sampling Dates/Times, Sample ID, Sample Preservation, Sample Matrix, Sample Properties, Field Blanks, Field Duplicates, Field Spikes, and Site Historical Data.

Accreditation applies only to the test methods listed on each scope of accreditation held by the laboratory; certifications held by the laboratory may not apply to results supplied in this report.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

Qualifiers are noted in the report.

The samples were subcontracted to Asset Laboratories for EPA 6020, STLC, and TCLP. Please see attached report for results.

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

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Parsons	AETL Job Number:	BEG0118	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LAUSD Canoga	Reported:	08/09/2023 14:58	

Samples Received

AETL received the following samples on 07/17/2023 with the following specifications

Client ID: SB-26-E25-D0.5 — **Sample Date:** 07/17/2023 9:00

Lab ID	Matrix	Quantity of Containers
BEG0118-15	Soil	3

Method	Analyte	Units	TAT
EPA 6010B-STLC	STLC Arsenic by ICP	mg/L	5

Client ID: SB-26-E25-D2.0 — **Sample Date:** 07/17/2023 9:02

Lab ID	Matrix	Quantity of Containers
BEG0118-16	Soil	2

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Client ID: SB-3-S15-D0.5 — **Sample Date:** 07/17/2023 11:03

Lab ID	Matrix	Quantity of Containers
BEG0118-40	Soil	3

Method	Analyte	Units	TAT
EPA 6010B-1311 TCLP	TCLP Lead by ICP	mg/L	5
EPA 6010B-STLC	STLC Lead by ICP	mg/L	5

Client ID: SB-3-S15-D2.0 — **Sample Date:** 07/17/2023 11:05

Lab ID	Matrix	Quantity of Containers
BEG0118-41	Soil	1

Method	Analyte	Units	TAT
EPA 6010B	Lead, total by ICP	mg/kg	5

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Parsons	AETL Job Number:	BEG0118	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LAUSD Canoga	Reported:	08/09/2023 14:58	

Samples Received

(Continued)

AETL received the following samples on 07/17/2023 with the following specifications

Client ID SB-51-SW10-D2.0 — **Sample Date** 07/17/2023 11:46

Lab ID BEG0118-48 — **Matrix** Soil — **Quantity of Containers** 3

Method	Analyte	Units	TAT
EPA 6010B-1311 TCLP	TCLP Arsenic by ICP	mg/L	5
EPA 6010B-STLC	STLC Arsenic by ICP	mg/L	5

Client ID SB-51-SW10-D3.0 — **Sample Date** 07/17/2023 11:47

Lab ID BEG0118-49 — **Matrix** Soil — **Quantity of Containers** 2

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Client ID SB-44-S20-D2.0 — **Sample Date** 07/17/2023 12:51

Lab ID BEG0118-61 — **Matrix** Soil — **Quantity of Containers** 3

Method	Analyte	Units	TAT
EPA 6010B-STLC	STLC Arsenic by ICP	mg/L	5

Client ID SB-44-S20-D3.0 — **Sample Date** 07/17/2023 12:52

Lab ID BEG0118-62 — **Matrix** Soil — **Quantity of Containers** 2

Method	Analyte	Units	TAT

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Parsons	AETL Job Number:	BEG0118	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LAUSD Canoga	Reported:	08/09/2023 14:58	

Samples Received
(Continued)

AETL received the following samples on 07/17/2023 with the following specifications

EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Client ID: SB-44-N20-D2.0 **Sample Date:** 07/17/2023 13:04
Lab ID: BEG0118-64 **Matrix:** Soil **Quantity of Containers:** 2

Method	Analyte	Units	TAT
EPA 6010B-STLC	STLC Arsenic by ICP	mg/L	5

Client ID: SB-44-N20-D3.0 **Sample Date:** 07/17/2023 13:06
Lab ID: BEG0118-65 **Matrix:** Soil **Quantity of Containers:** 2

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Total Number of Samples received: 10

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEG0118 [none] Justin King LAUSD Canoga	Site: Reported:	Canoga Park High School 6850 CA-27 Canoga Park, CA 91303 08/09/2023 14:58

Positive Hits Summary

Lab ID	Client ID				Sampled
BEG0118-41	SB-3-S15-D2.0				07/17/2023 11:05
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Lead	3.58	J	mg/kg	07/31/2023 12:32

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Parsons	AETL Job Number:	BEG0118	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LAUSD Canoga	Reported:	08/09/2023 14:58	

Analytical Results

Client ID: SB-3-S15-D2.0
Lab ID: BEG0118-41 (Soil) **Sampled:** 07/17/23 11:05

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Metals Total											
Method: EPA 6010B											
Lead	**3.58**	J	1	0.550	5.00	mg/kg	07/28/23 10:05	07/31/23 12:32	B3G0396	LC	3050B

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Parsons	AETL Job Number:	BEG0118	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LAUSD Canoga	Reported:	08/09/2023 14:58	

Quality Control Results

Metals Total (EPA 6010B)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3G0396 - 3050B					**Prepared: 07/28/2023 08:31**						
Method Blank (B3G0396-BLK1)					**Analyzed: 07/31/2023 11:31**						
Lead	ND	0.550	5.00	mg/kg							

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Parsons	AETL Job Number:	BEG0118	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LAUSD Canoga	Reported:	08/09/2023 14:58	

Quality Control Results

Metals Total (EPA 6010B)

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3G0396 - 3050B (Continued)				**Prepared: 07/28/2023 08:31**						
LCS (B3G0396-BS1)				**Analyzed: 07/31/2023 11:34**						
Lead	96.5	5.00	mg/kg	96.2		100	75-125			
LCSD (B3G0396-BSD1)				**Analyzed: 07/31/2023 11:37**						
Lead	96.6	5.00	mg/kg	97.1		99.4	75-125	0.0257	15	
Duplicate (B3G0396-DUP1)		**Source: BEG0220-09**		**Analyzed: 07/31/2023 11:43**						
Lead	14.6	0.550	5.00 mg/kg		13.7			5.86	20	
Matrix Spike (B3G0396-MS1)		**Source: BEG0220-09**		**Analyzed: 07/31/2023 11:46**						
Lead	106	0.550	5.00 mg/kg	99.0	13.7	92.9	75-125			
Matrix Spike Dup (B3G0396-MSD1)		**Source: BEG0220-09**		**Analyzed: 07/31/2023 11:49**						
Lead	104	0.550	5.00 mg/kg	99.0	13.7	91.3	75-125	1.55	15	

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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEG0118 [none] Justin King LAUSD Canoga	Site: Reported:	Canoga Park High School 6850 CA-27 Canoga Park, CA 91303 08/09/2023 14:58

Qualifiers and Definitions

Item	Qualifiers
J	Analyte was detected. However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Reporting Limit (RL).

Item	Definitions
% wt	Percent Weight
%REC	Percent Recovery
°F	Degrees Fahrenheit
AETL	American Environmental Testing Laboratory, LLC
C	Carbon
CARB	California Air Resources Board
COC	Chain of Custody
Cresols	3-methylphenol/4-methylphenol coelute and cannot be chromatographically separated. Due to this coeluting isomer pair phenomenon, the laboratory uses a single cresol (4-methylphenol) as calibration standard for 3-methylphenol/4-methylphenol.
CRM	Certified Reference Material
DI	Deionized Water
DPD	Department of Planning and Development
DRO	Diesel Range Organics
Dup	Duplicate
ELAP	Environmental Laboratory Accreditation Program
EPA	Environmental Protection Agency
GC/FID	Gas Chromatography Flame Ionization Detection
GRO	Gasoline Range Organics
HC	Hydrocarbon
HEM	Hexane Extractable Material
HMU	Hazardous Material Unit
ICP/MS	Inductively Coupled Plasma Mass Spectrometry
LACSD	Los Angeles County Sanitation Districts
LCS	Laboratory Control Sample - A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes.
LCSD	Laboratory Control Sample Duplicate - A replicate of Laboratory Control Sample.
LOQ	Limit of Quantitation
MDL	Method Detection Limit - The minimum measured concentration of a substance that can be reported with 99% confidence. MDL is statistically derived number which is specific for each instrument, each method and each compound.
mg/kg	Miligrams per Kilogram
mg/L	Miligrams per Liter
ml/L/hr	Milliliter per Liter per Hour
MRO	Motor oil Range Organics

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Parsons	AETL Job Number:	BEG0118	Site:	Canoga Park High School
100 West Walnut Street	Project Number:	[none]		6850 CA-27
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303
	Project Name:	LAUSD Canoga	Reported:	08/09/2023 14:58

MS	Matrix Spike - A sample prepared, taken through all sample preparation and analytical steps of the procedure and analyzed as an independent test results.
MSD	Matrix Spike Duplicate - A replicate of Matrix Spike Sample.
N	No
ND	Analyte is not detected below Method Detection Limit.
ng/m3	Nanograms per cubic meter
NIOSH	National Institute for Occupational Safety and Health
nL/L	Nanoliters per Liter
NTU	Nephelometric Turbidity Units
Ohm-cm	Ohms per centimeter
ORO	Oil Range Organics
OSHA	Occupational Safety and Health Administration
PCB	Polychlorinated Biphenyl
ppb v	Parts per billion by volume
ppmC	Parts per million Carbon
PSU	Practical Salinity Unit
RL	Reporting Limit - The lowest concentration at which an analyte can be detected in a sample and its concentration can be reported with a specified degree of confidence, accuracy and precision. For usage at AETL, RL is equivalant to LOQ.
RPD	Relative Percent Difference
SIM	Selective Ion Monitoring
SM	Standard Method
SPLP	Synthetic Precipitation Leaching Procedure
STLC	Soluble Threshold Limit Concentration
TCLP	Toxicity Characteristic Leaching Procedure
TPH	Total Petroleum Hydrocarbons
TTLC	Total Threshold Limit Concentrations
ug/kg	Micrograms per Kilogram
ug/L	Micrograms per Liter
ug/m3	Micrograms per cubic meter
WET	Waste Extraction Test
Y	Yes
ZHE	Zero Headspace Extraction

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August 09, 2023

Hailley Coleman
American Environmental Testing Laboratory, Inc.
2834 N. Naomi Street
Burbank, CA 91504

TEL: (818) 845-8200
FAX:

Workorder No.: N058149

RE: BEG0118.02

Attention: Hailley Coleman

Enclosed are the results for sample(s) received on July 31, 2023 by ASSET Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562) 219-7435 if I can be of further assistance to your company.

Sincerely,

Ferdinand Paul Lugtu
Laboratory Director

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CLIENT: American Environmental Testing Laborator
Project: BEG0118.02
Lab Order: N058149

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

All sample containers were received intact with proper chain of custody documentation.

Information on sample receipt conditions including discrepancies can be found in attached Sample Receipt Checklist Form.

Cooler temperature and sample preservation were verified upon receipt of samples if applicable.

Samples were analyzed within method holding time.

Analytical comments for EPA 6020:

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria possibly due to matrix interference. The associated Laboratory Control Sample (LCS) recovery was acceptable.

Analytical comments for EPA 1311/ 6010B:

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria possibly due to matrix interference. The associated Laboratory Control Sample (LCS) recovery was acceptable.

Analytical comments for WET/ EPA 6010B:

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria possibly due to matrix interference. The associated Laboratory Control Sample (LCS) recovery was acceptable.

ASSET Laboratories

Date: *09-Aug-23*

CLIENT: American Environmental Testing Laborator
Project: BEG0118.02
Lab Order: N058149
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N058149-001A	BEG0118-15	Soil	7/17/2023 9:00:00 AM	7/31/2023	8/9/2023
N058149-002A	BEG0118-16	Soil	7/17/2023 9:02:00 AM	7/31/2023	8/9/2023
N058149-003A	BEG0118-40	Soil	7/17/2023 11:03:00 AM	7/31/2023	8/9/2023
N058149-004A	BEG0118-48	Soil	7/17/2023 11:46:00 AM	7/31/2023	8/9/2023
N058149-005A	BEG0118-49	Soil	7/17/2023 11:47:00 AM	7/31/2023	8/9/2023
N058149-006A	BEG0118-61	Soil	7/17/2023 12:51:00 PM	7/31/2023	8/9/2023
N058149-007A	BEG0118-62	Soil	7/17/2023 12:52:00 PM	7/31/2023	8/9/2023
N058149-008A	BEG0118-64	Soil	7/17/2023 1:04:00 PM	7/31/2023	8/9/2023
N058149-009A	BEG0118-65	Soil	7/17/2023 1:06:00 PM	7/31/2023	8/9/2023

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEG0118-15
Lab Order:	N058149		
Project:	BEG0118.02	**Collection Date:**	7/17/2023 9:00:00 AM
Lab ID:	N058149-001	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS BY STLC						
	EPA 3010A			**WET/ EPA 6010B**		
RunID: CA01638-ICP01_230807C	QC Batch: 101348			PrepDate:	8/7/2023	Analyst: **PL**
Arsenic	5.0	0.25		mg/L	5	8/7/2023 03:17 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEG0118-16
Lab Order:	N058149		
Project:	BEG0118.02	**Collection Date:**	7/17/2023 9:02:00 AM
Lab ID:	N058149-002	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230801B	QC Batch: 101203			PrepDate:	8/1/2023	Analyst: **DJ**
Arsenic	18	0.50		mg/Kg	1	8/1/2023 08:04 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEG0118-40
Lab Order:	N058149		
Project:	BEG0118.02	**Collection Date:**	7/17/2023 11:03:00 AM
Lab ID:	N058149-003	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS BY STLC						
EPA 3010A				**WET/ EPA 6010B**		
RunID: CA01638-ICP01_230807C QC Batch: 101348				PrepDate:	8/7/2023	Analyst: **PL**
Lead	1.8	0.25		mg/L	5	8/7/2023 03:20 PM
ICP METALS BY TCLP EXTRACTION						
EPA 3010A				**EPA 1311/ 6010B**		
RunID: CA01638-ICP01_230808C QC Batch: 101411				PrepDate:	8/8/2023	Analyst: **PL**
Lead	ND	0.050		mg/L	1	8/9/2023 02:55 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: American Environmental Testing Laborator **Client Sample ID:** BEG0118-48
Lab Order: N058149
Project: BEG0118.02 **Collection Date:** 7/17/2023 11:46:00 AM
Lab ID: N058149-004 **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS BY STLC						
EPA 3010A				**WET/ EPA 6010B**		
RunID: CA01638-ICP01_230807C QC Batch: 101348				PrepDate:	8/7/2023	Analyst: **PL**
Arsenic	17	0.25		mg/L	5	8/7/2023 03:23 PM
ICP METALS BY TCLP EXTRACTION						
EPA 3010A				**EPA 1311/ 6010B**		
RunID: CA01638-ICP01_230808C QC Batch: 101411				PrepDate:	8/8/2023	Analyst: **PL**
Arsenic	3.6	0.050		mg/L	1	8/9/2023 02:58 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEG0118-49
Lab Order:	N058149		
Project:	BEG0118.02	**Collection Date:**	7/17/2023 11:47:00 AM
Lab ID:	N058149-005	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230801B	QC Batch: 101203			PrepDate:	8/1/2023	Analyst: **DJ**
Arsenic	210	2.5		mg/Kg	5	8/1/2023 08:55 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEG0118-61
Lab Order:	N058149		
Project:	BEG0118.02	**Collection Date:**	7/17/2023 12:51:00 PM
Lab ID:	N058149-006	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS BY STLC						
EPA 3010A				**WET/ EPA 6010B**		
RunID: CA01638-ICP01_230807C	QC Batch: 101348			PrepDate:	8/7/2023	Analyst: **PL**
Arsenic	3.5	0.25		mg/L	5	8/7/2023 03:26 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEG0118-62
Lab Order:	N058149		
Project:	BEG0118.02	**Collection Date:**	7/17/2023 12:52:00 PM
Lab ID:	N058149-007	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230801B	QC Batch: 101203			PrepDate:	8/1/2023	Analyst: **DJ**
Arsenic	5.2	0.50		mg/Kg	1	8/1/2023 08:46 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEG0118-64
Lab Order:	N058149		
Project:	BEG0118.02	**Collection Date:**	7/17/2023 1:04:00 PM
Lab ID:	N058149-008	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS BY STLC						
EPA 3010A				**WET/ EPA 6010B**		
RunID: CA01638-ICP01_230807C	QC Batch: 101348			PrepDate:	8/7/2023	Analyst: **PL**
Arsenic	2.4	0.25		mg/L	5	8/7/2023 03:29 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEG0118-65
Lab Order:	N058149		
Project:	BEG0118.02	**Collection Date:**	7/17/2023 1:06:00 PM
Lab ID:	N058149-009	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230801B	QC Batch: 101203			PrepDate:	8/1/2023	Analyst: **DJ**
Arsenic	7.7	0.50		mg/Kg	1	8/1/2023 08:50 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: American Environmental Testing Laboratory, Inc.
Work Order: N058149
Project: BEG0118.02

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_S_PPM

Sample ID: **MB-101203**	SampType: **MBLK**	TestCode: **6020_S_PPM**	Units: **mg/Kg**	Prep Date: **8/1/2023**	RunNo: **174485**
Client ID: **PBS**	Batch ID: **101203**	TestNo: **EPA 6020**	**EPA 3050B**	Analysis Date: **8/1/2023**	SeqNo: **5320124**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.50									

Sample ID: **LCS-101203**	SampType: **LCS**	TestCode: **6020_S_PPM**	Units: **mg/Kg**	Prep Date: **8/1/2023**	RunNo: **174485**
Client ID: **LCSS**	Batch ID: **101203**	TestNo: **EPA 6020**	**EPA 3050B**	Analysis Date: **8/1/2023**	SeqNo: **5320125**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	4.939	0.50	5.000	0	98.8	85	115				

Sample ID: **N058149-002A-MS**	SampType: **MS**	TestCode: **6020_S_PPM**	Units: **mg/Kg**	Prep Date: **8/1/2023**	RunNo: **174485**
Client ID: **ZZZZZZ**	Batch ID: **101203**	TestNo: **EPA 6020**	**EPA 3050B**	Analysis Date: **8/1/2023**	SeqNo: **5320129**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.322	0.50	4.978	18.32	0.147	75	125				S

Sample ID: **N058149-002A-MSD**	SampType: **MSD**	TestCode: **6020_S_PPM**	Units: **mg/Kg**	Prep Date: **8/1/2023**	RunNo: **174485**
Client ID: **ZZZZZZ**	Batch ID: **101203**	TestNo: **EPA 6020**	**EPA 3050B**	Analysis Date: **8/1/2023**	SeqNo: **5320130**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	17.890	0.50	4.990	18.32	-8.52	75	125	18.32	2.39	20	S

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: American Environmental Testing Laboratory, Inc.
Work Order: N058149
Project: BEG0118.02

ANALYTICAL QC SUMMARY REPORT

TestCode: CA_6010_ST

Sample ID: **LCS-101348** SampType: **LCS** TestCode: **CA_6010_ST** Units: **mg/L** Prep Date: **8/7/2023** RunNo: **174751**
Client ID: **LCSS** Batch ID: **101348** TestNo: **WET/ EPA 60 EPA 3010A** Analysis Date: **8/7/2023** SeqNo: **5340191**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.496	0.050	0.5000	0	99.2	85	115				
Lead	0.491	0.050	0.5000	0	98.3	85	115				

Sample ID: **MB-101348** SampType: **MBLK** TestCode: **CA_6010_ST** Units: **mg/L** Prep Date: **8/7/2023** RunNo: **174751**
Client ID: **PBS** Batch ID: **101348** TestNo: **WET/ EPA 60 EPA 3010A** Analysis Date: **8/7/2023** SeqNo: **5340192**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.050									
Lead	ND	0.050									

Sample ID: **MB-101218 STLC** SampType: **MBLK** TestCode: **CA_6010_ST** Units: **mg/L** Prep Date: **8/7/2023** RunNo: **174751**
Client ID: **PBS** Batch ID: **101348** TestNo: **WET/ EPA 60 EPA 3010A** Analysis Date: **8/7/2023** SeqNo: **5340197**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.036	0.25									
Lead	ND	0.25									

Sample ID: **MB-101315 STLC** SampType: **MBLK** TestCode: **CA_6010_ST** Units: **mg/L** Prep Date: **8/7/2023** RunNo: **174751**
Client ID: **PBS** Batch ID: **101348** TestNo: **WET/ EPA 60 EPA 3010A** Analysis Date: **8/7/2023** SeqNo: **5340198**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.034	0.25									
Lead	ND	0.25									

Sample ID: **MB-101271 STLC** SampType: **MBLK** TestCode: **CA_6010_ST** Units: **mg/L** Prep Date: **8/7/2023** RunNo: **174751**
Client ID: **PBS** Batch ID: **101348** TestNo: **WET/ EPA 60 EPA 3010A** Analysis Date: **8/7/2023** SeqNo: **5340199**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.031	0.25									

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: American Environmental Testing Laboratory, Inc.
Work Order: N058149
Project: BEG0118.02

ANALYTICAL QC SUMMARY REPORT

TestCode: CA_6010_ST

Sample ID: **MB-101271 STLC**	SampType: **MBLK**	TestCode: **CA_6010_ST**	Units: **mg/L**	Prep Date: **8/7/2023**	RunNo: **174751**
Client ID: **PBS**	Batch ID: **101348**	TestNo: **WET/ EPA 60**	**EPA 3010A**	Analysis Date: **8/7/2023**	SeqNo: **5340199**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: **N058044-001B-MS**	SampType: **MS**	TestCode: **CA_6010_ST**	Units: **mg/L**	Prep Date: **8/7/2023**	RunNo: **174751**
Client ID: **ZZZZZZ**	Batch ID: **101348**	TestNo: **WET/ EPA 60**	**EPA 3010A**	Analysis Date: **8/7/2023**	SeqNo: **5340203**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.604	0.25	0.5000	0.06320	108	75	125				
Lead	0.590	0.25	0.5000	0.1354	90.9	75	125				

Sample ID: **N058044-001B-MSD**	SampType: **MSD**	TestCode: **CA_6010_ST**	Units: **mg/L**	Prep Date: **8/7/2023**	RunNo: **174751**
Client ID: **ZZZZZZ**	Batch ID: **101348**	TestNo: **WET/ EPA 60**	**EPA 3010A**	Analysis Date: **8/7/2023**	SeqNo: **5340204**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.607	0.25	0.5000	0.06320	109	75	125	0.6043	0.446	20	
Lead	0.596	0.25	0.5000	0.1354	92.1	75	125	0.5896	1.09	20	

Sample ID: **N058134-002A-DUP**	SampType: **DUP**	TestCode: **CA_6010_ST**	Units: **mg/L**	Prep Date: **8/7/2023**	RunNo: **174751**
Client ID: **ZZZZZZ**	Batch ID: **101348**	TestNo: **WET/ EPA 60**	**EPA 3010A**	Analysis Date: **8/7/2023**	SeqNo: **5340209**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.155	0.25						0.1490	0	20	
Lead	1.255	0.25						1.252	0.199	20	

Sample ID: **N058171-001A-DUP**	SampType: **DUP**	TestCode: **CA_6010_ST**	Units: **mg/L**	Prep Date: **8/7/2023**	RunNo: **174751**
Client ID: **ZZZZZZ**	Batch ID: **101348**	TestNo: **WET/ EPA 60**	**EPA 3010A**	Analysis Date: **8/7/2023**	SeqNo: **5340216**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.137	0.25						0.1512	0	20	
Lead	3.743	0.25						4.643	21.5	20	R

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: American Environmental Testing Laboratory, Inc.
Work Order: N058149
Project: BEG0118.02

ANALYTICAL QC SUMMARY REPORT

TestCode: CA_6010_ST

Sample ID: **MB-101318 STLC** SampType: **MBLK** TestCode: **CA_6010_ST** Units: **mg/L** Prep Date: **8/7/2023** RunNo: **174751**
Client ID: **PBS** Batch ID: **101348** TestNo: **WET/ EPA 60 EPA 3010A** Analysis Date: **8/7/2023** SeqNo: **5340224**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.041	0.25									
Lead	ND	0.25									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: American Environmental Testing Laboratory, Inc.
Work Order: N058149
Project: BEG0118.02

ANALYTICAL QC SUMMARY REPORT

TestCode: CA_6010_ST

Sample ID: **LCS-101411**	SampType: **LCS**	TestCode: **CA_6010_ST**	Units: **mg/L**	Prep Date: **8/8/2023**	RunNo: **174757**
Client ID: **LCSS**	Batch ID: **101411**	TestNo: **WET/ EPA 60**	**EPA 3010A**	Analysis Date: **8/8/2023**	SeqNo: **5340712**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.539	0.050	0.5000	0	108	85	115				

Sample ID: **MB-101411**	SampType: **MBLK**	TestCode: **CA_6010_ST**	Units: **mg/L**	Prep Date: **8/8/2023**	RunNo: **174757**
Client ID: **PBS**	Batch ID: **101411**	TestNo: **WET/ EPA 60**	**EPA 3010A**	Analysis Date: **8/8/2023**	SeqNo: **5340713**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.050									

Sample ID: **MB-101335 STLC**	SampType: **MBLK**	TestCode: **CA_6010_ST**	Units: **mg/L**	Prep Date: **8/8/2023**	RunNo: **174757**
Client ID: **PBS**	Batch ID: **101411**	TestNo: **WET/ EPA 60**	**EPA 3010A**	Analysis Date: **8/8/2023**	SeqNo: **5340714**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: **N058297-001B-MS**	SampType: **MS**	TestCode: **CA_6010_ST**	Units: **mg/L**	Prep Date: **8/8/2023**	RunNo: **174757**
Client ID: **ZZZZZZ**	Batch ID: **101411**	TestNo: **WET/ EPA 60**	**EPA 3010A**	Analysis Date: **8/8/2023**	SeqNo: **5340718**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	4.432	0.25	0.5000	1.883	510	75	125				S

Sample ID: **N058297-001B-MSD**	SampType: **MSD**	TestCode: **CA_6010_ST**	Units: **mg/L**	Prep Date: **8/8/2023**	RunNo: **174757**
Client ID: **ZZZZZZ**	Batch ID: **101411**	TestNo: **WET/ EPA 60**	**EPA 3010A**	Analysis Date: **8/8/2023**	SeqNo: **5340719**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	4.494	0.25	0.5000	1.883	522	75	125	4.432	1.38	20	S

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: American Environmental Testing Laboratory, Inc.
Work Order: N058149
Project: BEG0118.02

ANALYTICAL QC SUMMARY REPORT

TestCode: CA_6010_TC

Sample ID: **MB-100879 TCLP**	SampType: **MBLK**	TestCode: **CA_6010_TC**	Units: **mg/L**	Prep Date: **8/8/2023**	RunNo: **174790**
Client ID: **PBS**	Batch ID: **101411**	TestNo: **EPA 1311/ 60 EPA 3010A**		Analysis Date: **8/9/2023**	SeqNo: **5343554**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.005	0.050									
Lead	ND	0.050									

Sample ID: **MB-101220 TCLP**	SampType: **MBLK**	TestCode: **CA_6010_TC**	Units: **mg/L**	Prep Date: **8/8/2023**	RunNo: **174790**
Client ID: **PBS**	Batch ID: **101411**	TestNo: **EPA 1311/ 60 EPA 3010A**		Analysis Date: **8/9/2023**	SeqNo: **5343558**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.004	0.050									
Lead	ND	0.050									

Sample ID: **LCS-101411**	SampType: **LCS**	TestCode: **CA_6010_TC**	Units: **mg/L**	Prep Date: **8/8/2023**	RunNo: **174791**
Client ID: **LCSS**	Batch ID: **101411**	TestNo: **EPA 1311/ 60 EPA 3010A**		Analysis Date: **8/8/2023**	SeqNo: **5343595**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.524	0.050	0.5000	0	105	85	115				
Lead	0.539	0.050	0.5000	0	108	85	115				

Sample ID: **MB-101411**	SampType: **MBLK**	TestCode: **CA_6010_TC**	Units: **mg/L**	Prep Date: **8/8/2023**	RunNo: **174791**
Client ID: **PBS**	Batch ID: **101411**	TestNo: **EPA 1311/ 60 EPA 3010A**		Analysis Date: **8/8/2023**	SeqNo: **5343596**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.050									
Lead	ND	0.050									

Sample ID: **N058297-001B-MS**	SampType: **MS**	TestCode: **CA_6010_TC**	Units: **mg/L**	Prep Date: **8/8/2023**	RunNo: **174791**
Client ID: **ZZZZZZ**	Batch ID: **101411**	TestNo: **EPA 1311/ 60 EPA 3010A**		Analysis Date: **8/8/2023**	SeqNo: **5343601**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	2.967	0.25	5.000	0.1142	57.1	75	125				S

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: American Environmental Testing Laboratory, Inc.
Work Order: N058149
Project: BEG0118.02

ANALYTICAL QC SUMMARY REPORT

TestCode: CA_6010_TC

Sample ID: **N058297-001B-MS**	SampType: **MS**	TestCode: **CA_6010_TC**	Units: **mg/L**	Prep Date: **8/8/2023**	RunNo: **174791**
Client ID: **ZZZZZZ**	Batch ID: **101411**	TestNo: **EPA 1311/ 60 EPA 3010A**		Analysis Date: **8/8/2023**	SeqNo: **5343601**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	4.432	0.25	5.000	1.883	51.0	75	125				S

Sample ID: **N058297-001B-MSD**	SampType: **MSD**	TestCode: **CA_6010_TC**	Units: **mg/L**	Prep Date: **8/8/2023**	RunNo: **174791**
Client ID: **ZZZZZZ**	Batch ID: **101411**	TestNo: **EPA 1311/ 60 EPA 3010A**		Analysis Date: **8/8/2023**	SeqNo: **5343602**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	3.030	0.25	5.000	0.1142	58.3	75	125	2.967	2.10	20	S
Lead	4.494	0.25	5.000	1.883	52.2	75	125	4.432	1.38	20	S

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

D058149

AMERICAN ENVIRONMENTAL TESTING LABORATORY, LLC

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Telephone (888) 288-AETL • (818) 845-8200 • www.aetlab.com

A KYZER LABS COMPANY

SUBCONTRACT CHAIN of CUSTODY

Sending Laboratory:

AETL
AETL, LLC. 2840 N. Naomi Street
Burbank, CA 91504
Phone: 818-845-8200

Project Manager: Hailley Coleman
Email: hcoleman@aetlab.com

Subcontracted Laboratory:

ASSET Laboratories
11110 Artesia Blvd.
Cerritos, CA 90703
Phone: (702)307-2659
Fax: (562)219-7435

Work Order: BEG0118.02 PO #SUB-35728

Analysis	Due	Expires	Comments
~~Sample ID: BEG0118-01~~ *Soil* *Sampled: 07/17/2023 07:20*			6020-As: 1 DAY RUSH
6020-As (Arsenic, total by ICP/MS)	07/20/2023	01/13/2024 07:20	STLC/TCLP: 3 DAY RUSH
Containers Supplied:			
~~Sample ID: BEG0118-02~~ *Soil* *Sampled: 07/17/2023 07:46*			
TCLP-6010B-As (TCLP Arsenic by ICP)	07/20/2023	07/27/2023 07:46	
STLC-Extraction (STLC-Extraction)	07/20/2023	07/31/2023 07:46	
TCLP-Extraction (TCLP Extraction)	07/20/2023	10/25/2023 07:46	
6020-As (Arsenic, total by ICP/MS)	07/20/2023	01/13/2024 07:46	
STLC-6010B-As (STLC Arsenic by ICP)	07/20/2023	01/13/2024 07:46	
Containers Supplied:			
~~Sample ID: BEG0118-03~~ *Soil* *Sampled: 07/17/2023 07:47*			
6020-As (Arsenic, total by ICP/MS)	07/20/2023	01/13/2024 07:47	
Containers Supplied:			
~~Sample ID: BEG0118-05~~ *Soil* *Sampled: 07/17/2023 08:14*			
STLC-Extraction (STLC-Extraction)	07/20/2023	07/31/2023 08:14	
6020-As (Arsenic, total by ICP/MS)	07/20/2023	01/13/2024 08:14	
STLC-6010B-As (STLC Arsenic by ICP)	07/20/2023	01/13/2024 08:14	

Approved by: HAILLEY COLEMAN 7/23/23
AETL Project Manager Date

Released By AETL Sample Control Date Received By Courier Date

Hrag B. 7/31/23 KIM VAN ANTONIO 7/31/23
Released By Courier Date Received By Subcontract Laboratory Date

4:20pm 9:20PM

Maribel Maribel Ramos 7/31/23 1700 1.6°C IR#1
LV 3.1°C IR#3 6LS 2698 8/1/23 9:38am

58149

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SUBCONTRACT CHAIN of CUSTODY
(Continued)

Work Order: BEG0118 (Continued)

Analysis	Due	Expires	Comments
Containers Supplied:			
~~**Sample ID: BEG0118-13**~~ ***Soil*** ***Sampled: 07/17/2023 08:46***			
6020-As (Arsenic, total by ICP/MS)	07/20/2023	01/13/2024 08:46	
Containers Supplied:			
Sample ID: BEG0118-15 ***Soil*** ***Sampled: 07/17/2023 09:00***			
~~6020-As (Arsenic, total by ICP/MS)~~	07/20/2023	01/13/2024 09:00	
STLC-Extraction (STLC-Extraction)	07/24/2023	07/31/2023 09:00	N058149-001
STLC-6010B-As (STLC Arsenic by ICP)	07/24/2023	01/13/2024 09:00	
Containers Supplied:			
Sample ID: BEG0118-16 ***Soil*** ***Sampled: 07/17/2023 09:02***			
6020-As (Arsenic, total by ICP/MS)	07/24/2023	01/13/2024 09:02	-002
Containers Supplied:			
~~**Sample ID: BEG0118-18**~~ ***Soil*** ***Sampled: 07/17/2023 09:28***			
6020-As (Arsenic, total by ICP/MS)	07/20/2023	01/13/2024 09:28	
Containers Supplied:			
~~**Sample ID: BEG0118-21**~~ ***Soil*** ***Sampled: 07/17/2023 09:46***			
6020-As (Arsenic, total by ICP/MS)	07/20/2023	01/13/2024 09:46	
Containers Supplied:			
~~**Sample ID: BEG0118-24**~~ ***Soil*** ***Sampled: 07/17/2023 09:55***			
6020-As (Arsenic, total by ICP/MS)	07/20/2023	01/13/2024 09:55	

Approved by:
AETL Project Manager — Date

Released By AETL Sample Control	Date	Received By Courier	Date
Hrag B.	7/31/23	KIM SANANTONIO	7/31/23
Released By Courier	**Date** 4:20pm	**Received By Subcontract Laboratory**	**Date** 4:20 pm
Maribel Ramos	7/31/23 1700		8/1/23 9:30 am

LV 3.10C IR#3 415 268/1.6°C IR#1

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SUBCONTRACT CHAIN of CUSTODY
(Continued)

Work Order: BEG0118 (Continued)

Analysis	Due	Expires	Comments
Containers Supplied:			
~~Sample ID: BEG0118-34~~ ***Soil Sampled: 07/17/2023 10:46***			
6020-As (Arsenic, total by ICP/MS)	07/20/2023	01/13/2024 10:46	
Containers Supplied:			
~~Sample ID: BEG0118-35~~ ***Soil Sampled: 07/17/2023 10:48***			
6020-As (Arsenic, total by ICP/MS)	07/20/2023	01/13/2024 10:48	
Containers Supplied:			
~~Sample ID: BEG0118-37~~ ***Soil Sampled: 07/17/2023 10:54***			
6020-As (Arsenic, total by ICP/MS)	07/20/2023	01/13/2024 10:54	
Containers Supplied:			
~~Sample ID: BEG0118-38~~ ***Soil Sampled: 07/17/2023 10:56***			
6020-As (Arsenic, total by ICP/MS)	07/20/2023	01/13/2024 10:56	
Containers Supplied:			
Sample ID: BEG0118-40 ***Soil Sampled: 07/17/2023 11:03***			
STLC-Extraction (STLC-Extraction)	07/24/2023	07/31/2023 11:03	
STLC-6010B-Pb (STLC Lead by ICP)	07/24/2023	10/25/2023 11:03	
TCLP-Extraction (TCLP Extraction)	07/24/2023	10/25/2023 11:03	N058149-003
TCLP-6010B-Pb (TCLP Lead by ICP)	07/24/2023	01/13/2024 11:03	
Containers Supplied:			
~~Sample ID: BEG0118-43~~ ***Soil Sampled: 07/17/2023 11:11***			

Approved by:

AETL Project Manager _____ Date _____

Released By AETL Sample Control _____ Date _____ Received By Courier _____ Date _____

Hrag B 7/31/23 4:20pm KIM SAN ANTONIO 7/31/23

Released By Courier Date Received By Subcontract Laboratory Date

Maribel Maribel Ramos 7/31/23 1700 Manuel A Campos Cruz 420 PM 8/1/23 9:38 am

LV 3.1°C IR#3 6L5 2698 / 1.6°C IR#1

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SUBCONTRACT CHAIN of CUSTODY
(Continued)

Work Order: BEG0118 (Continued)

Analysis	Due	Expires	Comments
~~Sample ID: BEG0118-43~~ *Soil* *Sampled: 07/17/2023 11:11*			
STLC-Extraction (STLC-Extraction)	07/20/2023	07/31/2023 11:11	
STLC-6010B-Pb (STLC Lead by ICP)	07/20/2023	10/25/2023 11:11	
TCLP-Extraction (TCLP Extraction)	07/20/2023	10/25/2023 11:11	
TCLP-6010B-Pb (TCLP Lead by ICP)	07/20/2023	01/13/2024 11:11	
Containers Supplied:			
~~Sample ID: BEG0118-44~~ *Soil* *Sampled: 07/17/2023 11:13*			
STLC-Extraction (STLC-Extraction)	07/20/2023	07/31/2023 11:13	
STLC-6010B-Pb (STLC Lead by ICP)	07/20/2023	10/25/2023 11:13	
Containers Supplied:			
~~Sample ID: BEG0118-47~~ *Soil* *Sampled: 07/17/2023 11:45*			
TCLP-6010B-As (TCLP Arsenic by ICP)	07/20/2023	07/27/2023 11:45	
STLC-Extraction (STLC-Extraction)	07/20/2023	07/31/2023 11:45	
TCLP-Extraction (TCLP Extraction)	07/20/2023	10/25/2023 11:45	
6020-As (Arsenic, total by ICP/MS)	07/20/2023	01/13/2024 11:45	
STLC-6010B-As (STLC Arsenic by ICP)	07/20/2023	01/13/2024 11:45	
Containers Supplied:			
Sample ID: BEG0118-48 *Soil* *Sampled: 07/17/2023 11:46*			
~~6020-As (Arsenic, total by ICP/MS)~~	07/20/2023	01/13/2024 11:46	
TCLP-6010B-As (TCLP Arsenic by ICP)	07/24/2023	07/27/2023 11:46	N058149-004
STLC-Extraction (STLC-Extraction)	07/24/2023	07/31/2023 11:46	
TCLP-Extraction (TCLP Extraction)	07/24/2023	10/25/2023 11:46	
STLC-6010B-As (STLC Arsenic by ICP)	07/24/2023	01/13/2024 11:46	
Containers Supplied:			
Sample ID: BEG0118-49 *Soil* *Sampled: 07/17/2023 11:47*			

Approved by:

AETL Project Manager _____ Date _____

Released By AETL Sample Control _____ Date _____ Received By Courier _____ Date _____

Hrag B. 7/31/23 Kim SAN ANTONIO 7/31/23

Released By Courier _____ Date _____ Received By Subcontract Laboratory _____ Date _____

Maribel Maribel Ramos 4:20pm 1 70C Maria de la Cruz 8/1/23 4:20pm 9:38 am

LV 3.1°C IR#3 6152698 1.6°C IR#1

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SUBCONTRACT CHAIN of CUSTODY
(Continued)

Work Order: BEG0118 (Continued)

Analysis	Due	Expires	Comments
Sample ID: BEG0118-49 ***Soil*** ***Sampled: 07/17/2023 11:47***			
6020-As (Arsenic, total by ICP/MS)	07/24/2023	01/13/2024 11:47	N058149-005
Containers Supplied:			
~~**Sample ID: BEG0118-50**~~ ***Soil*** ***Sampled: 07/17/2023 12:01***			
6020-As (Arsenic, total by ICP/MS)	07/20/2023	01/13/2024 12:01	
Containers Supplied:			
~~**Sample ID: BEG0118-51**~~ ***Soil*** ***Sampled: 07/17/2023 12:02***			
6020-As (Arsenic, total by ICP/MS)	07/20/2023	01/13/2024 12:02	
Containers Supplied:			
~~**Sample ID: BEG0118-53**~~ ***Soil*** ***Sampled: 07/17/2023 12:11***			
6020-As (Arsenic, total by ICP/MS)	07/20/2023	01/13/2024 12:11	
Containers Supplied:			
~~**Sample ID: BEG0118-54**~~ ***Soil*** ***Sampled: 07/17/2023 12:11***			
6020-As (Arsenic, total by ICP/MS)	07/20/2023	01/13/2024 12:11	
Containers Supplied:			
~~**Sample ID: BEG0118-55**~~ ***Soil*** ***Sampled: 07/17/2023 12:12***			
6020-As (Arsenic, total by ICP/MS)	07/20/2023	01/13/2024 12:12	
Containers Supplied:			
~~**Sample ID: BEG0118-60**~~ ***Soil*** ***Sampled: 07/17/2023 12:50***			

Approved by: _____ _____
AETL Project Manager — Date

Released By AETL Sample Control	Date	Received By Courier	Date
Hrag B.	7/31/23	KIM VANTANTONO	7/31/23
Released By Courier	Date	Received By Subcontract Laboratory	Date
Maribel Ramos 7/31/23	4:30pm	Mau. de la Cruz LV 3.1°C 1 of 3 LS 2C 95 1.6°C	8/1/23 9:38 am

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SUBCONTRACT CHAIN of CUSTODY
(Continued)

Work Order: BEG0118 (Continued)

Analysis	Due	Expires	Comments
~~Sample ID: BEG0118-60~~ *Soil* *Sampled: 07/17/2023 12:50*			
6020-As (Arsenic, total by ICP/MS)	07/20/2023	01/13/2024 12:50	
Containers Supplied:			
Sample ID: BEG0118-61 *Soil* *Sampled: 07/17/2023 12:51*			
~~6020-As (Arsenic, total by ICP/MS)~~	07/20/2023	01/13/2024 12:51	
STLC-Extraction (STLC-Extraction)	07/24/2023	07/31/2023 12:51	
STLC-6010B-As (STLC Arsenic by ICP)	07/24/2023	01/13/2024 12:51	
Containers Supplied:			N058149-006
Sample ID: BEG0118-62 *Soil* *Sampled: 07/17/2023 12:52*			
6020-As (Arsenic, total by ICP/MS)	07/24/2023	01/13/2024 12:52	
Containers Supplied:			-007
~~Sample ID: BEG0118-63~~ *Soil* *Sampled: 07/17/2023 13:01*			
6020-As (Arsenic, total by ICP/MS)	07/20/2023	01/13/2024 13:01	
Containers Supplied:			
Sample ID: BEG0118-64 *Soil* *Sampled: 07/17/2023 13:04*			
~~6020-As (Arsenic, total by ICP/MS)~~	07/20/2023	01/13/2024 13:04	
STLC-Extraction (STLC-Extraction)	07/24/2023	07/31/2023 13:04	
STLC-6010B-As (STLC Arsenic by ICP)	07/24/2023	01/13/2024 13:04	-008
Containers Supplied:			
Sample ID: BEG0118-65 *Soil* *Sampled: 07/17/2023 13:06*			
6020-As (Arsenic, total by ICP/MS)	07/24/2023	01/13/2024 13:06	-009

Approved by:

AETL Project Manager _____ Date _____

Released By AETL Sample Control _____ Date _____

Received By Courier _____ Date _____

Hrag B. 7/31/23 4:20pm

Released By Courier _____ Date _____

KIM LANANTONIO 7/31/23

Received By Subcontract Laboratory _____ Date _____

Manuel Manuel R. 7/31/23 1700

Manuel de la Cruz 4:20 pm 8/1/23 9:38

LV 3.1°C IR#3 1.6°C IR#1

GLS 2498

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SUBCONTRACT CHAIN of CUSTODY
(Continued)

Work Order: BEG0118 (Continued)

Analysis	Due	Expires	Comments

Containers Supplied:

Approved by:
AETL Project Manager — Date

Released By AETL Sample Control — Date
Received By Courier — Date

Hrag B. — 7/31/23 4:20pm
Released By Courier — Date
KIM SANANTONIO — 7/31/23
Received By Subcontract Laboratory — Date

Maribel Maribel R. 7/31/23 1700
Maria de la Cruz Ortiz 420 PM 8/1/23 9:38 am
LV3.1C 1e#3 6LS2698 16°C IR#1

ASSET Laboratories

Please review the checklist below. Any NO signifies non-compliance. Any non-compliance will be noted and must be understood as having an impact on the quality of the data. All tests will be performed as requested regardless of any compliance issues.

If you have any questions or further instruction, please contact our Project Coordinator at (702) 307-2659.

Cooler Received/Opened On:	7/31/2023	Workorder:	N058149
Rep sample Temp (Deg C):	1.6	IR Gun ID:	1
Temp Blank:	☐ Yes ☑ No		
Carrier name:	Walk-In		
Last 4 digits of Tracking No.:	NA	Packing Material Used:	None
Cooling process:	☑ Ice ☐ Ice Pack ☐ Dry Ice ☐ Other ☐ None		

Sample Receipt Checklist

1. Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
2. Custody seals intact, signed, dated on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
3. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
4. Chain of custody present?	Yes ☑	No ☐	
5. Sampler's name present in COC?	Yes ☐	No ☑	
6. Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
7. Chain of custody agrees with sample labels?	Yes ☑	No ☐	
8. Samples in proper container/bottle?	Yes ☑	No ☐	
9. Sample containers intact?	Yes ☑	No ☐	
10. Sufficient sample volume for indicated test?	Yes ☑	No ☐	
11. All samples received within holding time?	Yes ☑	No ☐	
12. Temperature of rep sample or Temp Blank within acceptable limit?	Yes ☑	No ☐	NA ☐
13. Water - VOA vials have zero headspace?	Yes ☐	No ☐	NA ☑
14. Water - pH acceptable upon receipt? Example: pH > 12 for (CN,S); pH<2 for Metals	Yes ☐	No ☐	NA ☑
15. Did the bottle labels indicate correct preservatives used?	Yes ☐	No ☐	NA ☑
16. Were there Non-Conformance issues at login?	Yes ☐	No ☐	NA ☑
Was Client notified?	Yes ☐	No ☐	NA ☑

Comments: Received at Las Vegas Lab on 8/1/2023 at 3.1°C, IR#3, via SW#2698.

Checklist Completed By: KS 8/1/2023

Reviewed By: for: MBC

Subject: RE: N058149 (BEG0118.02)
From: Hailley Coleman <hcoleman@aetlab.com>
Date: 8/1/2023, 1:23 PM
To: Kim San Antonio <kim@assetlaboratories.com>
CC: "tmalit@assetlaboratories.com" <tmalit@assetlaboratories.com>, "maribel@assetlaboratories.com" <maribel@assetlaboratories.com>

Please proceed - thank you.

Hailley Coleman
Project Manager

How are we doing? Please click here for a short survey

AETL, LLC.
2840 N. Naomi St., Burbank, CA 91504
NorCal Office
2170 Pixley Street, San Francisco, CA 94123
T 818.845.8200 C 818.399.7095
SBE/VSBE/EBE hcoleman@aetlab.com www.aetlab.com

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-----Original Message-----
From: Kim San Antonio <kim@assetlaboratories.com>
Sent: Tuesday, August 1, 2023 1:02 PM
To: Hailley Coleman <hcoleman@aetlab.com>
Cc: tmalit@assetlaboratories.com; maribel@assetlaboratories.com
Subject: N058149 (BEG0118.02)

Hailey,

TCLP requires minimum of 100g per SOP. However, it can be run as a limited sample. Please let us know if we could proceed.

Thank you,

Kim

--
This email has been checked for viruses by Avast antivirus software.
www.avast.com

ASSET Laboratories

WORK ORDER Summary

01-Aug-23

WorkOrder: N058149

Client ID: AETL01

Project: BEG0118.02 **QC Level:** RTNE **Date Received:** 7/31/2023 4:20 PM

Comments: 6020-As: 1 DAY RUSH

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N058149-001A	BEG0118-15	7/17/2023 9:00:00 AM	8/3/2023	Soil	EPA 3010A	AQPrep for Total Metals	☐	☐	☐	WS-CA
			8/3/2023		WET/ EPA 6010B	ICP METALS by STLC	☐	☐	☐	WS-CA
			8/3/2023		WET	STLC Sample Prep Metals	☐	☐	☐	WS-CA
N058149-002A	BEG0118-16	7/17/2023 9:02:00 AM	8/1/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			8/1/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N058149-003A	BEG0118-40	7/17/2023 11:03:00 AM	8/3/2023		EPA 1311	TCLP Sample Prep Metals	☐	☐	☐	WS-CA
			8/3/2023		EPA 3010A	AQPrep for Total Metals	☐	☐	☐	WS-CA
			8/3/2023		WET/ EPA 6010B	ICP METALS by STLC	☐	☐	☐	WS-CA
			8/3/2023		EPA 1311/ 6010B	ICP METALS by TCLP Extraction	☐	☐	☐	WS-CA
			8/3/2023		WET	STLC Sample Prep Metals	☐	☐	☐	WS-CA
N058149-004A	BEG0118-48	7/17/2023 11:46:00 AM	8/3/2023		EPA 1311	TCLP Sample Prep Metals	☐	☐	☐	WS-CA
			8/3/2023		EPA 3010A	AQPrep for Total Metals	☐	☐	☐	WS-CA
			8/3/2023		WET/ EPA 6010B	ICP METALS by STLC	☐	☐	☐	WS-CA
			8/3/2023		EPA 1311/ 6010B	ICP METALS by TCLP Extraction	☐	☐	☐	WS-CA
			8/3/2023		WET	STLC Sample Prep Metals	☐	☐	☐	WS-CA
N058149-005A	BEG0118-49	7/17/2023 11:47:00 AM	8/1/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			8/1/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N058149-006A	BEG0118-61	7/17/2023 12:51:00 PM	8/3/2023		EPA 3010A	AQPrep for Total Metals	☐	☐	☐	WS-CA
			8/3/2023		WET/ EPA 6010B	ICP METALS by STLC	☐	☐	☐	WS-CA
			8/3/2023		WET	STLC Sample Prep Metals	☐	☐	☐	WS-CA
N058149-007A	BEG0118-62	7/17/2023 12:52:00 PM	8/1/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			8/1/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS

ASSET Laboratories

WORK ORDER Summary

01-Aug-23

WorkOrder: N058149

Client ID: AETL01

Project: BEG0118.02 **QC Level:** RTNE **Date Received:** 7/31/2023 4:20 PM

Comments: 6020-As: 1 DAY RUSH

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N058149-008A	BEG0118-64	7/17/2023 1:04:00 PM	8/3/2023	Soil	EPA 3010A	AQPrep for Total Metals	☐	☐	☐	WS-CA
			8/3/2023		WET/ EPA 6010B	ICP METALS by STLC	☐	☐	☐	WS-CA
			8/3/2023		WET	STLC Sample Prep Metals	☐	☐	☐	WS-CA
N058149-009A	BEG0118-65	7/17/2023 1:06:00 PM	8/1/2023		EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			8/1/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N058149-010A	FOLDER	8/1/2023	8/1/2023		Folder	Folder	☐	☐	☐	LAB
			8/1/2023		Folder	Folder	☐	☐	☐	LAB

GLS.

800-322-5555
www.gls-us.com

Ship From
ASSET LABORATORIES
THAD MALIT
11110 ARTESIA BLVD. SUITE B
CERRITOS, CA 90703

Ship To
ASSET LABORATORIES
SAMPLE CONTROL-LV
3151 W. POST RD.,
LAS VEGAS, NV 89118

COD: $0.00
Weight: 0 lb(s)
Reference:

Delivery Instructions:
HOLD FOR PICKUP
Signature Type: STANDARD

Tracking #: 559862698

PDS

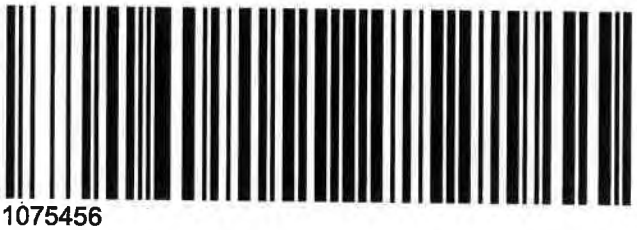


LAS VEGAS

3.1°C

9:38am

D00006O



91075456

LVS NV891-068

Print Date: 7/31/2023 5:05 PM

LABEL INSTRUCTIONS:

Do not copy or reprint this label for additional shipments - each package must have a unique barcode.
Step 1: Use the "Print Label" button on this page to print the shipping label on a laser or inkjet printer.
Step 2: Fold this page in half.
Step 3: Securely attach this label to your package and do not cover the barcode.

TERMS AND CONDITIONS:

By giving us your shipment to deliver, you agree to all of the General Logistics Systems US, Inc. (GLS) service terms & conditions including, but not limited to; limits of liability, declared value conditions, and claim procedures which are available on our website at www.gls-us.com.

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Telephone (888) 288-AETL • (818) 845-8200 • www.aetlab.com
A KYZER LABS COMPANY

August 09, 2023

AETL Job No: BEG0118.03
Received Date: 07/17/2023
Project Number: [none]

Parsons
100 West Walnut Street
Pasadena, CA 91124
Telephone: (626) 440-6200

Attention: Justin King

Project Name: LAUSD Canoga

Site: Canoga Park High School
6850 CA-27
Canoga Park, CA 91303

Enclosed please find the results of analyses for samples which were analyzed as specified on the attached chain of custody. If you have any questions concerning this report, please do not hesitate to call.

Checked By: Hailley Coleman
Hailley Coleman
Project Manager

Approved By: Joe Sevrean
Joe Sevrean
Laboratory Director

Table of Contents

Client Project Name: Canoga Park High School Project Number: [none]
Work Order Number: BEG0118

1 Cover Letter 1
2 Sample Condition on Receipt 3
3 Chain of Custody 4
4 Cooler Receipt Forms 9
5 Case Narrative 10
6 Samples Received 11
7 Positive Hits Summary 12
8 Analytical Results 13
9 Qualifiers and Definitions 14
10 Sub Contracted Analysis 16

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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEG0118 [none] Justin King LAUSD Canoga	Site: Reported:	Canoga Park High School 6850 CA-27 Canoga Park, CA 91303 08/09/2023 09:54

Sample Condition on Receipt

Cooler ID: Default Cooler **Temperature: 5.8 °C**

Are the COCs Correct	Y		
Labels Legible	Y	Containers In Good Condition	Y
COC/Labels Agree	Y	Samples Preserved Properly	Y
Sufficient Sample Volume	Y	Sufficient Holding Time for all Tests	Y
Sample Labels intact	Y	Received on Ice	Y

Cooler ID: New Cooler **Temperature: 5.7 °C**

Are the COCs Correct	Y		
Labels Legible	Y	Containers In Good Condition	Y
COC/Labels Agree	Y	Samples Preserved Properly	Y
Sufficient Sample Volume	Y	Sufficient Holding Time for all Tests	Y
Sample Labels intact	Y	Received on Ice	Y

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

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CHAIN OF CUSTODY RECORD

AETL JOB No. BEG00118

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut Street. Pasadena, CA 91124
PHONE / EMAIL: (310) 809-5793
PROJECT NAME: LAUSD Canoga
PROJECT #:
SITE NAME AND ADDRESS: Canoga Park Highschool 6850 Canoga Park, CA 91303
PO #: 453413

	SAMPLE ID	LAB ID (BEG00118)	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	STLC - Pb	TLCP - Pb	STLC - As	TLCP - As	TEST INSTRUCTIONS & COMMENTS
1	SB-38-SW-35-D0.5	01	7/17/2023	0720	Soil	1x 9oz	none		X					
2	SB-26-SW-10-D0.5	02	7-17-2023	0746	Soil	1x 9oz	none		X			X	X	~~Hold~~ EP.
3	SB-26-SW-10-D2.0	03	7-17-2023	0747	Soil	1x 9oz	none		X					Hold
4	SB-26-SW-10-D3.0	04	7-17-2023	0744	Soil	1x 9oz	none		X	EP.				Hold
5	SB-26-SW15-D0.5	05	7-17-2023	0814	Soil	1x 9oz	none		X			X		~~Hold~~ EP.
6	SB-26-SW15-D2.0	06	7-17-2023	0815	Soil	1x 9oz	none		X					Hold
7	SB-26-SW15-D3.0	07	7-17-2023	0816	Soil	1x 9oz	none							Hold
8	SB-26-E15-D0.5 Dup	08	7-17-2023	0823	Soil	~~1x 9oz~~ 1x 9oz	none		X			X		
9	SB-26-E15-D2.0	09	7-17-2023	0827	Soil	1x 9oz	none		X					Hold
10	SB-26-E15-D3.0	10	7-17-2023	0829	Soil	1x 9oz	none							Hold
11	SB-26-E15-D0.5 ~~Dup~~	11	7-17-2023	0823	Soil	1x 9oz	none		X			X		
12	SB-26-E10 D0.5	12	7-17-2023	0842	Soil	1x 9oz	none		X			X	X	
13	SB-26-E10 D2.0	13	7-17-2023	0846	Soil	1x 9oz	none		X					Hold
14	SB-26-E10 D3.0	14	7-17-2023	0849	Soil	1x 9oz	none							Hold
15	EP													

TOTAL NUMBER OF CONTAINERS: 14

BILLING INFORMATION / SPECIAL INSTRUCTIONS

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:	Signature:	Signature:
Printed Name: Edward Dabsys	Printed Name:	Printed Name:
Date: 7/17/2023 Time: 1550	Date: Time:	Date: Time:
RECEIVED BY: 1.	**RECEIVED BY:** 2.	**RECEIVED BY LABORATORY:** 3.
Signature:	Signature:	Signature: AETL
Printed Name:	Printed Name:	Printed Name:
Date: Time:	Date: Time:	Date: 7/17/23 Time: 15:50

TURN AROUND TIME
- ☐ NORMAL
- ☐ SAME DAY RUSH
- ☐ NEXT DAY RUSH
- ☐ 2 DAYS RUSH
- ☑ 3 DAYS RUSH
- ☐ 4 DAYS RUSH

DATA DELIVERABLE REQUIRED
- ☐ HARD COPY
- ☐ E-COPY
- ☐ GEOTRACKER (GLOBAL ID) _____
- ☐ OTHER (PLEASE SPECIFY) _____

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CHAIN OF CUSTODY RECORD

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut Street Pasadena, CA 91124
PHONE / EMAIL: (310) 809-5793
PROJECT NAME: LAUSD Canoga
PROJECT #:
SITE NAME AND ADDRESS: Canoga Park High school 6850 Canoga Park, CA 91303
PO #: CA27 453413
AETL JOB No.: BE-20118
Page 2 of 5

	SAMPLE ID	LAB ID (BE-20118)	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1	SB-26-E25-D0.5	15	7-17-2023	0900	Soil	1x4oz	none
2	SB-26-E25-D2.0	16	7-17-2023	0902	Soil	1x4oz	"
3	SB-26-E25-D3.0	17	7-17-2023	0904	Soil	1x4oz	"
4	SB-7-SW-25-D0.5	18		928			
5	SB-7-SW-25-D2.0	19		0931			
6	SB-7-SW-25-D3.0	20		0933			
7	SB-7-SW20-D0.5	21		0946			
8	SB-7-SW20-D2.0	22		0948			
9	SB-7-SW20-D3.0	23		0951			
10	SB-7-S20-D0.5	24		0955			
11	SB-7-S20-D2.0	25		0957			
12	SB-7-S20-D3.0	26		1000			
13	SB-5-W15-D0.5	27		1005			
14	SB-5-W15-D2.0	28		1007			
15	SB-5-W15-D3.0	29		1010			

ANALYSIS REQUESTED

Lead (6010B)	Arsenic (6020)	STLC-Pb	TCLP-Pb	STLC-As	TCLP-As					TEST INSTRUCTIONS & COMMENTS
	X			X						Hold
	X									Hold
	X									Hold
	X									
										1-Hold
										1-Hold
	X									
										Hold
										Hold
	X									
										Hold
										Hold
	X									
	X									Hold
										Hold

TOTAL NUMBER OF CONTAINERS: 15

BILLING INFORMATION / SPECIAL INSTRUCTIONS

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: E. Salazar	Signature:	Signature:
Printed Name: Edward Dabsys	Printed Name:	Printed Name:
Date: 7/17/2023 Time: 1540	Date: Time:	Date: Time:
RECEIVED BY: 1.	**RECEIVED BY:** 2.	**RECEIVED BY LABORATORY:** 3.
Signature:	Signature:	Signature:
Printed Name:	Printed Name:	Printed Name:
Date: Time:	Date: Time:	Date: 7/17/23 Time: 15:50

TURN AROUND TIME
☐ NORMAL ☐ SAME DAY RUSH ☐ NEXT DAY RUSH
☐ 2 DAYS RUSH ☑ 3 DAYS RUSH ☐ 4 DAYS RUSH

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CHAIN OF CUSTODY RECORD

AETL JOB No. BEG0118

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut Street Pasadena, CA 91124
PHONE EMAIL: (310) 809-5793
PROJECT NAME: LAUSD Canoga
PROJECT #:
SITE NAME AND ADDRESS: Canoga Park Highschool 6850 CA-27 Canoga Park, CA 91303
PO #: 453413

ANALYSIS REQUESTED

	SAMPLE ID	LAB ID BEG0118	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	STLC-Pb	TCLP-Pb	STLC-As	TCLP-As					TEST INSTRUCTIONS & COMMENTS
1	SB-5-E20-D0.5	30	7/17/2023	1015	Soil	1x 9oz	none		X			X	X					
2	SB-5-E20-D2.0	31		1020					X									Hold
3	SB-5-E20-D3.0	32		1022														Hold
4	SB-5-E20-D0.5DUP	33		1017					X			X	X					
5	SB-1-W10-D0.5	34		1046					X									
6	SB-1-W10-D2.0	35		1048					X									Hold
7	SB-1-W10-D3.0	36		1051														Hold
8	SB-1-SW20-D0.5	37		1054					X									
9	SB-1-SW20-D2.0	38		1056					X									Hold
10	SB-1-SW20-D3.0	39		1059														Hold
11	SB-3-S15-D0.5	40		1103				X		X	X							Hold
12	SB-3-S15-D2.0	41		1105				X										Hold
13	SB-3-S15-D3.0	42		1108														Hold
14	SB-3-S10-D0.5	43		1111				X		X	X							
15	SB-3-S10-D0.5DUP	44		1113				X		X								

TOTAL NUMBER OF CONTAINERS: 15

BILLING INFORMATION / SPECIAL INSTRUCTIONS

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: E. Galsup	Signature:	Signature:
Printed Name: Edward Dabsys	Printed Name:	Printed Name:
Date: 7/17/2023 Time: 1550	Date: Time:	Date: Time:

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: AETL 3.
Signature:	Signature:	Signature:
Printed Name:	Printed Name:	Printed Name: Cereta Caregosin
Date: Time:	Date: Time:	Date: 07/17/23 Time: 15:50

TURN AROUND TIME
- [ ] NORMAL
- [ ] SAME DAY RUSH
- [ ] NEXT DAY RUSH
- [ ] 2 DAYS RUSH
- [x] 3 DAYS RUSH
- [ ] 4 DAYS RUSH

DATA DELIVERABLE REQUIRED
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CHAIN OF CUSTODY RECORD

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut Street Pasadena, CA 91124
PHONE / EMAIL: (310) 809-5793
PROJECT NAME: LAUSD Canoga
PROJECT #:
SITE NAME AND ADDRESS: Canoga Park Highschool, 6850 CA-27 Canoga Park, CA 91303
PO #: 453413
AETL JOB No.: BE-Q0118
Page 4 of 5

	SAMPLE ID	LAB ID (BE-Q0118)	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	STLC-Pb	TLCP-Pb	STLC-As	TLCP-As	TEST INSTRUCTIONS & COMMENTS
1	SB-3-S10-D2.0	45	7/17/2023	1115	Soil	1x9oz	none	X						Hold
2	SB-3-S10-D3.0	46		1117										Hold
3	SB-51-SW10-D0.5	47		1145					X			X	X	
4	SB-51-SW10-D2.0	48		1146					X			X	X	Hold
5	SB-51-SW10-D3.0	49		1147					X			X	X	Hold
6	SB-51-S10-D0.5	50		1201					X					
7	SB-51-S10-D2.0	51		1202					X					Hold
8	SB-51-S10-D3.0	52		1203										Hold
9	SB-51-SE10-D0.5	53		1211					X					
10	SB-51-SE10-D0.5 DUP	54		1211					X					
11	SB-51-SE10-D2.0	55		1212					X					Hold
12	SB-51-SE10-D3.0	56		1213										Hold
13	SB-51-SW10-D0.5	57		1223					X	E.D.				Hold
14	SB-51-SW10-D2.0	58		1226										Hold
15	SB-51-SW10-D3.0	59	↓	1230	↓	↓	↓							Hold

TOTAL NUMBER OF CONTAINERS: 15

BILLING INFORMATION / SPECIAL INSTRUCTIONS

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: E Salazar	Signature:	Signature:
Printed Name: Edward Salazar	Printed Name:	Printed Name:
Date: 7/17/2023 Time: 1550	Date: Time:	Date: Time:
RECEIVED BY: 1.	**RECEIVED BY:** 2.	**RECEIVED BY LABORATORY:** 3.
Signature:	Signature:	Signature:
Printed Name:	Printed Name:	Printed Name:
Date: Time:	Date: Time:	Date: 7/17/23 Time: 18:50

TURN AROUND TIME
☐ NORMAL ☐ SAME DAY RUSH ☐ NEXT DAY RUSH
☐ 2 DAYS RUSH ☑ 3 DAYS RUSH ☐ 4 DAYS RUSH

DATA DELIVERABLE REQUIRED
☐ HARD COPY
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☐ GEOTRACKER (GLOBAL ID) _____
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CHAIN OF CUSTODY RECORD

AETL JOB No. BEC0118

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut street Pasadena, CA 91124
PHONE EMAIL: (310) 809-5793
PROJECT NAME: LAUSD Canoga
PROJECT #: 453413
SITE NAME AND ADDRESS: Canoga Park Highschool 6850 CA-27 Canoga Park, CA 91303
PO #:

ANALYSIS REQUESTED

	SAMPLE ID	LAB ID BEC0118	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	STLC-Pb	TCLP-Pb	STLC-As	TCLP-As					TEST INSTRUCTIONS & COMMENTS
1	SB-44-S20-D0.5	60	7/17/2023	1250	soil	1X 9oz	none		X									
2	SB-44-S20-D2.0	61		1251					X			X						Hold
3	SB-44-S20-D3.0	62		1252					X									Hold
4	SB-44-N20-D0.5	63		1301					X			X						
5	SB-44-N20-D2.0	64		1304					X			X						Hold
6	SB-44-N20-D3.0	65		1306					X									Hold
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		

TOTAL NUMBER OF CONTAINERS: 6

BILLING INFORMATION / SPECIAL INSTRUCTIONS

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: E. Sabey	Signature:	Signature:
Printed Name: Edward Dobys	Printed Name:	Printed Name:
Date: 7/17/2023 Time: 1550	Date: Time:	Date: Time:

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: 3.
Signature:	Signature:	Signature: AETL
Printed Name:	Printed Name:	Printed Name: [illegible]
Date: Time:	Date: Time:	Date: 7/17/23 Time: 15:50

TURN AROUND TIME
- [ ] NORMAL
- [ ] SAME DAY RUSH
- [ ] NEXT DAY RUSH
- [ ] 2 DAYS RUSH
- [x] 3 DAYS RUSH
- [ ] 4 DAYS RUSH

DATA DELIVERABLE REQUIRED
- [ ] HARD COPY
- [ ] E-COPY
- [ ] GEOTRACKER (GLOBAL ID) _____
- [ ] OTHER (PLEASE SPECIFY) _____

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

AMERICAN ENVIRONMENTAL TESTING LABORATORY
2840 North Naomi Street Burbank, CA 91504 • ELAP# 1541 & 2402 • LACSD# 10181
TEL (888) 288-AETL • (818) 845-8200 • www.aetlab.com
A KYZER LABS COMPANY

COOLER RECEIPT FORM

Client Name: Parsons

Project Name: LAUSD Canoga Project No.:

AETL Job Number: BEG0118

Date Received: 07/17/2023 Received by: Greta G

Carrier: ☐ AETL Courier ☑ Client ☐ GSL ☐ FedEx ☐ UPS
☐Others:

Samples were received in: ☑ Cooler (__2_____) ☐ Other (Specify):

Sample Container Temperature: __5.8__ °C IR Gun S/N: 51941911MV

Type of sample containers: ☐ VOA, ☐ Glass bottles, ☑Wide mouth jars, ☐HDPE bottles, ☐ Metal sleeves, ☐ Acetate sleeves, ☐ 5035 Kit: ☐ AETL or ☐ Client, ☐ Tedlar Bags, Summa Canister: ☐ 6L, ☐ 3L, ☐ 1L, Others (Specify): _____

How are samples preserved: ☐ None, ☑ Ice, ☐ Blue Ice, ☐ Dry Ice
☑ None, ☐ HNO_3, ☐ NaOH, ☐ ZnOAc, ☐ HCl, ☐ $Na_2S_2O_3$, ☐ MeOH, ☐ $NaHSO_4$
☐ Other (Specify):

	Yes	No	N/A	Note or Comment
1. Are the COCs Correct?	✔			
2. Are Sample labels legible & indelible ink?	✔			
3. Do samples match the COC?	✔			
4. Are the required analyses clear?	✔			
5. Is there enough samples for required analysis?	✔			
6. Does cooler or samples have custody seal(s)?			✔	
7. Are sample containers in good condition?	✔			
8. Are samples preserved?	✔			
9. Are samples preserved properly for the intended analysis?	✔			
10. Are the VOAs free of headspace? See footnote.			✔	
11. Are the jars free of headspace?			✔	

* = see note below. N/A = Not Applicable

PLEASE NOTE ALL SAMPLES WILL BE DISPOSED OF 30 DAYS AFTER RECEIVING DATE. IF AETL IS INFORMED OTHERWISE, THERE WILL BE A STORAGE CHARGE PER SAMPLE PER MONTH FOR ANY SAMPLE HELD BEYOND 30 DAYS.

◯ Example maximum headspace bubble size; acceptance criteria not to exceed 5-6 mm in diameter.

For headspace bubbles exceeding 6 mm in diameter, sample receiving will tag the VOA and notify the Project Manager. The Project Manager will contact client for Analyze or Resample instructions.

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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEG0118 [none] Justin King LAUSD Canoga	Site: Reported:	Canoga Park High School 6850 CA-27 Canoga Park, CA 91303 08/09/2023 09:54

Case Narrative

The following "Sample Received" Section summarizes the samples received and associated analyses requested as specified on the enclosed chain of custody.

Results as reported by the laboratory apply only to 1) the items tested, 2) as the samples are received, and 3) the accuracy of information provided. Information supplied by the customer that may affect validity of results and may be contained in this report include Project Name/Number, Site Location, Sample Locations, Sampling Dates/Times, Sample ID, Sample Preservation, Sample Matrix, Sample Properties, Field Blanks, Field Duplicates, Field Spikes, and Site Historical Data.

Accreditation applies only to the test methods listed on each scope of accreditation held by the laboratory; certifications held by the laboratory may not apply to results supplied in this report.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

Qualifiers are noted in the report.

The samples were subcontracted to Asset Laboratories for EPA 6020, STLC, and TCLP. Please see attached report for results.

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

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Parsons	AETL Job Number:	BEG0118	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LAUSD Canoga	Reported:	08/09/2023 09:54	

Samples Received

AETL received the following samples on 07/17/2023 with the following specifications

Client ID: SB-26-E25-D3.0 **Sample Date:** 07/17/2023 9:04

Lab ID: BEG0118-17 **Matrix:** Soil **Quantity of Containers:** 2

Method	Analyte	Units	TAT
EPA 6020	Arsenic, total by ICP/MS	mg/kg	5

Client ID: SB-51-SW10-D3.0 **Sample Date:** 07/17/2023 11:47

Lab ID: BEG0118-49 **Matrix:** Soil **Quantity of Containers:** 2

Method	Analyte	Units	TAT
EPA 6010B-1311 TCLP	TCLP Arsenic by ICP	mg/L	5
EPA 6010B-STLC	STLC Arsenic by ICP	mg/L	5

Total Number of Samples received: 2

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEG0118 [none] Justin King LAUSD Canoga	Site: Reported:	Canoga Park High School 6850 CA-27 Canoga Park, CA 91303 08/09/2023 09:54

Positive Hits Summary

Lab ID	Client ID					Sampled
Method	Analyte	Result	Qualifier	Unit		Analyzed

See Subcontract Report

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEG0118 [none] Justin King LAUSD Canoga	Site: Reported:	Canoga Park High School 6850 CA-27 Canoga Park, CA 91303 08/09/2023 09:54

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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Parsons	AETL Job Number:	BEG0118	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LAUSD Canoga	Reported:	08/09/2023 09:54	

Qualifiers and Definitions

Item	Definitions
% wt	Percent Weight
%REC	Percent Recovery
°F	Degrees Fahrenheit
AETL	American Environmental Testing Laboratory, LLC
C	Carbon
CARB	California Air Resources Board
COC	Chain of Custody
Cresols	3-methylphenol/4-methylphenol coelute and cannot be chromatographically separated. Due to this coeluting isomer pair phenomenon, the laboratory uses a single cresol (4-methylphenol) as calibration standard for 3-methylphenol/4-methylphenol.
CRM	Certified Reference Material
DI	Deionized Water
DPD	Department of Planning and Development
DRO	Diesel Range Organics
Dup	Duplicate
ELAP	Environmental Laboratory Accreditation Program
EPA	Environmental Protection Agency
GC/FID	Gas Chromatography Flame Ionization Detection
GRO	Gasoline Range Organics
HC	Hydrocarbon
HEM	Hexane Extractable Material
HMU	Hazardous Material Unit
ICP/MS	Inductively Coupled Plasma Mass Spectrometry
LACSD	Los Angeles County Sanitation Districts
LCS	Laboratory Control Sample - A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes.
LCSD	Laboratory Control Sample Duplicate - A replicate of Laboratory Control Sample.
LOQ	Limit of Quantitation
MDL	Method Detection Limit - The minimum measured concentration of a substance that can be reported with 99% confidence. MDL is statistically derived number which is specific for each instrument, each method and each compound.
mg/kg	Miligrams per Kilogram
mg/L	Miligrams per Liter
ml/L/hr	Milliliter per Liter per Hour
MRO	Motor oil Range Organics
MS	Matrix Spike - A sample prepared, taken through all sample preparation and analytical steps of the procedure and analyzed as an independent test results.
MSD	Matrix Spike Duplicate - A replicate of Matrix Spike Sample.
N	No
ND	Analyte is not detected below Method Detection Limit.

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEG0118 [none] Justin King LAUSD Canoga	Site: Reported:	Canoga Park High School 6850 CA-27 Canoga Park, CA 91303 08/09/2023 09:54

ng/m3	Nanograms per cubic meter
NIOSH	National Institute for Occupational Safety and Health
nL/L	Nanoliters per Liter
NTU	Nephelometric Turbidity Units
Ohm-cm	Ohms per centimeter
ORO	Oil Range Organics
OSHA	Occupational Safety and Health Administration
PCB	Polychlorinated Biphenyl
ppb v	Parts per billion by volume
ppmC	Parts per million Carbon
PSU	Practical Salinity Unit
RL	Reporting Limit - The lowest concentration at which an analyte can be detected in a sample and its concentration can be reported with a specified degree of confidence, accuracy and precision. For usage at AETL, RL is equivalant to LOQ.
RPD	Relative Percent Difference
SIM	Selective Ion Monitoring
SM	Standard Method
SPLP	Synthetic Precipitation Leaching Procedure
STLC	Soluble Threshold Limit Concentration
TCLP	Toxicity Characteristic Leaching Procedure
TPH	Total Petroleum Hydrocarbons
TTLC	Total Threshold Limit Concentrations
ug/kg	Micrograms per Kilogram
ug/L	Micrograms per Liter
ug/m3	Micrograms per cubic meter
WET	Waste Extraction Test
Y	Yes
ZHE	Zero Headspace Extraction

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

August 09, 2023

Hailley Coleman
American Environmental Testing Laboratory, Inc.
2834 N. Naomi Street
Burbank, CA 91504

TEL: (818) 845-8200
FAX:

Workorder No.: N058271

RE: BEG0118.03

Attention: Hailley Coleman

Enclosed are the results for sample(s) received on August 03, 2023 by ASSET Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562) 219-7435 if I can be of further assistance to your company.

Sincerely,

for

Ferdinand Paul Lugtu
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and ASSET Laboratories - California.

CLIENT: American Environmental Testing Laborator
Project: BEG0118.03
Lab Order: N058271

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

All sample containers were received intact with proper chain of custody documentation.

Information on sample receipt conditions including discrepancies can be found in attached Sample Receipt Checklist Form.

Cooler temperature and sample preservation were verified upon receipt of samples if applicable.

Samples were analyzed within method holding time.

Analytical comments for EPA 6020:

.Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria possibly due to matrix interference. The associated Laboratory Control Sample (LCS) recovery was acceptable.

CLIENT: American Environmental Testing Laborator
Project: BEG0118.03
Lab Order: N058271
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N058271-001A	BEG0118-17	Soil	7/17/2023 9:04:00 AM	8/3/2023	8/9/2023
N058271-002A	BEG0118-49	Soil	7/17/2023 11:47:00 AM	8/3/2023	8/9/2023

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEG0118-17
Lab Order:	N058271		
Project:	BEG0118.03	**Collection Date:**	7/17/2023 9:04:00 AM
Lab ID:	N058271-001	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS						
	EPA 3050B			**EPA 6020**		
RunID: NV00922-ICP8_230804A	QC Batch: 101307			PrepDate:	8/4/2023	Analyst: **DJ**
Arsenic	4.8	0.50		mg/Kg	1	8/4/2023 06:25 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEG0118-49
Lab Order:	N058271		
Project:	BEG0118.03	**Collection Date:**	7/17/2023 11:47:00 AM
Lab ID:	N058271-002	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS BY STLC						
EPA 3010A				**WET/ EPA 6010B**		
RunID: CA01638-ICP01_230807C QC Batch: 101348				PrepDate:	8/7/2023	Analyst: **PL**
Arsenic	9.3	0.25		mg/L	5	8/7/2023 03:53 PM
ICP METALS BY TCLP EXTRACTION						
EPA 3010A				**EPA 1311/ 6010B**		
RunID: CA01638-ICP01_230807F QC Batch: 101356				PrepDate:	8/6/2023	Analyst: **PL**
Arsenic	1.9	0.050		mg/L	1	8/7/2023 04:17 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: American Environmental Testing Laboratory, Inc.
Work Order: N058271
Project: BEG0118.03

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_S_PPM

Sample ID: **MB-101307**	SampType: **MBLK**	TestCode: **6020_S_PPM**	Units: **mg/Kg**	Prep Date: **8/4/2023**	RunNo: **174635**
Client ID: **PBS**	Batch ID: **101307**	TestNo: **EPA 6020**	**EPA 3050B**	Analysis Date: **8/4/2023**	SeqNo: **5331446**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.50									

Sample ID: **LCS-101307**	SampType: **LCS**	TestCode: **6020_S_PPM**	Units: **mg/Kg**	Prep Date: **8/4/2023**	RunNo: **174635**
Client ID: **LCSS**	Batch ID: **101307**	TestNo: **EPA 6020**	**EPA 3050B**	Analysis Date: **8/4/2023**	SeqNo: **5331447**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	4.959	0.50	5.000	0	99.2	85	115				

Sample ID: **N058271-001A-MS**	SampType: **MS**	TestCode: **6020_S_PPM**	Units: **mg/Kg**	Prep Date: **8/4/2023**	RunNo: **174635**
Client ID: **ZZZZZZ**	Batch ID: **101307**	TestNo: **EPA 6020**	**EPA 3050B**	Analysis Date: **8/4/2023**	SeqNo: **5331451**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	12.006	0.50	4.998	4.820	144	75	125				S

Sample ID: **N058271-001A-MSD**	SampType: **MSD**	TestCode: **6020_S_PPM**	Units: **mg/Kg**	Prep Date: **8/4/2023**	RunNo: **174635**
Client ID: **ZZZZZZ**	Batch ID: **101307**	TestNo: **EPA 6020**	**EPA 3050B**	Analysis Date: **8/4/2023**	SeqNo: **5331452**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	11.709	0.50	4.990	4.820	138	75	125	12.01	2.51	20	S

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

ANALYTICAL QC SUMMARY REPORT

TestCode: CA_6010_ST

Sample ID: **LCS-101348**	SampType: **LCS**	TestCode: **CA_6010_ST**	Units: **mg/L**	Prep Date: **8/7/2023**	RunNo: **174751**
Client ID: **LCSS**	Batch ID: **101348**	TestNo: **WET/ EPA 60**	**EPA 3010A**	Analysis Date: **8/7/2023**	SeqNo: **5340191**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.496	0.050	0.5000	0	99.2	85	115				

Sample ID: **MB-101348**	SampType: **MBLK**	TestCode: **CA_6010_ST**	Units: **mg/L**	Prep Date: **8/7/2023**	RunNo: **174751**
Client ID: **PBS**	Batch ID: **101348**	TestNo: **WET/ EPA 60**	**EPA 3010A**	Analysis Date: **8/7/2023**	SeqNo: **5340192**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.050									

Sample ID: **MB-101218 STLC**	SampType: **MBLK**	TestCode: **CA_6010_ST**	Units: **mg/L**	Prep Date: **8/7/2023**	RunNo: **174751**
Client ID: **PBS**	Batch ID: **101348**	TestNo: **WET/ EPA 60**	**EPA 3010A**	Analysis Date: **8/7/2023**	SeqNo: **5340197**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.036	0.25									

Sample ID: **MB-101315 STLC**	SampType: **MBLK**	TestCode: **CA_6010_ST**	Units: **mg/L**	Prep Date: **8/7/2023**	RunNo: **174751**
Client ID: **PBS**	Batch ID: **101348**	TestNo: **WET/ EPA 60**	**EPA 3010A**	Analysis Date: **8/7/2023**	SeqNo: **5340198**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.034	0.25									

Sample ID: **MB-101271 STLC**	SampType: **MBLK**	TestCode: **CA_6010_ST**	Units: **mg/L**	Prep Date: **8/7/2023**	RunNo: **174751**
Client ID: **PBS**	Batch ID: **101348**	TestNo: **WET/ EPA 60**	**EPA 3010A**	Analysis Date: **8/7/2023**	SeqNo: **5340199**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.031	0.25									

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike/Surrogate outside of limits due to matrix interference
- DO Surrogate Diluted Out

Calculations are based on raw values

ANALYTICAL QC SUMMARY REPORT

TestCode: CA_6010_ST

Sample ID: **N058044-001B-MS** SampType: **MS** TestCode: **CA_6010_ST** Units: **mg/L** Prep Date: **8/7/2023** RunNo: **174751**
Client ID: **ZZZZZZ** Batch ID: **101348** TestNo: **WET/ EPA 60** **EPA 3010A** Analysis Date: **8/7/2023** SeqNo: **5340203**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.604	0.25	0.5000	0.06320	108	75	125				

Sample ID: **N058044-001B-MSD** SampType: **MSD** TestCode: **CA_6010_ST** Units: **mg/L** Prep Date: **8/7/2023** RunNo: **174751**
Client ID: **ZZZZZZ** Batch ID: **101348** TestNo: **WET/ EPA 60** **EPA 3010A** Analysis Date: **8/7/2023** SeqNo: **5340204**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.607	0.25	0.5000	0.06320	109	75	125	0.6043	0.446	20	

Sample ID: **N058134-002A-DUP** SampType: **DUP** TestCode: **CA_6010_ST** Units: **mg/L** Prep Date: **8/7/2023** RunNo: **174751**
Client ID: **ZZZZZZ** Batch ID: **101348** TestNo: **WET/ EPA 60** **EPA 3010A** Analysis Date: **8/7/2023** SeqNo: **5340209**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.155	0.25						0.1490	0	20	

Sample ID: **N058171-001A-DUP** SampType: **DUP** TestCode: **CA_6010_ST** Units: **mg/L** Prep Date: **8/7/2023** RunNo: **174751**
Client ID: **ZZZZZZ** Batch ID: **101348** TestNo: **WET/ EPA 60** **EPA 3010A** Analysis Date: **8/7/2023** SeqNo: **5340216**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.137	0.25						0.1512	0	20	

Sample ID: **MB-101318 STLC** SampType: **MBLK** TestCode: **CA_6010_ST** Units: **mg/L** Prep Date: **8/7/2023** RunNo: **174751**
Client ID: **PBS** Batch ID: **101348** TestNo: **WET/ EPA 60** **EPA 3010A** Analysis Date: **8/7/2023** SeqNo: **5340224**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.041	0.25									

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: American Environmental Testing Laboratory, Inc.
Work Order: N058271
Project: BEG0118.03

ANALYTICAL QC SUMMARY REPORT

TestCode: CA_6010_TC

Sample ID: **LCS-101356**	SampType: **LCS**	TestCode: **CA_6010_TC**	Units: **mg/L**	Prep Date: **8/6/2023**	RunNo: **174772**
Client ID: **LCSS**	Batch ID: **101356**	TestNo: **EPA 1311/ 60 EPA 3010A**		Analysis Date: **8/7/2023**	SeqNo: **5341827**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.500	0.050	0.5000	0	100	85	115				

Sample ID: **MB-101356**	SampType: **MBLK**	TestCode: **CA_6010_TC**	Units: **mg/L**	Prep Date: **8/6/2023**	RunNo: **174772**
Client ID: **PBS**	Batch ID: **101356**	TestNo: **EPA 1311/ 60 EPA 3010A**		Analysis Date: **8/7/2023**	SeqNo: **5341828**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.050									

Sample ID: **N058201-004G-MS**	SampType: **MS**	TestCode: **CA_6010_TC**	Units: **mg/L**	Prep Date: **8/6/2023**	RunNo: **174772**
Client ID: **ZZZZZZ**	Batch ID: **101356**	TestNo: **EPA 1311/ 60 EPA 3010A**		Analysis Date: **8/7/2023**	SeqNo: **5341832**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.585	0.050	0.5000	0.004170	116	75	125				

Sample ID: **N058201-004G-MSD**	SampType: **MSD**	TestCode: **CA_6010_TC**	Units: **mg/L**	Prep Date: **8/6/2023**	RunNo: **174772**
Client ID: **ZZZZZZ**	Batch ID: **101356**	TestNo: **EPA 1311/ 60 EPA 3010A**		Analysis Date: **8/7/2023**	SeqNo: **5341833**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.574	0.050	0.5000	0.004170	114	75	125	0.5849	1.95	20	

Sample ID: **MB-101316 TCLP**	SampType: **MBLK**	TestCode: **CA_6010_TC**	Units: **mg/L**	Prep Date: **8/6/2023**	RunNo: **174772**
Client ID: **PBS**	Batch ID: **101356**	TestNo: **EPA 1311/ 60 EPA 3010A**		Analysis Date: **8/7/2023**	SeqNo: **5341870**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.005	0.050									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: American Environmental Testing Laboratory, Inc.
Work Order: N058271
Project: BEG0118.03

ANALYTICAL QC SUMMARY REPORT

TestCode: CA_6010_TC

Sample ID: **N058233-001A-DUP** SampType: **DUP** TestCode: **CA_6010_TC** Units: **mg/L** Prep Date: **8/6/2023** RunNo: **174772**
Client ID: **ZZZZZZ** Batch ID: **101356** TestNo: **EPA 1311/ 60 EPA 3010A** Analysis Date: **8/7/2023** SeqNo: **5341872**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.005	0.050						0.007110	0	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

N058271

AMERICAN ENVIRONMENTAL TESTING LABORATORY, LLC
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Telephone (888) 288-AETL • (818) 845-8200 • www.aetlab.com

KYZER LABS COMPANY

SUBCONTRACT CHAIN of CUSTODY

Sending Laboratory:

AETL
AETL, LLC. 2840 N. Naomi Street
Burbank, CA 91504
Phone: 818-845-8200

Project Manager: Hailley Coleman
Email: hcoleman@aetlab.com

Subcontracted Laboratory:

ASSET Laboratories
11110 Artesia Blvd.
Cerritos, CA 90703
Phone: (702)307-2659
Fax: (562)219-7435

Work Order: BEG0118.03 PO#SUB-35772

Analysis	Due	Expires	Comments
~~Sample ID: BEG0118-01~~ *Soil* *Sampled: 07/17/2023 07:20*			6020-AS: 1-DAY
6020-As (Arsenic, total by ICP/MS)	07/20/2023	01/13/2024 07:20	STLC/TCLP: 3-DAY
Containers Supplied:			
~~Sample ID: BEG0118-02~~ *Soil* *Sampled: 07/17/2023 07:46*			
TCLP-6010B-As (TCLP Arsenic by ICP)	07/20/2023	07/27/2023 07:46	
STLC-Extraction (STLC-Extraction)	07/20/2023	07/31/2023 07:46	
TCLP-Extraction (TCLP Extraction)	07/20/2023	10/25/2023 07:46	
6020-As (Arsenic, total by ICP/MS)	07/20/2023	01/13/2024 07:46	
STLC-6010B-As (STLC Arsenic by ICP)	07/20/2023	01/13/2024 07:46	
Containers Supplied:			
~~Sample ID: BEG0118-03~~ *Soil* *Sampled: 07/17/2023 07:47*			
6020-As (Arsenic, total by ICP/MS)	07/20/2023	01/13/2024 07:47	
Containers Supplied:			
~~Sample ID: BEG0118-05~~ *Soil* *Sampled: 07/17/2023 08:14*			
STLC-Extraction (STLC-Extraction)	07/20/2023	07/31/2023 08:14	
6020-As (Arsenic, total by ICP/MS)	07/20/2023	01/13/2024 08:14	
STLC-6010B-As (STLC Arsenic by ICP)	07/20/2023	01/13/2024 08:14	

Lab Vegas: 3.4°C
JM#3
GLS#: 8068

CA: 0.8°C IR #1

Approved by: HAILLEY COLEMAN 8/3/23
AETL Project Manager Date

[signature] 8-3-23 1453
Released By AETL Sample Control Date

[signature] Maribel R. 8/3/23 1453
Received By Courier Date

[signature] Maribel R. 8/3/23 1700
Released By Courier Date

Yeandra Rodriguez 8/4/23 0902
Received By Subcontract Laboratory Date

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SUBCONTRACT CHAIN of CUSTODY
(Continued)

Work Order: BEG0118 (Continued)

Analysis	Due	Expires	Comments
Containers Supplied:			
~~Sample ID: BEG0118-13~~ *Soil* *Sampled: 07/17/2023 08:46*			
6020-As (Arsenic, total by ICP/MS)	07/20/2023	01/13/2024 08:46	
Containers Supplied:			
~~Sample ID: BEG0118-15~~ *Soil* *Sampled: 07/17/2023 09:00*			
6020-As (Arsenic, total by ICP/MS)	07/20/2023	01/13/2024 09:00	
STLC-Extraction (STLC-Extraction)	07/24/2023	07/31/2023 09:00	
STLC-6010B-As (STLC Arsenic by ICP)	07/24/2023	01/13/2024 09:00	
Containers Supplied:			
~~Sample ID: BEG0118-16~~ *Soil* *Sampled: 07/17/2023 09:02*			
6020-As (Arsenic, total by ICP/MS)	07/24/2023	01/13/2024 09:02	
Containers Supplied:			
Sample ID: BEG0118-17 *Soil* *Sampled: 07/17/2023 09:04*			
6020-As (Arsenic, total by ICP/MS)	07/24/2023	01/13/2024 09:04	N058271-001
Containers Supplied:			
~~Sample ID: BEG0118-18~~ *Soil* *Sampled: 07/17/2023 09:28*			
6020-As (Arsenic, total by ICP/MS)	07/20/2023	01/13/2024 09:28	
Containers Supplied:			
~~Sample ID: BEG0118-21~~ *Soil* *Sampled: 07/17/2023 09:46*			
6020-As (Arsenic, total by ICP/MS)	07/20/2023	01/13/2024 09:46	

Approved by: _____ _____ CA: 0.8°C IR#1
AETL Project Manager Date

[signature] 8-3-23 1453 [signature] Marbel Maribel R. 8/3/23 1453
Released By AETL Sample Control Date Received By Courier Date

[signature] Marbel Maribel R. 8/3/23 1700 Yoandra Rodriguez 8/4/23 0902
Released By Courier Date Received By Subcontract Laboratory Date

Lt Vega 3.4°C SR# 3 BCS #: 8068

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SUBCONTRACT CHAIN of CUSTODY
(Continued)

Work Order: BEG0118 (Continued)

Analysis	Due	Expires	Comments
~~Sample ID: BEG0118-48~~ *Soil* *Sampled: 07/17/2023 11:46*			
STLC-Extraction (STLC-Extraction)	07/24/2023	07/31/2023 11:46	
TCLP-Extraction (TCLP Extraction)	07/24/2023	10/25/2023 11:46	
STLC-6010B-As (STLC Arsenic by ICP)	07/24/2023	01/13/2024 11:46	
Containers Supplied:			
Sample ID: BEG0118-49 *Soil* *Sampled: 07/17/2023 11:47*			
TCLP-6010B-As (TCLP Arsenic by ICP)	07/24/2023	07/27/2023 11:47	
STLC-Extraction (STLC-Extraction)	07/24/2023	07/31/2023 11:47	
TCLP-Extraction (TCLP Extraction)	07/24/2023	10/25/2023 11:47	N058271-002
~~6020-As (Arsenic, total by ICP/MS)~~	07/24/2023	01/13/2024 11:47	
STLC-6010B-As (STLC Arsenic by ICP)	07/24/2023	01/13/2024 11:47	
Containers Supplied:			
~~Sample ID: BEG0118-50~~ *Soil* *Sampled: 07/17/2023 12:01*			
6020-As (Arsenic, total by ICP/MS)	07/20/2023	01/13/2024 12:01	
Containers Supplied:			
~~Sample ID: BEG0118-51~~ *Soil* *Sampled: 07/17/2023 12:02*			
6020-As (Arsenic, total by ICP/MS)	07/20/2023	01/13/2024 12:02	
Containers Supplied:			
~~Sample ID: BEG0118-53~~ *Soil* *Sampled: 07/17/2023 12:11*			
6020-As (Arsenic, total by ICP/MS)	07/20/2023	01/13/2024 12:11	
Containers Supplied:			
~~Sample ID: BEG0118-54~~ *Soil* *Sampled: 07/17/2023 12:11*			

Approved by:

CA: 0.8°C IRH

AETL Project Manager — Date 1453

Released By AETL Sample Control — Date 8-3-23

Received By Courier — Date 8/3/23 1453

Released By Courier — Date 8/3/23 1700

Received By Subcontract Laboratory — Date 8/4/23 0902

Ld Vegd 3.4°c in# 3
GLS #: 8068

ASSET Laboratories

Please review the checklist below. Any NO signifies non-compliance. Any non-compliance will be noted and must be understood as having an impact on the quality of the data. All tests will be performed as requested regardless of any compliance issues.

If you have any questions or further instruction, please contact our Project Coordinator at (702) 307-2659.

Cooler Received/Opened On:	8/3/2023	Workorder:	N058271
Rep sample Temp (Deg C):	0.8	IR Gun ID:	1
Temp Blank:	☐ Yes ☑ No		
Carrier name:	Walk-In		
Last 4 digits of Tracking No.:	NA	Packing Material Used:	None
Cooling process:	☑ Ice ☐ Ice Pack ☐ Dry Ice ☐ Other ☐ None		

Sample Receipt Checklist

1. Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
2. Custody seals intact, signed, dated on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
3. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
4. Chain of custody present?	Yes ☑	No ☐	
5. Sampler's name present in COC?	Yes ☐	No ☑	
6. Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
7. Chain of custody agrees with sample labels?	Yes ☑	No ☐	
8. Samples in proper container/bottle?	Yes ☑	No ☐	
9. Sample containers intact?	Yes ☑	No ☐	
10. Sufficient sample volume for indicated test?	Yes ☐	No ☑	
11. All samples received within holding time?	Yes ☑	No ☐	
12. Temperature of rep sample or Temp Blank within acceptable limit?	Yes ☑	No ☐	NA ☐
13. Water - VOA vials have zero headspace?	Yes ☐	No ☐	NA ☑
14. Water - pH acceptable upon receipt? Example: pH > 12 for (CN,S); pH<2 for Metals	Yes ☐	No ☐	NA ☑
15. Did the bottle labels indicate correct preservatives used?	Yes ☐	No ☐	NA ☑
16. Were there Non-Conformance issues at login?	Yes ☑	No ☐	NA ☐
Was Client notified?	Yes ☑	No ☐	NA ☐

Comments: See correspondence. Received at Las Vegas Lab on 8/4/2023 at 3.4°C, IR#3, via GSO#8068.

Checklist Completed By: MR 8/4/2023

Reviewed By: for: MBC

Subject: Re: N058271, BEG0118.03
From: Hailley Coleman <hcoleman@aetlab.com>
Date: 8/3/2023, 5:50 PM
To: Maribel Ramos <maribel@assetlaboratories.com>
CC: "tmalit@assetlaboratories.com" <tmalit@assetlaboratories.com>, "kim@assetlaboratories.com" <kim@assetlaboratories.com>

Please proceed.

Thank you,
Hailley

Sent from my iPhone

> On Aug 3, 2023, at 5:35 PM, Maribel Ramos <maribel@assetlaboratories.com> wrote:
>
> Hailley,
>
> For sample BEG0118-49 we received insufficient sample. Do you want to continue with the analyses of STLC & TCLP for Arsenic.
>
> Thank you,
>
> Maribel Ramos

ASSET Laboratories

WORK ORDER Summary

04-Aug-23

WorkOrder: N058271

Client ID: AETL01

Project: BEG0118.03 **QC Level:** RTNE **Date Received:** 8/3/2023 2:53 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N058271-001A	BEG0118-17	7/17/2023 9:04:00 AM	8/4/2023	Soil	EPA 3050B	SOPREP TOTAL METALS	☐	☐	☐	WS
			8/4/2023		EPA 6020	TOTAL METALS BY ICPMS	☐	☐	☐	WS
N058271-002A	BEG0118-49	7/17/2023 11:47:00 AM	8/8/2023		EPA 1311	TCLP Sample Prep Metals	☐	☐	☐	WS-CA
			8/8/2023		EPA 3010A	AQPrep for Total Metals: ICP for STLC Extracts	☐	☐	☐	WS-CA
			8/8/2023		EPA 3010A	AQPrep for Total Metals	☐	☐	☐	WS-CA
			8/8/2023		WET/ EPA 6010B	ICP METALS by STLC	☐	☐	☐	WS-CA
			8/8/2023		EPA 1311/ 6010B	ICP METALS by TCLP Extraction	☐	☐	☐	WS-CA
			8/8/2023		WET	STLC Sample Prep Metals	☐	☐	☐	WS-CA
N058271-003A	FOLDER	8/4/2023	8/4/2023		Folder	Folder	☐	☐	☐	LAB
			8/4/2023		Folder	Folder	☐	☐	☐	LAB

GLS.

800-322-5555
www.gls-us.com

Ship From
ASSET LABORATORIES
THAD MALIT
11110 ARTESIA BLVD. SUITE B
CERRITOS, CA 90703

Ship To
ASSET LABORATORIES
SAMPLE CONTROL-LV
3151 W. POST RD.,
LAS VEGAS, NV 89118

COD: $0.00
Weight: 0 lb(s)
Reference:

Delivery Instructions:
HOLD FOR PICKUP
Signature Type: STANDARD

Tracking #: 559888068

PDS

LAS VEGAS

D00006O

91327353

LVS NV891-068

Print Date: 8/3/2023 4:40 PM

Package 1 of 2

LABEL INSTRUCTIONS:

Do not copy or reprint this label for additional shipments - each package must have a unique barcode.
Step 1: Use the "Print Label" button on this page to print the shipping label on a laser or inkjet printer.
Step 2: Fold this page in half.
Step 3: Securely attach this label to your package and do not cover the barcode.

TERMS AND CONDITIONS:

By giving us your shipment to deliver, you agree to all of the General Logistics Systems US, Inc. (GLS) service terms & conditions including, but not limited to; limits of liability, declared value conditions, and claim procedures which are available on our website at www.gls-us.com.

3.4°C
pkt 3

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August 17, 2023

AETL Job No: BEG0118.04
Received Date: 07/17/2023
Project Number: [none]

Parsons
100 West Walnut Street
Pasadena, CA 91124
Telephone: (626) 440-6200

Attention: Justin King

Project Name: LAUSD Canoga

Site: Canoga Park High School
6850 CA-27
Canoga Park, CA 91303

Enclosed please find the results of analyses for samples which were analyzed as specified on the attached chain of custody. If you have any questions concerning this report, please do not hesitate to call.

Checked By: Hailley Coleman
Hailley Coleman
Project Manager

Approved By: Joe Sevrean
Joe Sevrean
Laboratory Director

Table of Contents

Client Project Name: Canoga Park High School Project Number: [none]
Work Order Number: BEG0118

1 Cover Letter 1
2 Sample Condition on Receipt 3
3 Chain of Custody 4
4 Cooler Receipt Forms 9
5 Case Narrative 10
6 Samples Received 11
7 Positive Hits Summary 12
8 Analytical Results 13
9 Qualifiers and Definitions 14
10 Sub Contracted Analysis 16

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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEG0118 [none] Justin King LAUSD Canoga	Site: Reported:	Canoga Park High School 6850 CA-27 Canoga Park, CA 91303 08/17/2023 14:27

Sample Condition on Receipt

Cooler ID: Default Cooler **Temperature: 5.8 °C**

Are the COCs Correct	Y		
Labels Legible	Y	Containers In Good Condition	Y
COC/Labels Agree	Y	Samples Preserved Properly	Y
Sufficient Sample Volume	Y	Sufficient Holding Time for all Tests	Y
Sample Labels intact	Y	Received on Ice	Y

Cooler ID: New Cooler **Temperature: 5.7 °C**

Are the COCs Correct	Y		
Labels Legible	Y	Containers In Good Condition	Y
COC/Labels Agree	Y	Samples Preserved Properly	Y
Sufficient Sample Volume	Y	Sufficient Holding Time for all Tests	Y
Sample Labels intact	Y	Received on Ice	Y

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

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A KYZER LABS COMPANY

CHAIN OF CUSTODY RECORD

AETL JOB No. BEG0118

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut street Pasadena, CA 91124
PHONE EMAIL: (310) 809-5793
PROJECT NAME: LAUSD Canoga
PROJECT #:
SITE NAME AND ADDRESS: Canoga Park Highschool 6850 CA 27 Canoga Park, CA 91303
PO #: 453413

ANALYSIS REQUESTED

	SAMPLE ID	LAB ID BEG0118	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	STLC-Pb	TLLP-Pb	STLC-As	TLLP-As					TEST INSTRUCTIONS & COMMENTS
1	SB-38-SW-25-D0.5	01	7/17/2023	0720	Soil	1x 9oz	none		X									
2	SB-26-SW-10-D0.5	02	7-17-2023	0746	Soil	1x 9oz	none		X			X	X					~~Hold~~ ED.
3	SB-26-SW-10-D2.0	03	7-17-2023	0747	Soil	1x 9oz	none		X									Hold
4	SB-26-SW-10-D3.0	04	7-17-2023	0748	Soil	1x 9oz	none		~~X~~ ED.									Hold
5	SB-26-SW15-D0.5	05	7-17-2023	0814	Soil	1x 9oz	none		X			X						~~Hold~~ ED.
6	SB-26-SW15-D2.0	06	7-17-2023	0815	Soil	1x 9oz	none		X									Hold
7	SB-26-SW15-D3.0	07	7-17-2023	0816	Soil	1x 9oz	none											Hold
8	SB-26-E15-D0.5 Dup	08	7-17-2023	0823	Soil	~~[illegible]~~ 1x 9oz	none		X			X						
9	SB-26-E15-D2.0	09	7-17-2023	0827	Soil	1x 9oz	none		X									Hold
10	SB-26-E15-D3.0	10	7-17-2023	0829	Soil	1x 9oz	none											Hold
11	SB-26-E15-D0.5 ~~Dup~~	11	7-17-2023	0823	Soil	1x 9oz	none		X			X						
12	SB-26-SE10 D0.5	12	7-17-2023	0842	Soil	1x 9oz	none		X			X	X					
13	SB-26-SE10 D2.0	13	7-17-2023	0846	Soil	1x 9oz	none		X									Hold
14	SB-26-SE10 D3.0	14	7-17-2023	0849	Soil	1x 9oz	none											Hold
15																		

TOTAL NUMBER OF CONTAINERS: 14

BILLING INFORMATION / SPECIAL INSTRUCTIONS

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: [signature]	Signature:	Signature:
Printed Name: Edward Dabsys	Printed Name:	Printed Name:
Date: 7/17/2023 Time: 1550	Date: Time:	Date: Time:

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: AETL 3.
Signature:	Signature:	Signature: [signature]
Printed Name:	Printed Name:	Printed Name: Carla Ciriegoras
Date: Time:	Date: Time:	Date: 7/17/23 Time: 15:50

TURN AROUND TIME
- [ ] NORMAL
- [ ] SAME DAY RUSH
- [ ] NEXT DAY RUSH
- [ ] 2 DAYS RUSH
- [x] 3 DAYS RUSH
- [ ] 4 DAYS RUSH

DATA DELIVERABLE REQUIRED
- [ ] HARD COPY
- [ ] E-COPY
- [ ] GEOTRACKER (GLOBAL ID) _____
- [ ] OTHER (PLEASE SPECIFY) _____

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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CHAIN OF CUSTODY RECORD

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut street Pasadena, CA 91124
PHONE / EMAIL: (310) 809-5793
PROJECT NAME: LAUSD Canoga
PROJECT #:
SITE NAME AND ADDRESS: Canoga Park High school 6850 Canoga Park, CA 91303
PO #: CA27 453413
AETL JOB No.: BE-20118
Page 2 of 5

	SAMPLE ID	LAB ID (BE-20118)	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	STLC-Pb	TCLP-Pb	STLC-As	TCLP-As	TEST INSTRUCTIONS & COMMENTS
1	SB-26-E25-D0.5	15	7-17-2023	0900	Soil	1x4oz	none		X			X		Hold
2	SB-26-E25-D2.0	16	7-17-2023	0902	Soil	1x4oz			X					Hold
3	SB-26-E25-D3.0	17	7-17-2023	0904	Soil	1x4oz			X					Hold
4	SB-7-SW-25-D0.5	18		928					X					
5	SB-7-SW-25-D2.0	19		0931										1-Hold
6	SB-7-SW-25-D3.0	20		0933										1-Hold
7	SB-7-SW20-D0.5	21		0946					X					
8	SB-7-SW20-D2.0	22		0948										Hold
9	SB-7-SW20-D3.0	23		0951										Hold
10	SB-7-S20-D0.5	24		0955					X					
11	SB-7-S20-D2.0	25		0957										Hold
12	SB-7-S20-D3.0	26		1000										Hold
13	SB-5-W-15-D0.5	27		1005					X					
14	SB-5-W15-D2.0	28		1007					X					Hold
15	SB-5-W15-D3.0	29		1010										Hold

ANALYSIS REQUESTED

TOTAL NUMBER OF CONTAINERS: 15

BILLING INFORMATION / SPECIAL INSTRUCTIONS

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: E. Salazar	Signature:	Signature:
Printed Name: Edward Dabsys	Printed Name:	Printed Name:
Date: 7/17/2023 Time: 1540	Date: Time:	Date: Time:
RECEIVED BY: 1.	**RECEIVED BY:** 2.	**RECEIVED BY LABORATORY:** 3.
Signature:	Signature:	Signature:
Printed Name:	Printed Name:	Printed Name:
Date: Time:	Date: Time:	Date: 7/17/23 Time: 15:50

TURN AROUND TIME
- [ ] NORMAL
- [ ] SAME DAY RUSH
- [ ] NEXT DAY RUSH
- [ ] 2 DAYS RUSH
- [x] 3 DAYS RUSH
- [ ] 4 DAYS RUSH

DATA DELIVERABLE REQUIRED
- [ ] HARD COPY
- [ ] E-COPY
- [ ] GEOTRACKER (GLOBAL ID) _____
- [ ] OTHER (PLEASE SPECIFY) _____

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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TEL (888) 288-AETL (818) 845-8200 FAX (818) 845-8840 www.aetlab.com
A KYZER LABS COMPANY

CHAIN OF CUSTODY RECORD

AETL JOB No. BE60118

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut Street Pasadena, CA 91124
PHONE EMAIL: (310) 809-5793
PROJECT NAME: LAUSD Canoga
PROJECT #:
SITE NAME AND ADDRESS: Canoga Park Highschool 6850 CA-27 Canoga Park, CA 91303
PO #: 453413

ANALYSIS REQUESTED

	SAMPLE ID	LAB ID BE60118	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	STLC-Pb	TLLP-Pb	STLC-As	TLLP-As					TEST INSTRUCTIONS & COMMENTS
1	SB-5-E20-D0.5	30	7/17/2023	1015	Soil	1x 9oz	none		X			X	X					
2	SB-5-E20-D2.0	31		1020					X									Hold
3	SB-5-E20-D3.0	32		1022														Hold
4	SB-5-E20-D0.5DUP	33		1017					X			X	X					
5	SB-1-W10-D0.5	34		1046					X									
6	SB-1-W10-D2.0	35		1048					X									Hold
7	SB-1-W10-D3.0	36		1051														Hold
8	SB-1-SW20-D0.5	37		1054					X									
9	SB-1-SW20-D2.0	38		1056					X									Hold
10	SB-1-SW20-D3.0	39		1059														Hold
11	SB-3-S15-D0.5	40		1103				X		X	X							Hold
12	SB-3-S15-D2.0	41		1105				X										Hold
13	SB-3-S15-D3.0	42		1108														Hold
14	SB-3-S10-D0.5	43		1111				X		X	X							
15	SB-3-S10-D0.5DUP	44		1113				X		X								

TOTAL NUMBER OF CONTAINERS: 15

BILLING INFORMATION / SPECIAL INSTRUCTIONS

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: E. Galarza	Signature:	Signature:
Printed Name: Edward Dabsys	Printed Name:	Printed Name:
Date: 7/17/2023 Time: 1550	Date: Time:	Date: Time:

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: AETL 3.
Signature:	Signature:	Signature:
Printed Name:	Printed Name:	Printed Name: Cereta Caregosin
Date: Time:	Date: Time:	Date: 07/17/23 Time: 15:50

TURN AROUND TIME
- [ ] NORMAL
- [ ] SAME DAY RUSH
- [ ] NEXT DAY RUSH
- [ ] 2 DAYS RUSH
- [x] 3 DAYS RUSH
- [ ] 4 DAYS RUSH

DATA DELIVERABLE REQUIRED
- [ ] HARD COPY
- [ ] E-COPY
- [ ] GEOTRACKER (GLOBAL ID) _____
- [ ] OTHER (PLEASE SPECIFY) _____

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CHAIN OF CUSTODY RECORD

COMPANY: Parsons
PROJECT MANAGER: Justin King
COMPANY ADDRESS: 100 W. Walnut Street Pasadena, CA 91124
PHONE / EMAIL: (310) 809-5793
PROJECT NAME: LAUSD Canoga
PROJECT #:
SITE NAME AND ADDRESS: Canoga Park Highschool, 6850 CA-27 Canoga Park, CA 91303
PO #: 453413
AETL JOB No.: BE-Q0118
Page 4 of 5

	SAMPLE ID	LAB ID (BE-Q0118)	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6020)	STLC-Pb	TLCP-Pb	STLC-As	TLCP-As	TEST INSTRUCTIONS & COMMENTS
1	SB-3-S10-D2.0	45	7/17/2023	1115	Soil	1x9oz	none	X						Hold
2	SB-3-S10-D3.0	46		1117										Hold
3	SB-51-SW10-D0.5	47		1145					X			X	X	
4	SB-51-SW10-D2.0	48		1146					X			X	X	Hold
5	SB-51-SW10-D3.0	49		1147					X			X	X	Hold
6	SB-51-S10-D0.5	50		1201					X					
7	SB-51-S10-D2.0	51		1202					X					Hold
8	SB-51-S10-D3.0	52		1203										Hold
9	SB-51-SE10-D0.5	53		1211					X					
10	SB-51-SE10-D0.5 DUP	54		1211					X					
11	SB-51-SE10-D2.0	55		1212					X					Hold
12	SB-51-SE10-D3.0	56		1213										Hold
13	SB-51-SW10-D0.5	57		1223					X	E.D.				Hold
14	SB-51-SW10-D2.0	58		1226										Hold
15	SB-51-SW10-D3.0	59	↓	1230	↓	↓	↓							Hold

ANALYSIS REQUESTED

TOTAL NUMBER OF CONTAINERS: 15

BILLING INFORMATION / SPECIAL INSTRUCTIONS

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: E Salazar	Signature:	Signature:
Printed Name: Edward Salazar	Printed Name:	Printed Name:
Date: 7/17/2023 Time: 1550	Date: Time:	Date: Time:
RECEIVED BY: 1.	**RECEIVED BY:** 2.	**RECEIVED BY LABORATORY:** 3.
Signature:	Signature:	Signature:
Printed Name:	Printed Name:	Printed Name:
Date: Time:	Date: Time:	Date: 7/17/23 Time: 18:50

TURN AROUND TIME
☐ NORMAL ☐ SAME DAY RUSH ☐ NEXT DAY RUSH
☐ 2 DAYS RUSH ☑ 3 DAYS RUSH ☐ 4 DAYS RUSH

DATA DELIVERABLE REQUIRED
☐ HARD COPY
☐ E-COPY
☐ GEOTRACKER (GLOBAL ID) _____
☐ OTHER (PLEASE SPECIFY) _____

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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CHAIN OF CUSTODY RECORD

AETL JOB No. BE-0118

COMPANY	Parsons
PROJECT MANAGER	Justin King
COMPANY ADDRESS	100 w. Walnut street Pasadena, CA 91124
PHONE / EMAIL	(310) 809-5793
PROJECT NAME	LAUSD Canoga
PROJECT #	453413
SITE NAME AND ADDRESS	Canoga Park Highschool 6850 CA-27 Canoga Park, CA 91303
PO #	

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Lead (6010B)	Arsenic (6010)	STLC-Pb	TCLP-Pb	STLC-As	TCLP-As	TEST INSTRUCTIONS & COMMENTS
1	SB-44-S20-D0.5	60	7/17/2023	1250	Soil	1x 902	none		X					
2	SB-44-S20-D2	61		1251					X			X		Hold
3	SB-44-S20-D30	62		1252					X					Hold
4	SB-44-N20-D0.5	63		1301					X			X		
5	SB-44-N20-D2	64		1304					X			X		Hold
6	SB-44-N20-D30	65		1306					X					Hold
7														
8														
9														
10														
11														
12														
13														
14														
15														

ANALYSIS REQUESTED

TOTAL NUMBER OF CONTAINERS: 6

BILLING INFORMATION / SPECIAL INSTRUCTIONS

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: E. Salazar	Signature:	Signature:
Printed Name: Edward Delgado	Printed Name:	Printed Name:
Date: 7/17/2023 Time: 1550	Date: Time:	Date: Time:
RECEIVED BY: 1.	**RECEIVED BY:** 2.	**RECEIVED BY LABORATORY:** 3.
Signature:	Signature:	Signature:
Printed Name:	Printed Name:	Printed Name:
Date: Time:	Date: Time:	Date: 7/17/23 Time: 1550

TURN AROUND TIME

- ☐ NORMAL
- ☐ SAME DAY RUSH
- ☐ NEXT DAY RUSH
- ☐ 2 DAYS RUSH
- ☑ 3 DAYS RUSH
- ☐ 4 DAYS RUSH

DATA DELIVERABLE REQUIRED

- ☐ HARD COPY
- ☐ E-COPY
- ☐ GEOTRACKER (GLOBAL ID) _____
- ☐ OTHER (PLEASE SPECIFY) _____

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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COOLER RECEIPT FORM

Client Name: Parsons

Project Name: LAUSD Canoga Project No.:

AETL Job Number: BEG0118

Date Received: 07/17/2023 Received by: Greta G

Carrier: ☐ AETL Courier ☑ Client ☐ GSL ☐ FedEx ☐ UPS
☐Others:

Samples were received in: ☑ Cooler (__2_____) ☐ Other (Specify):

Sample Container Temperature: __5.8__ °C IR Gun S/N: 51941911MV

Type of sample containers: ☐ VOA, ☐ Glass bottles, ☑Wide mouth jars, ☐HDPE bottles, ☐ Metal sleeves, ☐ Acetate sleeves, ☐ 5035 Kit: ☐ AETL or ☐ Client, ☐ Tedlar Bags, Summa Canister: ☐ 6L, ☐ 3L, ☐ 1L, Others (Specify): _____

How are samples preserved: ☐ None, ☑ Ice, ☐ Blue Ice, ☐ Dry Ice
☑ None, ☐ HNO_3, ☐ NaOH, ☐ ZnOAc, ☐ HCl, ☐ $Na_2S_2O_3$, ☐ MeOH, ☐ $NaHSO_4$
☐ Other (Specify):

	Yes	No	N/A	Note or Comment
1. Are the COCs Correct?	✔			
2. Are Sample labels legible & indelible ink?	✔			
3. Do samples match the COC?	✔			
4. Are the required analyses clear?	✔			
5. Is there enough samples for required analysis?	✔			
6. Does cooler or samples have custody seal(s)?			✔	
7. Are sample containers in good condition?	✔			
8. Are samples preserved?	✔			
9. Are samples preserved properly for the intended analysis?	✔			
10. Are the VOAs free of headspace? See footnote.			✔	
11. Are the jars free of headspace?			✔	

* = see note below. N/A = Not Applicable

PLEASE NOTE ALL SAMPLES WILL BE DISPOSED OF 30 DAYS AFTER RECEIVING DATE. IF AETL IS INFORMED OTHERWISE, THERE WILL BE A STORAGE CHARGE PER SAMPLE PER MONTH FOR ANY SAMPLE HELD BEYOND 30 DAYS.

◯ Example maximum headspace bubble size; acceptance criteria not to exceed 5-6 mm in diameter.

For headspace bubbles exceeding 6 mm in diameter, sample receiving will tag the VOA and notify the Project Manager. The Project Manager will contact client for Analyze or Resample instructions.

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A KYZER LABS COMPANY

Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEG0118 [none] Justin King LAUSD Canoga	Site: Reported:	Canoga Park High School 6850 CA-27 Canoga Park, CA 91303 08/17/2023 14:27

Case Narrative

The following "Sample Received" Section summarizes the samples received and associated analyses requested as specified on the enclosed chain of custody.

Results as reported by the laboratory apply only to 1) the items tested, 2) as the samples are received, and 3) the accuracy of information provided. Information supplied by the customer that may affect validity of results and may be contained in this report include Project Name/Number, Site Location, Sample Locations, Sampling Dates/Times, Sample ID, Sample Preservation, Sample Matrix, Sample Properties, Field Blanks, Field Duplicates, Field Spikes, and Site Historical Data.

Accreditation applies only to the test methods listed on each scope of accreditation held by the laboratory; certifications held by the laboratory may not apply to results supplied in this report.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

Qualifiers are noted in the report.

The samples were subcontracted to Asset Laboratories for EPA 6020, STLC, and TCLP. Please see attached report for results.

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

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Telephone (888) 288-AETL • (818) 845-8200 • www.aetlab.com
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Parsons	AETL Job Number:	BEG0118	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LAUSD Canoga	Reported:	08/17/2023 14:27	

Samples Received

AETL received the following samples on 07/17/2023 with the following specifications

Client ID	Sample Date
SB-26-E25-D0.5	07/17/2023 9:00

Lab ID	Matrix	Quantity of Containers
BEG0118-15	Soil	3

Method	Analyte	Units	TAT
EPA 6010B-1311 TCLP	TCLP Arsenic by ICP	mg/L	5

Total Number of Samples received: 1

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

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A KYZER LABS COMPANY

Parsons	AETL Job Number:	BEG0118	Site:	Canoga Park High School
100 West Walnut Street	Project Number:	[none]		6850 CA-27
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303
	Project Name:	LAUSD Canoga	Reported:	08/17/2023 14:27

Positive Hits Summary

Lab ID	Client ID					Sampled
Method	Analyte	Result	Qualifier	Unit		Analyzed

No positive results reported

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEG0118 [none] Justin King LAUSD Canoga	Site: Reported:	Canoga Park High School 6850 CA-27 Canoga Park, CA 91303 08/17/2023 14:27

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
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Telephone (888) 288-AETL • (818) 845-8200 • www.aetlab.com
A KYZER LABS COMPANY

Parsons	AETL Job Number:	BEG0118	Site:	Canoga Park High School	
100 West Walnut Street	Project Number:	[none]		6850 CA-27	
Pasadena, CA 91124	Attention:	Justin King		Canoga Park, CA 91303	
	Project Name:	LAUSD Canoga	Reported:	08/17/2023 14:27	

Qualifiers and Definitions

Item	Definitions
% wt	Percent Weight
%REC	Percent Recovery
°F	Degrees Fahrenheit
AETL	American Environmental Testing Laboratory, LLC
C	Carbon
CARB	California Air Resources Board
COC	Chain of Custody
Cresols	3-methylphenol/4-methylphenol coelute and cannot be chromatographically separated. Due to this coeluting isomer pair phenomenon, the laboratory uses a single cresol (4-methylphenol) as calibration standard for 3-methylphenol/4-methylphenol.
CRM	Certified Reference Material
DI	Deionized Water
DPD	Department of Planning and Development
DRO	Diesel Range Organics
Dup	Duplicate
ELAP	Environmental Laboratory Accreditation Program
EPA	Environmental Protection Agency
GC/FID	Gas Chromatography Flame Ionization Detection
GRO	Gasoline Range Organics
HC	Hydrocarbon
HEM	Hexane Extractable Material
HMU	Hazardous Material Unit
ICP/MS	Inductively Coupled Plasma Mass Spectrometry
LACSD	Los Angeles County Sanitation Districts
LCS	Laboratory Control Sample - A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes.
LCSD	Laboratory Control Sample Duplicate - A replicate of Laboratory Control Sample.
LOQ	Limit of Quantitation
MDL	Method Detection Limit - The minimum measured concentration of a substance that can be reported with 99% confidence. MDL is statistically derived number which is specific for each instrument, each method and each compound.
mg/kg	Miligrams per Kilogram
mg/L	Miligrams per Liter
ml/L/hr	Milliliter per Liter per Hour
MRO	Motor oil Range Organics
MS	Matrix Spike - A sample prepared, taken through all sample preparation and analytical steps of the procedure and analyzed as an independent test results.
MSD	Matrix Spike Duplicate - A replicate of Matrix Spike Sample.
N	No
ND	Analyte is not detected below Method Detection Limit.

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

Parsons 100 West Walnut Street Pasadena, CA 91124	AETL Job Number: Project Number: Attention: Project Name:	BEG0118 [none] Justin King LAUSD Canoga	Site: Reported:	Canoga Park High School 6850 CA-27 Canoga Park, CA 91303 08/17/2023 14:27

ng/m3	Nanograms per cubic meter
NIOSH	National Institute for Occupational Safety and Health
nL/L	Nanoliters per Liter
NTU	Nephelometric Turbidity Units
Ohm-cm	Ohms per centimeter
ORO	Oil Range Organics
OSHA	Occupational Safety and Health Administration
PCB	Polychlorinated Biphenyl
ppb v	Parts per billion by volume
ppmC	Parts per million Carbon
PSU	Practical Salinity Unit
RL	Reporting Limit - The lowest concentration at which an analyte can be detected in a sample and its concentration can be reported with a specified degree of confidence, accuracy and precision. For usage at AETL, RL is equivalant to LOQ.
RPD	Relative Percent Difference
SIM	Selective Ion Monitoring
SM	Standard Method
SPLP	Synthetic Precipitation Leaching Procedure
STLC	Soluble Threshold Limit Concentration
TCLP	Toxicity Characteristic Leaching Procedure
TPH	Total Petroleum Hydrocarbons
TTLC	Total Threshold Limit Concentrations
ug/kg	Micrograms per Kilogram
ug/L	Micrograms per Liter
ug/m3	Micrograms per cubic meter
WET	Waste Extraction Test
Y	Yes
ZHE	Zero Headspace Extraction

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document.
No duplication of this report is allowed, except in its entirety without written approval of the laboratory.

August 17, 2023

Hailley Coleman
American Environmental Testing Laboratory, Inc.
2834 N. Naomi Street
Burbank, CA 91504

TEL: (818) 845-8200
FAX:

Workorder No.: N058478

RE: BEG0118.02

Attention: Hailley Coleman

Enclosed are the results for sample(s) received on August 10, 2023 by ASSET Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562) 219-7435 if I can be of further assistance to your company.

Sincerely,



Ferdinand Paul Lugtu
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and ASSET Laboratories - California.

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

All sample containers were received intact with proper chain of custody documentation.

Information on sample receipt conditions including discrepancies can be found in attached Sample Receipt Checklist Form.

Cooler temperature and sample preservation were verified upon receipt of samples if applicable.

Samples were analyzed within method holding time.

Analytical Comments for EPA 1311/6010B:

Limited sample amount was submitted for 1311 extraction.

CLIENT: American Environmental Testing Laborator
Project: BEG0118.02
Lab Order: N058478
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N058478-001A	BEG0118-15	Soil	7/17/2023 9:00:00 AM	8/10/2023	8/17/2023

CLIENT:	American Environmental Testing Laborator	**Client Sample ID:**	BEG0118-15
Lab Order:	N058478		
Project:	BEG0118.02	**Collection Date:**	7/17/2023 9:00:00 AM
Lab ID:	N058478-001	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS BY TCLP EXTRACTION						
EPA 3010A				**EPA 1311/ 6010B**		
RunID: CA01638-ICP01_230816C	QC Batch: 101604			PrepDate:	8/16/2023	Analyst: **PL**
Arsenic	0.78	0.050		mg/L	1	8/16/2023 04:50 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: American Environmental Testing Laboratory, Inc.
Work Order: N058478
Project: BEG0118.02

ANALYTICAL QC SUMMARY REPORT

TestCode: CA_6010_TC

Sample ID: **LCS-101604**	SampType: **LCS**	TestCode: **CA_6010_TC**	Units: **mg/L**	Prep Date: **8/16/2023**	RunNo: **175096**
Client ID: **LCSS**	Batch ID: **101604**	TestNo: **EPA 1311/ 60 EPA 3010A**		Analysis Date: **8/16/2023**	SeqNo: **5360441**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.479	0.050	0.5000	0	95.8	85	115				

Sample ID: **MB-101604**	SampType: **MBLK**	TestCode: **CA_6010_TC**	Units: **mg/L**	Prep Date: **8/16/2023**	RunNo: **175096**
Client ID: **PBS**	Batch ID: **101604**	TestNo: **EPA 1311/ 60 EPA 3010A**		Analysis Date: **8/16/2023**	SeqNo: **5360442**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.050									

Sample ID: **MB-101560 TCLP**	SampType: **MBLK**	TestCode: **CA_6010_TC**	Units: **mg/L**	Prep Date: **8/16/2023**	RunNo: **175096**
Client ID: **PBS**	Batch ID: **101604**	TestNo: **EPA 1311/ 60 EPA 3010A**		Analysis Date: **8/16/2023**	SeqNo: **5360443**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.005	0.050									

Sample ID: **N058478-001A-MS**	SampType: **MS**	TestCode: **CA_6010_TC**	Units: **mg/L**	Prep Date: **8/16/2023**	RunNo: **175096**
Client ID: **ZZZZZZ**	Batch ID: **101604**	TestNo: **EPA 1311/ 60 EPA 3010A**		Analysis Date: **8/16/2023**	SeqNo: **5360449**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	1.289	0.050	0.5000	0.7760	103	75	125				

Sample ID: **N058478-001A-MSD**	SampType: **MSD**	TestCode: **CA_6010_TC**	Units: **mg/L**	Prep Date: **8/16/2023**	RunNo: **175096**
Client ID: **ZZZZZZ**	Batch ID: **101604**	TestNo: **EPA 1311/ 60 EPA 3010A**		Analysis Date: **8/16/2023**	SeqNo: **5360450**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	1.292	0.050	0.5000	0.7760	103	75	125	1.289	0.245	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

ASSET Laboratories

Please review the checklist below. Any NO and/or NA signifies non-compliance. Any non-compliance will be noted and must be understood as having an impact on the quality of the data. All tests will be performed as requested regardless of any compliance issues.

If you have any questions or further instruction, please contact our Project Coordinator at (702) 307-2659.

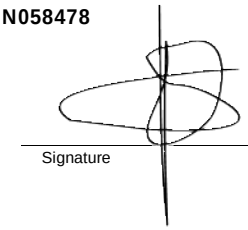
Change Order Checklist

Client Name: **AETL01**

Date / Time Created: **8/10/2023 3:12:56 PM**

Work Order Number: **N058478**

Created by: **KS**

Checklist completed by:  8/10/2023

Signature | Date

Reviewed  /10/2023

Date

1. All samples within holding time?	Yes ☑	No ☐
2. Refrigerator temperature in compliance?	Yes ☑	No ☐
3. Change Order documents present?	Yes ☑	No ☐

Comments:

ASSET Laboratories

WORK ORDER Summary

10-Aug-23

WorkOrder: N058478

Client ID: AETL01

Project: BEG0118.02 **QC Level:** RTNE **Date Received:** 8/10/2023 12:00 AM

Comments: Addendum WO for N058149

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N058478-001A	BEG0118-15	7/17/2023 9:00:00 AM	8/16/2023	Soil	EPA 1311	TCLP Sample Prep Metals	☐	☐	☐	WS-CA
			8/16/2023		EPA 3010A	AQPrep for Total Metals	☐	☐	☐	WS-CA
			8/16/2023		EPA 1311/ 6010B	ICP METALS by TCLP Extraction	☐	☐	☐	WS-CA
N058478-002A	FOLDER	8/16/2023	8/16/2023		Folder	Folder	☐	☐	☐	LAB

APPENDIX I

1	**UCL Statistics for Uncensored Full Data Sets**											
2												
3			User Selected Options									
4			Date/Time of Computation	ProUCL 5.2 8/14/2023 1:27:50 PM								
5			From File	WorkSheet.xls								
6			Full Precision	OFF								
7			Confidence Coefficient	95%								
8			Number of Bootstrap Operations	2000								
9												
10												
11	**Aroclor-1254**											
12												
13						**General Statistics**							
14					Total Number of Observations	22			Number of Distinct Observations	3		
15									Number of Missing Observations	0		
16					Minimum	5.95			Mean	20.08		
17					Maximum	293			Median	5.95		
18					SD	61			Std. Error of Mean	13.01		
19					Coefficient of Variation	3.038			Skewness	4.679		
20												
21						**Normal GOF Test**						
22					Shapiro Wilk Test Statistic	0.242			**Shapiro Wilk GOF Test**			
23					1% Shapiro Wilk Critical Value	0.878			Data Not Normal at 1% Significance Level			
24					Lilliefors Test Statistic	0.508			**Lilliefors GOF Test**			
25					1% Lilliefors Critical Value	0.214			Data Not Normal at 1% Significance Level			
26						**Data Not Normal at 1% Significance Level**						
27												
28						**Assuming Normal Distribution**						
29						**95% Normal UCL**				**95% UCLs (Adjusted for Skewness)**		
30					95% Student's-t UCL	42.46			95% Adjusted-CLT UCL (Chen-1995)	55.34		
31									95% Modified-t UCL (Johnson-1978)	44.62		
32												
33						**Gamma GOF Test**						
34					A-D Test Statistic	6.68			**Anderson-Darling Gamma GOF Test**			
35					5% A-D Critical Value	0.79			Data Not Gamma Distributed at 5% Significance Level			
36					K-S Test Statistic	0.442			**Kolmogorov-Smirnov Gamma GOF Test**			
37					5% K-S Critical Value	0.194			Data Not Gamma Distributed at 5% Significance Level			
38						**Data Not Gamma Distributed at 5% Significance Level**						
39												
40						**Gamma Statistics**						
41					k hat (MLE)	0.666			k star (bias corrected MLE)	0.606		
42					Theta hat (MLE)	30.13			Theta star (bias corrected MLE)	33.14		
43					nu hat (MLE)	29.32			nu star (bias corrected)	26.66		
44					MLE Mean (bias corrected)	20.08			MLE Sd (bias corrected)	25.8		
45									Approximate Chi Square Value (0.05)	15.89		
46					Adjusted Level of Significance	0.0386			Adjusted Chi Square Value	15.27		
47												
48						**Assuming Gamma Distribution**							
49					95% Approximate Gamma UCL	33.69			95% Adjusted Gamma UCL	35.06		
50												
51						**Lognormal GOF Test**						
52					Shapiro Wilk Test Statistic	0.4			**Shapiro Wilk Lognormal GOF Test**			

53			10% Shapiro Wilk Critical Value			0.926	Data Not Lognormal at 10% Significance Level					
54			Lilliefors Test Statistic			0.412	**Lilliefors Lognormal GOF Test**					
55			10% Lilliefors Critical Value			0.169	Data Not Lognormal at 10% Significance Level					
56	**Data Not Lognormal at 10% Significance Level**											
57												
58	**Lognormal Statistics**											
59			Minimum of Logged Data			1.783	Mean of logged Data					2.087
60			Maximum of Logged Data			5.68	SD of logged Data					0.848
61												
62	**Assuming Lognormal Distribution**											
63			95% H-UCL			17.92	90% Chebyshev (MVUE) UCL					18.02
64			95% Chebyshev (MVUE) UCL			21.06	97.5% Chebyshev (MVUE) UCL					25.29
65			99% Chebyshev (MVUE) UCL			33.59						
66												
67	**Nonparametric Distribution Free UCL Statistics**											
68	**Data do not follow a Discernible Distribution**											
69												
70	**Nonparametric Distribution Free UCLs**											
71			95% CLT UCL			41.47	95% BCA Bootstrap UCL					N/A
72			95% Standard Bootstrap UCL			N/A	95% Bootstrap-t UCL					N/A
73			95% Hall's Bootstrap UCL			N/A	95% Percentile Bootstrap UCL					N/A
74			90% Chebyshev(Mean, Sd) UCL			59.1	95% Chebyshev(Mean, Sd) UCL					76.77
75			97.5% Chebyshev(Mean, Sd) UCL			101.3	99% Chebyshev(Mean, Sd) UCL					149.5
76												
77	**Suggested UCL to Use**											
78			95% Student's-t UCL			42.46						
79												
80	**The calculated UCLs are based on assumptions that the data were collected in a random and unbiased manner.**											
81	**Please verify the data were collected from random locations.**											
82	**If the data were collected using judgmental or other non-random methods,**											
83	**then contact a statistician to correctly calculate UCLs.**											
84												
85	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
86	Recommendations are based upon data size, data distribution, and skewness using results from simulation studies.											
87	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
88												

1	**UCL Statistics for Uncensored Full Data Sets**											
2												
3	User Selected Options											
4	Date/Time of Computation	ProUCL 5.2 5/2/2023 1:56:59 PM										
5	From File	WorkSheet.xls										
6	Full Precision	OFF										
7	Confidence Coefficient	95%										
8	Number of Bootstrap Operations	2000										
9												
10												
11	**C0**											
12												
13	**General Statistics**											
14	Total Number of Observations	65				Number of Distinct Observations	43					
15						Number of Missing Observations	14					
16	Minimum	1.8				Mean	10.49					
17	Maximum	30				Median	7.5					
18	SD	6.846				Std. Error of Mean	0.849					
19	Coefficient of Variation	0.653				Skewness	1.099					
20												
21	**Normal GOF Test**											
22	Shapiro Wilk Test Statistic	0.861				**Shapiro Wilk GOF Test**						
23	1% Shapiro Wilk P Value	4.8316E-8				Data Not Normal at 1% Significance Level						
24	Lilliefors Test Statistic	0.192				**Lilliefors GOF Test**						
25	1% Lilliefors Critical Value	0.127				Data Not Normal at 1% Significance Level						
26	**Data Not Normal at 1% Significance Level**											
27												
28	**Assuming Normal Distribution**											
29	**95% Normal UCL**					**95% UCLs (Adjusted for Skewness)**						
30	95% Student's-t UCL	11.9				95% Adjusted-CLT UCL (Chen-1995)	12.01					
31						95% Modified-t UCL (Johnson-1978)	11.92					
32												
33	**Gamma GOF Test**											
34	A-D Test Statistic	1.332				**Anderson-Darling Gamma GOF Test**						
35	5% A-D Critical Value	0.76				Data Not Gamma Distributed at 5% Significance Level						
36	K-S Test Statistic	0.144				**Kolmogorov-Smirnov Gamma GOF Test**						
37	5% K-S Critical Value	0.112				Data Not Gamma Distributed at 5% Significance Level						
38	**Data Not Gamma Distributed at 5% Significance Level**											
39												
40	**Gamma Statistics**											
41	k hat (MLE)	2.672				k star (bias corrected MLE)	2.559					
42	Theta hat (MLE)	3.925				Theta star (bias corrected MLE)	4.098					
43	nu hat (MLE)	347.4				nu star (bias corrected)	332.7					
44	MLE Mean (bias corrected)	10.49				MLE Sd (bias corrected)	6.556					
45						Approximate Chi Square Value (0.05)	291.4					
46	Adjusted Level of Significance	0.0463				Adjusted Chi Square Value	290.5					
47												
48	**Assuming Gamma Distribution**											
49	95% Approximate Gamma UCL	11.97				95% Adjusted Gamma UCL	12.01					
50												
51	**Lognormal GOF Test**											
52	Shapiro Wilk Test Statistic	0.955				**Shapiro Wilk Lognormal GOF Test**						

53				10% Shapiro Wilk P Value		0.0469		Data Not Lognormal at 10% Significance Level				
54				Lilliefors Test Statistic		0.108		**Lilliefors Lognormal GOF Test**				
55				10% Lilliefors Critical Value		0.1		Data Not Lognormal at 10% Significance Level				
56				**Data Not Lognormal at 10% Significance Level**								
57												
58				**Lognormal Statistics**								
59				Minimum of Logged Data		0.588		Mean of logged Data				2.152
60				Maximum of Logged Data		3.401		SD of logged Data				0.639
61												
62				**Assuming Lognormal Distribution**								
63				95% H-UCL		12.34		90% Chebyshev (MVUE) UCL				13.22
64				95% Chebyshev (MVUE) UCL		14.45		97.5% Chebyshev (MVUE) UCL				16.15
65				99% Chebyshev (MVUE) UCL		19.5						
66												
67				**Nonparametric Distribution Free UCL Statistics**								
68				**Data do not follow a Discernible Distribution**								
69												
70				**Nonparametric Distribution Free UCLs**								
71				95% CLT UCL		11.88		95% BCA Bootstrap UCL				11.94
72				95% Standard Bootstrap UCL		11.87		95% Bootstrap-t UCL				12.08
73				95% Hall's Bootstrap UCL		12.03		95% Percentile Bootstrap UCL				11.86
74				90% Chebyshev(Mean, Sd) UCL		13.03		95% Chebyshev(Mean, Sd) UCL				14.19
75				97.5% Chebyshev(Mean, Sd) UCL		15.79		99% Chebyshev(Mean, Sd) UCL				18.94
76												
77				**Suggested UCL to Use**								
78				95% Student's-t UCL		11.9						
79												
80	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
81	Recommendations are based upon data size, data distribution, and skewness using results from simulation studies.											
82	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
83												

UCL - borings with STLC detections of lead <5 mg/kg removed from PROUCL

User Selected Options	
Date/Time of Computation	ProUCL 5.2 7/27/2023 6:22:28 PM
From File	WorkSheet.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Lead

General Statistics

Total Number of Observations	58	Number of Distinct Observations	57
		Number of Missing Observations	0
Minimum	0.625	Mean	15.66
Maximum	97.8	Median	11.1
SD	15.6	Std. Error of Mean	2.048
Coefficient of Variation	0.996	Skewness	3.217

Normal GOF Test

Shapiro Wilk Test Statistic	0.695	**Shapiro Wilk GOF Test**
1% Shapiro Wilk P Value	2.665E-15	Data Not Normal at 1% Significance Level
Lilliefors Test Statistic	0.195	**Lilliefors GOF Test**
1% Lilliefors Critical Value	0.134	Data Not Normal at 1% Significance Level

Data Not Normal at 1% Significance Level

Assuming Normal Distribution

95% Normal UCL		95% UCLs (Adjusted for Skewness)	
95% Student's-t UCL	19.09	95% Adjusted-CLT UCL (Chen-1995)	19.96
		95% Modified-t UCL (Johnson-1978)	19.23

Gamma GOF Test

A-D Test Statistic	0.889	**Anderson-Darling Gamma GOF Test**
5% A-D Critical Value	0.767	Data Not Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.0857	**Kolmogorov-Smirnov Gamma GOF Test**
5% K-S Critical Value	0.119	Detected data appear Gamma Distributed at 5% Significance Level

Detected data follow Appr. Gamma Distribution at 5% Significance Level

Gamma Statistics

k hat (MLE)	1.671	k star (bias corrected MLE)	1.596
Theta hat (MLE)	9.375	Theta star (bias corrected MLE)	9.815
nu hat (MLE)	193.8	nu star (bias corrected)	185.1
MLE Mean (bias corrected)	15.66	MLE Sd (bias corrected)	12.4
		Approximate Chi Square Value (0.05)	154.6
Adjusted Level of Significance	0.0459	Adjusted Chi Square Value	153.9

Assuming Gamma Distribution

95% Approximate Gamma UCL	18.75	95% Adjusted Gamma UCL	18.84

Lognormal GOF Test

Shapiro Wilk Test Statistic	0.98	**Shapiro Wilk Lognormal GOF Test**
10% Shapiro Wilk P Value	0.698	Data appear Lognormal at 10% Significance Level
Lilliefors Test Statistic	0.0747	**Lilliefors Lognormal GOF Test**
10% Lilliefors Critical Value	0.106	Data appear Lognormal at 10% Significance Level

Data appear Lognormal at 10% Significance Level

Lognormal Statistics

Minimum of Logged Data	-0.47	Mean of logged Data	2.423
Maximum of Logged Data	4.583	SD of logged Data	0.823

Assuming Lognormal Distribution

95% H-UCL	20.01	90% Chebyshev (MVUE) UCL	21.47
95% Chebyshev (MVUE) UCL	24.07	97.5% Chebyshev (MVUE) UCL	27.69
99% Chebyshev (MVUE) UCL	34.8		

Nonparametric Distribution Free UCL Statistics

Data appear to follow a Discernible Distribution

Nonparametric Distribution Free UCLs

95% CLT UCL	19.03	95% BCA Bootstrap UCL	20.53
95% Standard Bootstrap UCL	19.01	95% Bootstrap-t UCL	21
95% Hall's Bootstrap UCL	23.26	95% Percentile Bootstrap UCL	19.3
90% Chebyshev(Mean, Sd) UCL	21.81	95% Chebyshev(Mean, Sd) UCL	24.59
97.5% Chebyshev(Mean, Sd) UCL	28.46	99% Chebyshev(Mean, Sd) UCL	36.04

Suggested UCL to Use

95% Approximate Gamma UCL 18.75

When a data set follows an approximate distribution passing only one of the GOF tests,
it is suggested to use a UCL based upon a distribution passing both GOF tests in ProUCL

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness using results from simulation studies.
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

UCL Statistics for Data Sets with Non-Detects		
User Selected Options		
Date/Time of Computation	ProUCL 5.2 4/17/2023 5:54:52 PM	
From File	WorkSheet.xls	
Full Precision	OFF	
Confidence Coefficient	95%	
Number of Bootstrap Operations	2000	

Dieldrin

General Statistics

Total Number of Observations	58	Number of Distinct Observations	27
Number of Detects	25	Number of Non-Detects	33
Number of Distinct Detects	25	Number of Distinct Non-Detects	2
Minimum Detect	0.113	Minimum Non-Detect	0.095
Maximum Detect	82.8	Maximum Non-Detect	0.19
Variance Detects	269.4	Percent Non-Detects	56.9%
Mean Detects	4.771	SD Detects	16.41
Median Detects	0.763	CV Detects	3.44
Skewness Detects	4.853	Kurtosis Detects	23.94
Mean of Logged Detects	-0.21	SD of Logged Detects	1.593

Normal GOF Test on Detects Only

Shapiro Wilk Test Statistic	0.292	**Shapiro Wilk GOF Test**
1% Shapiro Wilk Critical Value	0.886	Detected Data Not Normal at 1% Significance Level
Lilliefors Test Statistic	0.408	**Lilliefors GOF Test**
1% Lilliefors Critical Value	0.201	Detected Data Not Normal at 1% Significance Level

Detected Data Not Normal at 1% Significance Level

Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

KM Mean	2.111	KM Standard Error of Mean	1.448
90KM SD	10.81	95% KM (BCA) UCL	4.951
95% KM (t) UCL	4.533	95% KM (Percentile Bootstrap) UCL	4.925
95% KM (z) UCL	4.493	95% KM Bootstrap t UCL	21.69
90% KM Chebyshev UCL	6.456	95% KM Chebyshev UCL	8.425
97.5% KM Chebyshev UCL	11.16	99% KM Chebyshev UCL	16.52

Gamma GOF Tests on Detected Observations Only

A-D Test Statistic	2.722	**Anderson-Darling GOF Test**
5% A-D Critical Value	0.835	Detected Data Not Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.29	**Kolmogorov-Smirnov GOF**
5% K-S Critical Value	0.188	Detected Data Not Gamma Distributed at 5% Significance Level

Detected Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics on Detected Data Only

k hat (MLE)	0.375	k star (bias corrected MLE)	0.357
Theta hat (MLE)	12.72	Theta star (bias corrected MLE)	13.38
nu hat (MLE)	18.75	nu star (bias corrected)	17.83
Mean (detects)	4.771		

Gamma ROS Statistics using Imputed Non-Detects

53	GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs											
54	GROS may not be used when kstar of detects is small such as <1.0, especially when the sample size is small (e.g., <15-20)											
55	For such situations, GROS method may yield incorrect values of UCLs and BTVs											
56	This is especially true when the sample size is small.											
57	For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates											
58					Minimum	0.01				Mean	2.062	
59					Maximum	82.8				Median	0.01	
60					SD	10.91				CV	5.291	
61					k hat (MLE)	0.212				k star (bias corrected MLE)	0.213	
62					Theta hat (MLE)	9.715				Theta star (bias corrected MLE)	9.692	
63					nu hat (MLE)	24.62				nu star (bias corrected)	24.68	
64					Adjusted Level of Significance (β)	0.0459						
65					Approximate Chi Square Value (24.68, α)	14.37				Adjusted Chi Square Value (24.68, β)	14.17	
66					95% Gamma Approximate UCL	3.543				95% Gamma Adjusted UCL	3.593	
67												
68	**Estimates of Gamma Parameters using KM Estimates**											
69					Mean (KM)	2.111				SD (KM)	10.81	
70					Variance (KM)	116.8				SE of Mean (KM)	1.448	
71					k hat (KM)	0.0381				k star (KM)	0.0477	
72					nu hat (KM)	4.424				nu star (KM)	5.529	
73					theta hat (KM)	55.34				theta star (KM)	44.29	
74					80% gamma percentile (KM)	0.241				90% gamma percentile (KM)	3.02	
75					95% gamma percentile (KM)	11.02				99% gamma percentile (KM)	46.78	
76												
77	**Gamma Kaplan-Meier (KM) Statistics**											
78					Approximate Chi Square Value (5.53, α)	1.404				Adjusted Chi Square Value (5.53, β)	1.352	
79					95% KM Approximate Gamma UCL	8.312				95% KM Adjusted Gamma UCL	8.629	
80												
81	**Lognormal GOF Test on Detected Observations Only**											
82					Shapiro Wilk Test Statistic	0.922				**Shapiro Wilk GOF Test**		
83					10% Shapiro Wilk Critical Value	0.931				Detected Data Not Lognormal at 10% Significance Level		
84					Lilliefors Test Statistic	0.136				**Lilliefors GOF Test**		
85					10% Lilliefors Critical Value	0.159				Detected Data appear Lognormal at 10% Significance Level		
86	**Detected Data appear Approximate Lognormal at 10% Significance Level**											
87												
88	**Lognormal ROS Statistics Using Imputed Non-Detects**											
89					Mean in Original Scale	2.068				Mean in Log Scale	-2.858	
90					SD in Original Scale	10.91				SD in Log Scale	2.852	
91					95% t UCL (assumes normality of ROS data)	4.463				95% Percentile Bootstrap UCL	4.844	
92					95% BCA Bootstrap UCL	6.39				95% Bootstrap t UCL	18.12	
93					95% H-UCL (Log ROS)	24.92						
94												
95	**Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution**											
96					KM Mean (logged)	-1.429				KM Geo Mean	0.24	
97					KM SD (logged)	1.475				95% Critical H Value (KM-Log)	3.094	
98					KM Standard Error of Mean (logged)	0.198				95% H-UCL (KM -Log)	1.301	
99					KM SD (logged)	1.475				95% Critical H Value (KM-Log)	3.094	
100					KM Standard Error of Mean (logged)	0.198						
101	**Note: KM UCLs may be biased low with this dataset. Other substitution method recommended**											
102												
103	**DL/2 Statistics**											
104	**DL/2 Normal**									**DL/2 Log-Transformed**		

	A	B	C	D	E	F	G	H	I	J	K	L
105					Mean in Original Scale	2.085				Mean in Log Scale		-1.8
106					SD in Original Scale	10.91				SD in Log Scale		1.742
107					95% t UCL (Assumes normality)	4.48				95% H-Stat UCL		1.669
108	**DL/2 is not a recommended method, provided for comparisons and historical reasons**											
109												
110	**Nonparametric Distribution Free UCL Statistics**											
111	**Detected Data appear Approximate Lognormal Distributed at 10% Significance Level**											
112												
113	**Suggested UCL to Use**											
114					KM H-UCL	1.301						
115												
116	**The calculated UCLs are based on assumptions that the data were collected in a random and unbiased manner.**											
117	**Please verify the data were collected from random locations.**											
118	**If the data were collected using judgmental or other non-random methods,**											
119	**then contact a statistician to correctly calculate UCLs.**											
120												
121	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
122	Recommendations are based upon data size, data distribution, and skewness using results from simulation studies.											
123	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
124												

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.2 4/27/2023 5:46:57 PM
From File	WorkSheet.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

CrVI

General Statistics

Total Number of Observations	22	Number of Distinct Observations	3
Number of Detects	2	Number of Non-Detects	20
Number of Distinct Detects	2	Number of Distinct Non-Detects	1
Minimum Detect	0.53	Minimum Non-Detect	0.2
Maximum Detect	0.58	Maximum Non-Detect	0.2
Variance Detects	0.00125	Percent Non-Detects	90.91%
Mean Detects	0.555	SD Detects	0.0354
Median Detects	0.555	CV Detects	0.0637
Skewness Detects	N/A	Kurtosis Detects	N/A
Mean of Logged Detects	-0.59	SD of Logged Detects	0.0637

Warning: Data set has only 2 Detected Values.

This is not enough to compute meaningful or reliable statistics and estimates.

Normal GOF Test on Detects Only

Not Enough Data to Perform GOF Test

Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

KM Mean	0.232	KM Standard Error of Mean	0.0309
90KM SD	0.102	95% KM (BCA) UCL	N/A
95% KM (t) UCL	0.285	95% KM (Percentile Bootstrap) UCL	N/A
95% KM (z) UCL	0.283	95% KM Bootstrap t UCL	N/A
90% KM Chebyshev UCL	0.325	95% KM Chebyshev UCL	0.367
97.5% KM Chebyshev UCL	0.425	99% KM Chebyshev UCL	0.539

Gamma GOF Tests on Detected Observations Only

Not Enough Data to Perform GOF Test

Gamma Statistics on Detected Data Only

k hat (MLE)	492.5	k star (bias corrected MLE)	N/A
Theta hat (MLE)	0.00113	Theta star (bias corrected MLE)	N/A
nu hat (MLE)	1970	nu star (bias corrected)	N/A
Mean (detects)	0.555		

Estimates of Gamma Parameters using KM Estimates

Mean (KM)	0.232	SD (KM)	0.102
Variance (KM)	0.0105	SE of Mean (KM)	0.0309
k hat (KM)	5.152	k star (KM)	4.48
nu hat (KM)	226.7	nu star (KM)	197.1

53					theta hat (KM)	0.0451					theta star (KM)	0.0519
54					80% gamma percentile (KM)	0.316					90% gamma percentile (KM)	0.379
55					95% gamma percentile (KM)	0.437					99% gamma percentile (KM)	0.56
56												
57	**Gamma Kaplan-Meier (KM) Statistics**											
58											Adjusted Level of Significance (β)	0.0386
59					Approximate Chi Square Value (197.10, α)	165.6					Adjusted Chi Square Value (197.10, β)	163.5
60					95% KM Approximate Gamma UCL	0.276					95% KM Adjusted Gamma UCL	0.28
61												
62	**Lognormal GOF Test on Detected Observations Only**											
63	**Not Enough Data to Perform GOF Test**											
64												
65	**Lognormal ROS Statistics Using Imputed Non-Detects**											
66					Mean in Original Scale	0.358					Mean in Log Scale	-1.06
67					SD in Original Scale	0.0933					SD in Log Scale	0.256
68					95% t UCL (assumes normality of ROS data)	0.392					95% Percentile Bootstrap UCL	0.39
69					95% BCA Bootstrap UCL	0.393					95% Bootstrap t UCL	0.396
70					95% H-UCL (Log ROS)	0.396						
71												
72	**Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution**											
73					KM Mean (logged)	-1.517					KM Geo Mean	0.219
74					KM SD (logged)	0.293					95% Critical H Value (KM-Log)	1.834
75					KM Standard Error of Mean (logged)	0.0885					95% H-UCL (KM -Log)	0.258
76					KM SD (logged)	0.293					95% Critical H Value (KM-Log)	1.834
77					KM Standard Error of Mean (logged)	0.0885						
78												
79	**DL/2 Statistics**											
80	**DL/2 Normal**						**DL/2 Log-Transformed**					
81					Mean in Original Scale	0.141					Mean in Log Scale	-2.147
82					SD in Original Scale	0.134					SD in Log Scale	0.504
83					95% t UCL (Assumes normality)	0.191					95% H-Stat UCL	0.165
84	**DL/2 is not a recommended method, provided for comparisons and historical reasons**											
85												
86	**Nonparametric Distribution Free UCL Statistics**											
87	**Data do not follow a Discernible Distribution**											
88												
89	**Suggested UCL to Use**											
90					95% KM (t) UCL	0.285						
91												
92	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
93	Recommendations are based upon data size, data distribution, and skewness using results from simulation studies.											
94	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
95												

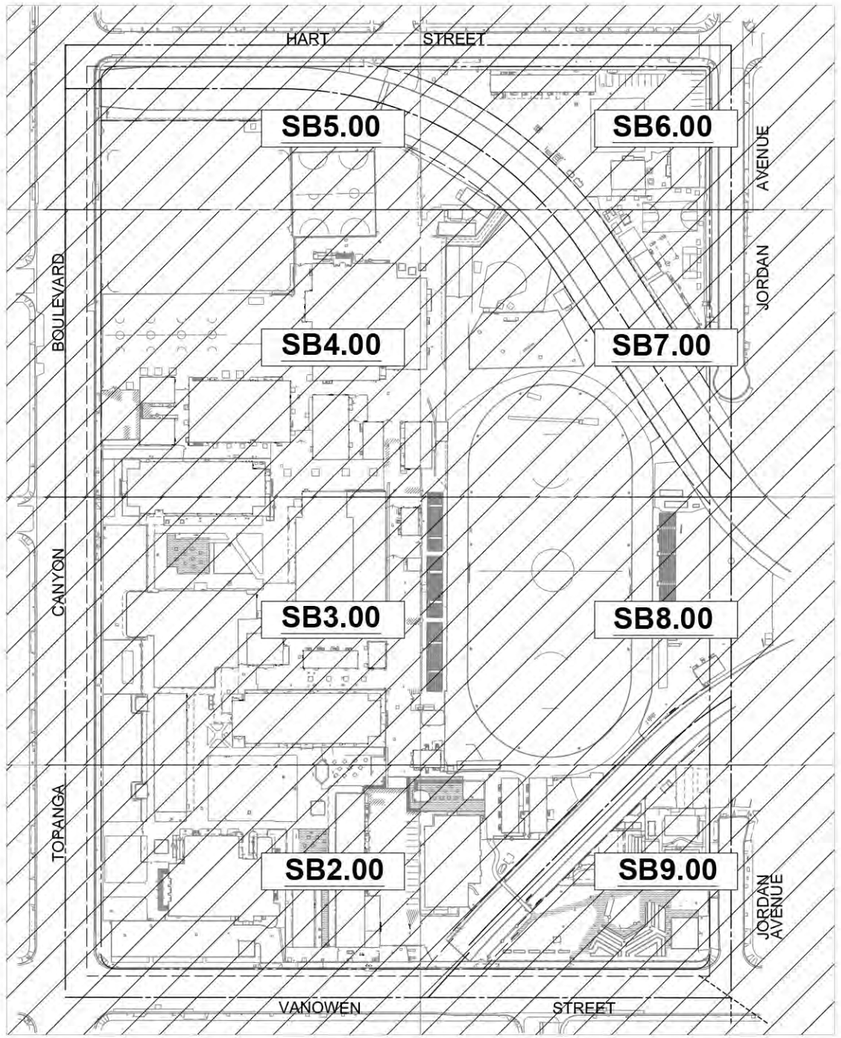
APPENDIX J

SURVEYED LOCATIONS
LAUSD - CANOGA PARK SENIOR HIGH SCHOOL

SHEET	SOIL BORING NUMBER	EASTING	NORTHING	ELEVATION	DESCRIPTION
SB9.00	SOIL BORING-1	5279.158056	5635.493523	796.83	SB-39-N10=NG
SB9.00	SOIL BORING-2	5274.469784	5635.386767	796.88	SB-39-N5=NG
SB9.00	SOIL BORING-3	5269.633138	5635.457129	796.96	SB-39-NG
SB9.00	SOIL BORING-4	5269.055172	5640.71125	797.13	SB-39-E5=AC
SB9.00	SOIL BORING-5	5263.902611	5635.493809	796.89	SB-39-S5=NG
SB8.00	SOIL BORING-6	5551.555108	5881.430152	795.97	SB-51-SW10=AC
SB8.00	SOIL BORING-7	5562.250179	5881.343584	795.93	SB-51-W5=AC
SB8.00	SOIL BORING-8	5567.381012	5886.823059	795.82	SB-51-N5=AC
SB8.00	SOIL BORING-9	5562.131904	5886.708068	795.81	SB-51=AC
SB8.00	SOIL BORING-10	5556.714844	5886.541481	795.83	SB-51-S5=AC
SB8.00	SOIL BORING-11	5551.756881	5886.545756	795.85	SB-51-S10=AC
SB8.00	SOIL BORING-12	5545.888281	5886.217396	795.93	SB-51-S15=AC
SB8.00	SOIL BORING-13	5551.553247	5891.335875	795.77	SB-51-SE10=AC
SB8.00	SOIL BORING-14	5562.159027	5891.965929	795.68	SB-51-E5=AC
SB9.00	SOIL BORING-15	5266.067318	5603.678985	797.04	SP-38-N10=AC
SB9.00	SOIL BORING-16	5260.132904	5607.057843	797.13	SP-38-N5=AC
SB9.00	SOIL BORING-17	5255.070561	5607.161777	797.16	SB-38=AC
SB9.00	SOIL BORING-18	5255.084087	5601.689405	797.13	SB-38-W5=AC
SB9.00	SOIL BORING-19	5255.135586	5596.459936	797.25	SB-38-W10=AC
SB9.00	SOIL BORING-20	5245.49973	5603.642168	797.35	SB-38-S10=AC
SB9.00	SOIL BORING-21	5238.999265	5588.649354	797.40	SB-38-SW25=NG
SB8.00	SOIL BORING-22	5591.947346	5556.186796	796.18	SB-44-W5=DG
SB8.00	SOIL BORING-23	5615.741293	5561.631197	795.86	SB-44-N20=DG
SB8.00	SOIL BORING-24	5601.54237	5561.255297	796.09	SB-44-N10=DG
SB8.00	SOIL BORING-25	5595.820702	5561.24979	796.05	SB-44-N5=DG
SB8.00	SOIL BORING-26	5591.5137	5561.341955	796.09	SB-44=DG
SB8.00	SOIL BORING-27	5580.015712	5561.068101	796.12	SB-44-S10=DG
SB8.00	SOIL BORING-28	5568.983502	5560.966771	796.10	SB-44-S20=DG
SB3.00	SOIL BORING-29	5328.745631	5481.589695	797.79	SB-34-N10=AC
SB3.00	SOIL BORING-30	5319.178286	5481.728434	797.72	SB-34=AC
SB2.00	SOIL BORING-31	5310.696004	5481.825909	797.76	SB-34-S10=AC
SB3.00	SOIL BORING-32	5318.90941	5477.639089	797.77	UC=AC
SB3.00	SOIL BORING-33	5448.263461	5345.847389	798.25	SB-28-W10=AC
SB3.00	SOIL BORING-34	5447.872279	5360.505584	798.20	SB-28=AC
SB3.00	SOIL BORING-35	5448.099284	5371.214255	798.26	SB-28-E10=AC
SB3.00	SOIL BORING-36	5526.582012	5429.262971	797.61	SB-26-E25=AC
SB3.00	SOIL BORING-37	5526.426027	5417.004634	797.64	SB-26-E15=AC
SB3.00	SOIL BORING-38	5526.470246	5410.897013	797.62	SB-26-E10=AC
SB3.00	SOIL BORING-39	5526.652216	5405.975782	797.65	SB-26-E5=AC
SB3.00	SOIL BORING-40	5526.405896	5400.796837	797.69	SB-26=AC
SB3.00	SOIL BORING-41	5526.404329	5395.693612	797.77	SB-26-W5=AC

SURVEYED LOCATIONS
LAUSD - CANOGA PARK SENIOR HIGH SCHOOL

SHEET	SOIL BORING NUMBER	EASTING	NORTHING	ELEVATION	DESCRIPTION
SB3.00	SOIL BORING-42	5526.32642	5391.213132	797.81	SB-26-W10=AC
SB3.00	SOIL BORING-43	5526.469776	5385.609178	797.81	SB-26-W15=AC
SB3.00	SOIL BORING-44	5521.279649	5400.823583	797.68	SB-26-S5=AC
SB3.00	SOIL BORING-45	5516.672301	5391.153962	797.75	SB-26-SW10=AC
SB3.00	SOIL BORING-46	5516.846942	5400.730687	797.64	SB-26-S10=AC
SB3.00	SOIL BORING-47	5516.395857	5411.210628	797.52	SB-26-SE10=AC
SB3.00	SOIL BORING-48	5530.529367	5398.620686	797.74	SB-26-NW5=AC
SB8.00	SOIL BORING-49	5628.817215	5492.563863	797.10	SB-20=AC
SB8.00	SOIL BORING-50	5623.095803	5491.062887	797.15	SB-20-S5=AC
SB4.00	SOIL BORING-51	5758.850716	5091.498379	797.85	SB-7-SW25=AC
SB4.00	SOIL BORING-52	5758.791734	5097.840149	797.87	SB-7-SW20=AC
SB4.00	SOIL BORING-53	5758.900024	5102.092568	797.90	SB-7-S20=AC
SB4.00	SOIL BORING-54	5795.453963	5101.889514	797.82	SB-7-N10=AC
SB4.00	SOIL BORING-55	5789.992705	5101.815331	797.89	SB-7-N5=AC
SB4.00	SOIL BORING-56	5784.856287	5102.038745	797.83	SB-7=AC
SB4.00	SOIL BORING-57	5779.63732	5102.059612	797.83	SB-7-S5=AC
SB4.00	SOIL BORING-58	5774.577608	5101.974859	797.80	SB-7-S10=AC
SB4.00	SOIL BORING-59	5784.41802	5096.855942	797.82	SB-7-W5=AC
SB4.00	SOIL BORING-60	5784.683349	5091.723183	797.77	SB-7-W10=AC
SB4.00	SOIL BORING-61	5860.493989	5145.863164	797.46	SB-5-E20=NG
SB4.00	SOIL BORING-62	5859.983031	5133.989866	797.36	SB-5-E5=NG
SB4.00	SOIL BORING-63	5859.625146	5129.428832	797.41	SB-5=NG
SB4.00	SOIL BORING-64	5859.493946	5125.116245	797.36	SB-5-W5=NG
SB4.00	SOIL BORING-65	5864.439334	5114.432056	797.39	SB-5-W15=NG
SB4.00	SOIL BORING-66	5863.835985	5125.224556	797.38	SB-5-NW5=NG
SB4.00	SOIL BORING-67	5864.978654	5134.358864	797.43	SB-5-NE5=NG
SB6.00	SOIL BORING-68	6123.687757	5558.352642	796.21	SB-1-NE5=NG
SB6.00	SOIL BORING-69	6120.79427	5555.469876	796.25	SB-1=NG
SB6.00	SOIL BORING-70	6122.633264	5551.286761	796.25	SB-1-NW5=NG
SB6.00	SOIL BORING-71	6125.482887	5547.150973	796.11	SB-1-NW10=NG
SB6.00	SOIL BORING-72	6117.743402	5543.606751	796.35	SB-1-W10=NG
SB6.00	SOIL BORING-73	6117.427146	5548.584362	796.19	SB-1-SW5=NG
SB6.00	SOIL BORING-74	6112.897313	5545.798966	796.14	SB-1-SW10=NG
SB6.00	SOIL BORING-75	6108.438266	5542.693682	796.20	SB-1-SW20=NG
SB7.00	SOIL BORING-76	6085.508708	5571.411795	796.25	SB-3-NW5=AC
SB7.00	SOIL BORING-77	6082.846663	5576.582358	796.16	SB-3=NG
SB7.00	SOIL BORING-78	6077.777546	5574.820731	796.05	SB-3-SW5=NG
SB7.00	SOIL BORING-79	6073.810872	5573.512196	795.97	SB-3-SW10=NG
SB7.00	SOIL BORING-80	6069.636505	5581.556707	795.80	SB-3-S15=NG
SB7.00	SOIL BORING-81	6073.988784	5579.953643	795.89	SB-3-S10=NG
SB7.00	SOIL BORING-82	6075.896475	5584.194087	795.87	SB-3-SE10=NG
SB7.00	SOIL BORING-83	6078.744003	5579.742509	795.97	SB-3-SE5=NG



KEYMAP:
SCALE: 1" = 100'



VICINITY MAP
NOT TO SCALE

BASIS OF BEARING

THE HORIZONTAL BASIS OF BEARING FOR THIS TOPOGRAPHIC MAP IS THE CENTERLINE OF TOPANGA CANYON BOULEVARD (FORMERLY TOPANGA CANYON AVENUE) BEING "NORTH" AS SHOWN ON TRACT NO. 9267, MB. 136/98-99.

BENCHMARK

CITY OF LOS ANGELES BENCHMARK NO. 06-06688
DESCRIPTION: WIRE SPK IN N CURB VANOWEN ST; 0.4FT E OF C CURB RETURN E OF TOPANGA CANYON BLVD
ELEVATION = 799.284' (NAVD 1988) YEAR 2000

LAUSD BENCHMARK:
CHIS "X", N ARCADE WEST SIDE OF CAFETERIA BUILDING #31' PLUS OR MINUS E/O S AND E LINES PROD.
BLDG. # "E" ELEVATION = 796.02

ESTABLISHED BENCHMARK:
N ARCADE WEST SIDE OF CAFETERIA
ELEVATION = 798.75' IS BASED ON CITY OF LOS ANGELES BENCHMARK.

CONVERSION TO LAUSD BENCH MARK
LAUSD BM = 798.75 - 2.73 = 796.02

TOPOGRAPHIC SURVEY NOTES:

1. THIS MAP REPRESENTS A TOPOGRAPHIC SURVEY OF VISIBLE FIELD CONDITIONS AT THE TIME OF THIS SURVEY.
2. AS-BUILTS PROVIDED BY LAUSD ARE FOR REFERENCE ONLY.
3. NO ADDITIONAL SURVEY AND GPR THAT WAS RECENTLY REQUESTED IN THIS DRAWING.

LEGEND

- CEMENT CONCRETE
- CENTERLINE
- EASEMENT
- PROPERTY LINE
- CHAIN LINK FENCE
- EXISTING CONTOUR LINE (150.00)
- FLOWLINE
- RIDGE, GRADE BREAK
- WROUGHT IRON FENCE
- PAINT STRIPING
- TREE DRIPLINE
- OVERHEAD: ROOF, STRUCTURE
- TRUNCATED DOME
- LAUSD AS-BUILT: COMMUNICATION
- LAUSD AS-BUILT: ELECTRIC
- LAUSD AS-BUILT: FIRE ALARM
- LAUSD AS-BUILT: GAS
- LAUSD AS-BUILT: IRRIGATION
- LAUSD AS-BUILT: SEWER
- LAUSD AS-BUILT: STORM DRAIN
- LAUSD AS-BUILT: WATER

SYMBOLS

- BOLLARD
- GAS VALVE
- FIRE HYDRANT
- LIGHT POST
- LIGHT STANDARD
- POWER POLE
- SEWER MANHOLE
- STORM DRAIN MANHOLE
- STREET SIGN, SIGN POST
- SURVEY WELL MONUMENT
- TRAFFIC SIGNAL
- TREE
- VALVE, DOWNSPOUT, PIPE, CONDUIT
- WATER VALVE
- YARD BOX

ABBREVIATIONS

ACU	AIR CONDITIONING UNIT
AC	ASPHALT CONCRETE
BF	BACKFLOW
BFP	BACKFLOW PREVENTER
BW	BACK OF WALK
BBP	BASKETBALL POST
BM	BENCHMARK
BOL	BOLLARD
BOT	BOTTOM
BBS	BOTTOM OF BOTTOM STEP
BRAMP/BR	BOTTOM OF RAMP
BX	BOTTOM OF "X"
BLDR	BOULDER
BRK	BRICK
BLDG	BUILDING
CIP	CAST IRON PIPE
CB	CATCH BASIN
CC	CEMENT CONCRETE
CL	CENTERLINE
CLF	CHAIN LINK FENCE
CO	CLEAN-OUT
COL	COLUMN
CMU	CONCRETE MASONRY UNIT
CNDT	CONDUIT
DG	DECOMPOSED GRANITE
DS	DOWNSPOUT
DF	DRINKING FOUNTAIN
DWY	DRIVEWAY
ECNDT	ELECTRICAL CONDUIT
EG	EDGE OF GUTTER
ELEC	ELECTRIC
ECNDT	ELECTRIC CONDUIT
EMH	ELECTRIC MANHOLE
E-PNL	ELECTRIC PANEL
EPB	ELECTRIC PULL BOX
EV	ELECTRIC VAULT
EYB	ELECTRIC YARD BOX
ENC	ENCLOSURE
FF	FINISH FLOOR
FA	FIRE ALARM
FDC	FIRE DEP. CONNECTION
FIRE EX	FIRE EXTINGUISHER
FH	FIRE HYDRANT
FW	FIRE WATER
FP	FLAGPOLE
FD	FLOOR DRAIN
FL	FLOW LINE
FTG	FOOTING
HB	HOSE BIB
IRR	IRRIGATION
GM	GAS METER
GV	GAS VALVE
GB	GRADE BREAK
GC	GRADE CHANGE
GVL	GRAVEL
GND	GROUND
GBP	GROUND PULL BOX
GA	GUY ANCHOR
ICV	IRRIGATION CONTROL VALVE
INV	INVERT
JB	JUNCTION BOX
LNDG	LANDING
LP	LIGHT POST
LS	LIGHT STANDARD
MH	MANHOLE
MISC/MSC	MISCELLANEOUS/METAL STORAGE CONTAINER
MS	MOW STRIP
MLCH	MULCH
MTT	MULTI-TRUNK TREE
NG	NATURAL GROUND, DIRT
OH	OVERHEAD
PNL	PANEL
PVR	PAVERS
PA	PLANTER AREA
POC	POINT OF CONNECTION
PIV	POST INDICATOR VALVE
POW	POWER
PP	POWER POLE
PV	POWER VAULT
PB	PULLBOX
PVC	PVC PIPE
RCV	REMOTE CONTROL VALVE
R/W	RIGHT-OF-WAY
SCPR	SCRAPPER
SD	STORM DRAIN
SDMH	STORM DRAIN MANHOLE
SDPB	STORM DRAIN PULL BOX
SIG	SIGNAL
SL	STREET LIGHT
SMH	SEWER MANHOLE
SPB	SEWER PULL BOX
SWR	SEWER
SLHV	STREET LIGHTING HIGH VOLTAGE
SLP	STREET LIGHT POST
SLPB	STREET LIGHTING PULL BOX
SS	STREET SIGN
SV	SIGNAL VAULT
TEL	TELEPHONE
TV	TELEVISION
TH	THRESHOLD
TB	TOP OF BENCH
TBS	TOP OF BOTTOM STEP
TAD	TOP OF AREA DRAIN
TC	TOP OF CURB
TCB	TOP OF CATCH BASIN
TFD	TOP OF FLOOR DRAIN
TG	TOP OF GRATE
TMH	TOP OG MANHOLE
TRAMP/TR	TOP OF RAMP
TSLPB	TOP SLOPE
TTS	TOP OF TOP STEP
TW	TOP OF WALL
TX	TOP OF "X"
TSP	TRAFFIC SIGN POST
TS	TRAFFIC SIGNAL
TSV	TRAFFIC SIGNAL VAULT
UG	UNDERGROUND
UV	UNKNOWN VAULT
VLT	VAULT
VCP	VITRIFIED CLAY PIPE
VBP	VOLLEYBALL POST
WTR	WATER
WM	WATER METER
WPB	WATER PULL BOX
WV	WATER VALVE
WH	WEEPHOLE
WD	WOOD
WSC	WOOD STORAGE CONTAINER
WIF	WROUGHT IRON FENCE
XFOR	TRANSFORMER
YB	YARD BOX
YBE	YARD BOX - ELECTRIC
YBG	YARD BOX - GAS
YBS	YARD BOX - SEWER
YBSD	YARD BOX - STORM DRAIN
YBU	YARD BOX - UNKNOWN
YBW	YARD BOX - WATER
DWPWS	DEPARTMENT OF WATER AND POWER WATER SYSTEMS
SCG	SOTHERN CALIFORNIA GAS

LOS ANGELES UNIFIED SCHOOL DISTRICT
DESIGN AND A/E TECHNICAL SUPPORT
FACILITIES SERVICES DIVISION
333 S. BEAUDRY AVENUE, 23RD FLOOR
LOS ANGELES, CALIFORNIA 90017

PROJECT TITLE AND SCHOOL LOCATION

SOIL BORING SURVEY

CANOGA PARK HIGH SCHOOL

6850 CA-27,
CANOGA PARK, CA 91303

COMMISSIONED ARCHITECT

CONSULTANT

Uniplan Engineering Inc.

Civil Engineering Transportation & Traffic Engineering
Stormwater Management Land Planning
Construction Management & Inspection Surveying

STAMPS/SEALS

REGISTERED PROFESSIONAL ENGINEER — ANDREW D. BRILLANTES P.E. — 31488 — Exp. 12-31-24 — CIVIL — STATE OF CALIFORNIA

DIVISION OF THE STATE ARCHITECT

SHEET TITLE:

SOIL BORING SURVEY

PROJECT NO.: —	PROJECT ARCH: —
DRAWN: MT	CHECKED: A.P

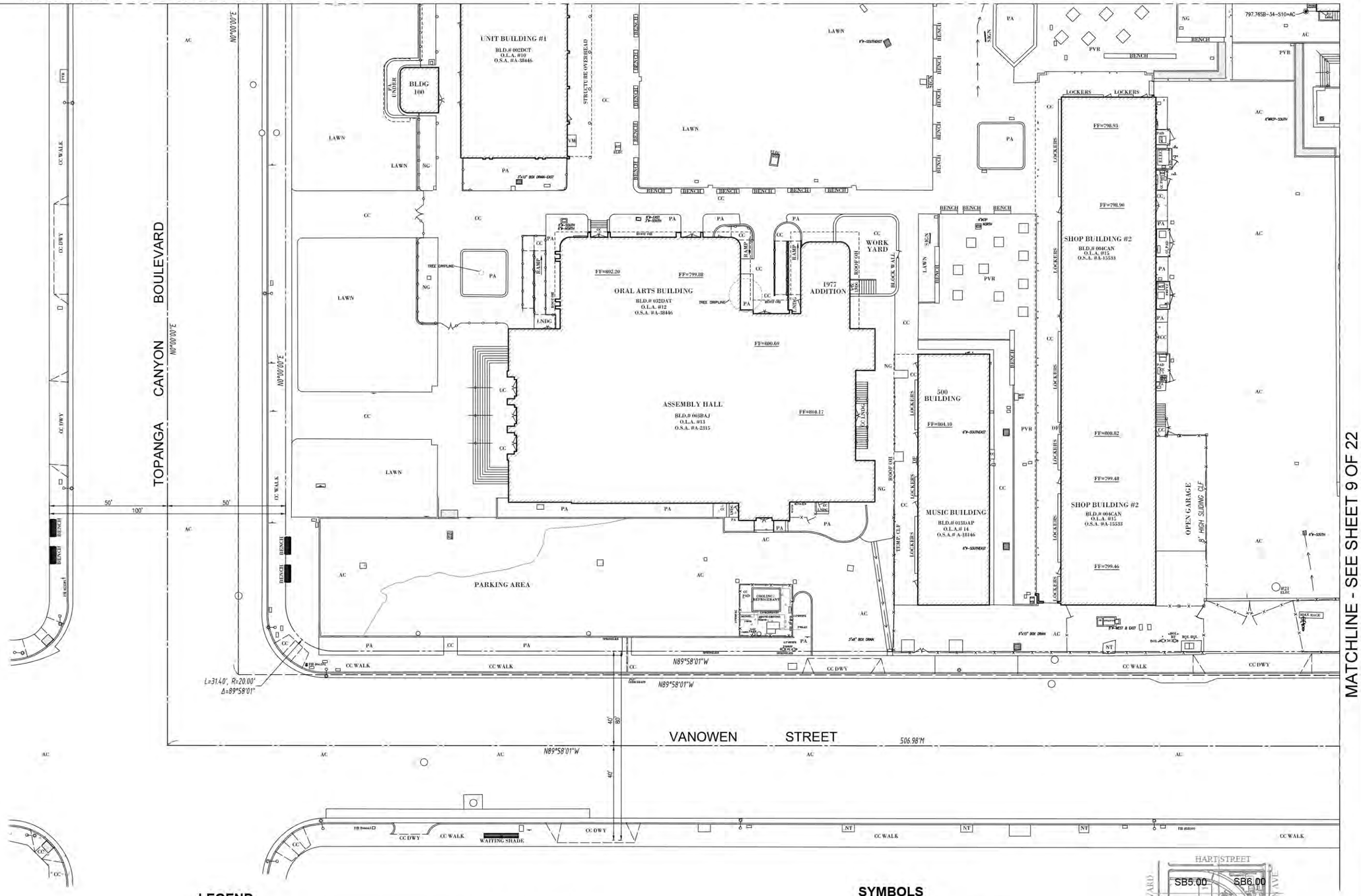
SHEET NUMBER

SB1.00

DATE: 07/20/23	SHEET: 1 OF: 9

"JANUARY 2007 VERSION"

MATCHLINE - SEE SHEET 3 OF 22



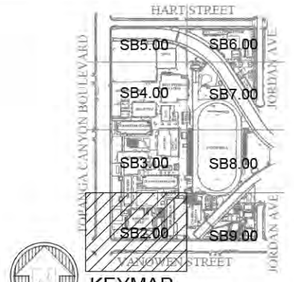
LEGEND

- CEMENT CONCRETE
- CENTERLINE
- EASEMENT
- PROPERTY LINE
- CHAIN LINK FENCE
- EXISTING CONTOUR LINE (150.00)
- FLOWLINE
- RIDGE, GRADE BREAK
- WROUGHT IRON FENCE
- PAINT STRIPING
- TREE DRIPLINE
- OVERHEAD: ROOF, STRUCTURE
- TRUNCATED DOME

- LAUSD AS-BUILT: COMMUNICATION
- LAUSD AS-BUILT: ELECTRIC
- LAUSD AS-BUILT: FIRE ALARM
- LAUSD AS-BUILT: GAS
- LAUSD AS-BUILT: IRRIGATION
- LAUSD AS-BUILT: SEWER
- LAUSD AS-BUILT: STORM DRAIN
- LAUSD AS-BUILT: WATER

SYMBOLS

- GAS VALVE
- FIRE HYDRANT
- LIGHT POST
- LIGHT STANDARD
- POWER POLE
- SEWER MANHOLE
- STORM DRAIN MANHOLE
- STREET SIGN, SIGN POST
- SURVEY WELL MONUMENT
- TRAFFIC SIGNAL
- TREE
- VALVE, DOWNSPOUT, PIPE, CONDUIT
- WATER VALVE
- YARD BOX



KEYMAP
SCALE: NOT TO SCALE

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SCALE: 1" = 20'

MATCHLINE - SEE SHEET 9 OF 22

LOS ANGELES UNIFIED SCHOOL DISTRICT
BOARD OF EDUCATION

LOS ANGELES UNIFIED SCHOOL DISTRICT
DESIGN AND A/E TECHNICAL SUPPORT
FACILITIES SERVICES DIVISION
333 S. BEAUDRY AVENUE, 23RD FLOOR
LOS ANGELES, CALIFORNIA 90017

PROJECT TITLE AND SCHOOL LOCATION

SOIL BORING SURVEY

CANOGA PARK HIGH SCHOOL
6850 CA-27,
CANOGA PARK, CA 91303

COMMISSIONED ARCHITECT

CONSULTANT

Uniplan engineering inc.
Civil Engineering Transportation & Traffic Engineering
Stormwater Management Land Planning
Construction Management & Inspection Surveying

STAMPS/SEALS

REGISTERED PROFESSIONAL ENGINEER
ASHRED G. PARSAKHOO, P.E.
31488
12-31-24
CIVIL
STATE OF CALIFORNIA

DIVISION OF THE STATE ARCHITECT

SHEET TITLE:

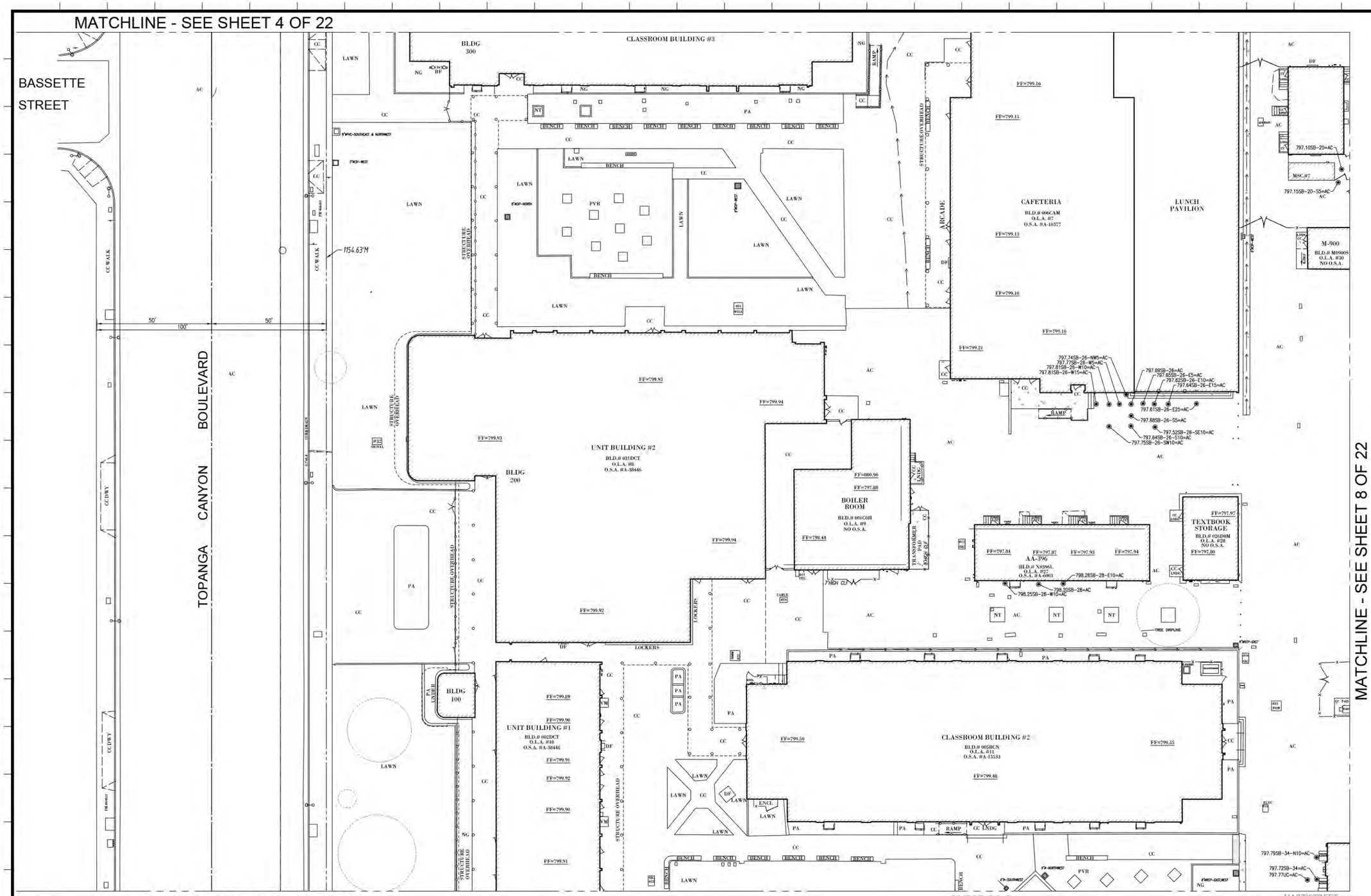
SOIL BORING SURVEY

PROJECT NO.: —	PROJECT ARCH: —
DRAWN: MT	CHECKED: A.P

SHEET NUMBER
SB2.00

DATE: 07/20/23 SHEET: 2 OF: 9

'JANUARY 2007 VERSION'



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CHAIN LINK FENCE
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OVERHEAD: ROOF, STRUCTURE
TRUNCATED DOME

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LAUSD AS-BUILT: WATER

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SYMBOLS

BOLLARD
GAS VALVE
FIRE HYDRANT
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STREET SIGN, SIGN POST
TRAFFIC SIGNAL
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VALVE, DOWNSPOUT, PIPE, CONDUIT
WATER VALVE
YARD BOX

KEYMAP
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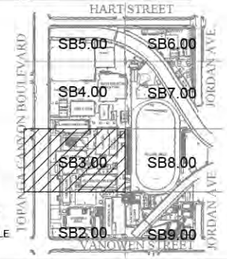

LOS ANGELES UNIFIED SCHOOL DISTRICT
DESIGN AND A/E TECHNICAL SUPPORT FACILITIES SERVICES DIVISION
333 S. BEAUDRY AVENUE, 23RD FLOOR
LOS ANGELES, CALIFORNIA 90017

PROJECT TITLE AND SCHOOL LOCATION

SOIL BORING SURVEY

CANOGA PARK HIGH SCHOOL
6850 CA-27,
CANOGA PARK, CA 91303

COMMISSIONED ARCHITECT

CONSULTANT

Uniplan Engineering Inc.
Civil Engineering Transportation & Traffic Engineering
Stormwater Management Land Planning
Construction Management & Inspection Surveying

STAMPS/SEALS

REGISTERED PROFESSIONAL ENGINEER
ALFRED D. BRILLANES, P.E.
31488
Exp. 12-31-24
CIVIL
STATE OF CALIFORNIA

DIVISION OF THE STATE ARCHITECT

SHEET TITLE:

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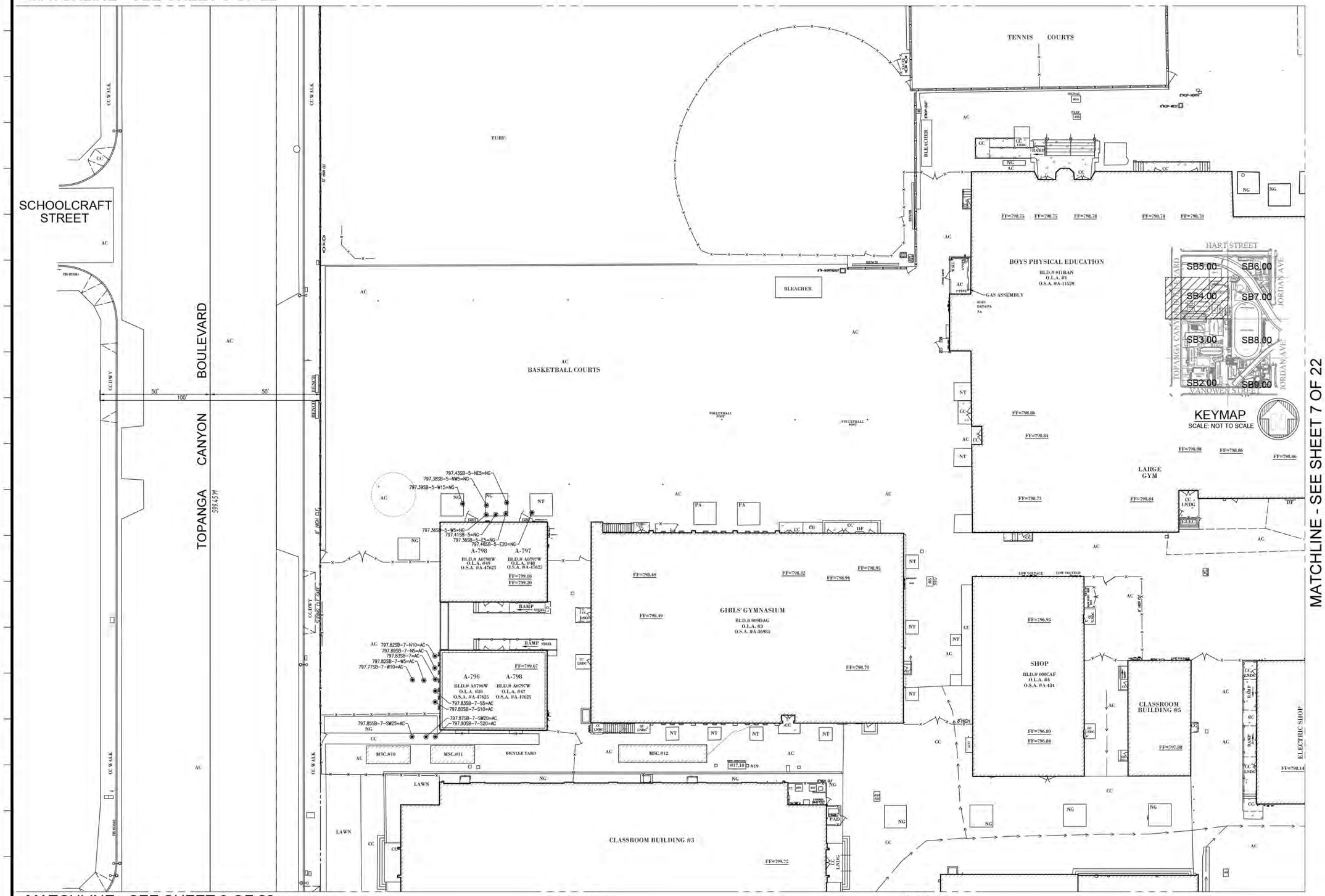
DRAWN: MT	CHECKED: A.P

SHEET NUMBER

SB3.00

DATE: 07/20/23 SHEET: 3 OF: 9

"JANUARY 2007 VERSION"



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- YARD BOX

LOS ANGELES UNIFIED SCHOOL DISTRICT
DESIGN AND A/E
TECHNICAL SUPPORT
FACILITIES SERVICES DIVISION
333 S. BEAUDRY AVENUE, 23RD FLOOR
LOS ANGELES, CALIFORNIA 90017

PROJECT TITLE AND SCHOOL LOCATION

SOIL BORING SURVEY

CANOGA PARK HIGH SCHOOL

6850 CA-27,
CANOGA PARK, CA 91303

COMMISSIONED ARCHITECT

CONSULTANT

Uniplan Engineering Inc.

Civil Engineering Transportation & Traffic Engineering
Stormwater Management Land Planning
Construction Management & Inspection Surveying

STAMPS/SEALS

REGISTERED PROFESSIONAL ENGINEER
ALFRED D. BRILLANES, P.E.
31488
Exp. 12-31-24
CIVIL
STATE OF CALIFORNIA

DIVISION OF THE STATE ARCHITECT

SHEET TITLE:

SOIL BORING SURVEY

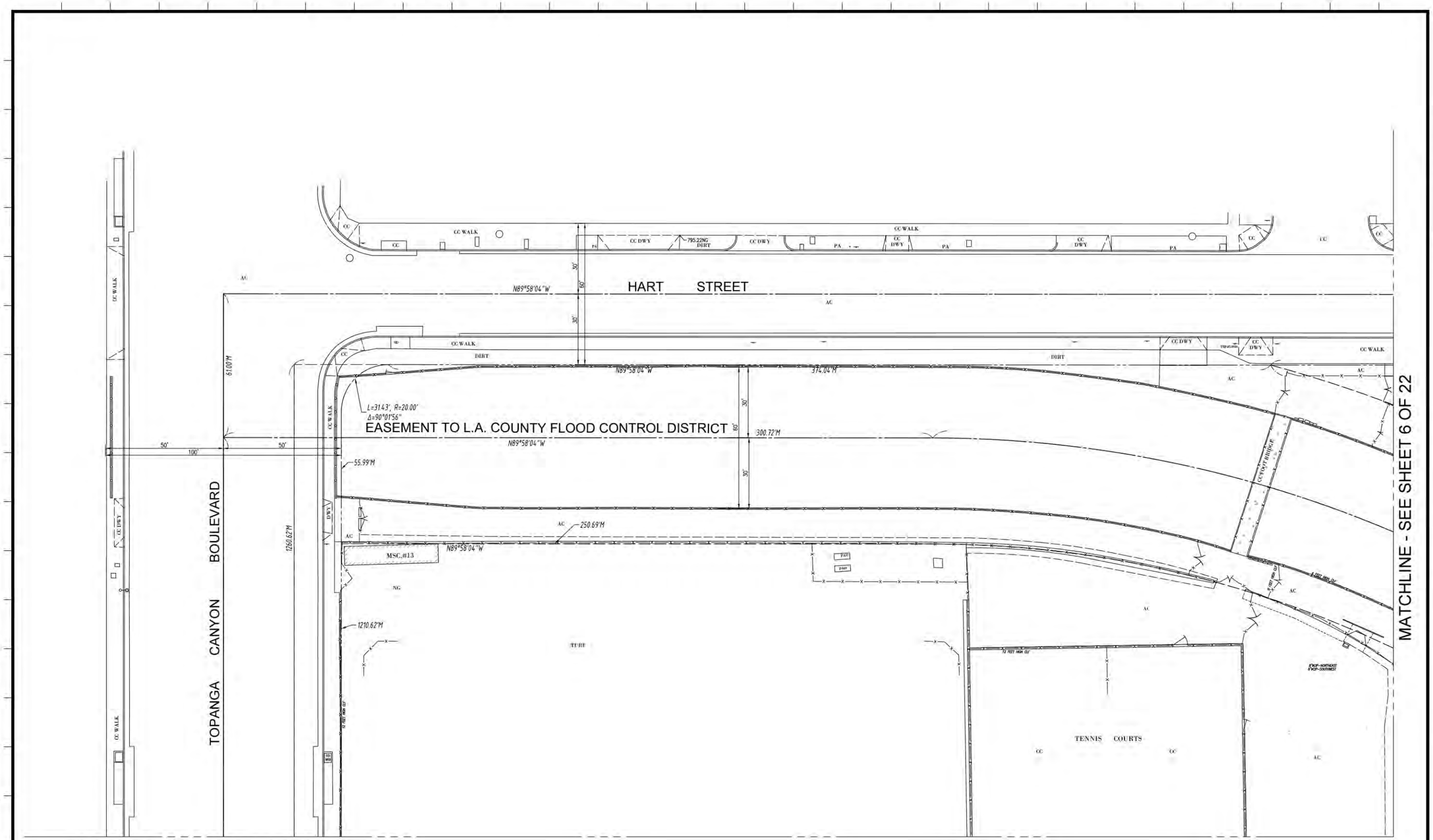
PROJECT NO.: –	PROJECT ARCH: –
DRAWN: MT	CHECKED: A.P

SHEET NUMBER

SB4.00

DATE: 07/20/23 SHEET: 4 OF: 9

"JANUARY 2007 VERSION"



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SCALE: 1" : 20'

LEGEND

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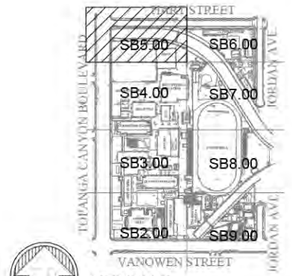

KEYMAP

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LOS ANGELES UNIFIED SCHOOL DISTRICT
DESIGN AND A/E TECHNICAL SUPPORT
FACILITIES SERVICES DIVISION
333 S. BEAUDRY AVENUE, 23RD FLOOR
LOS ANGELES, CALIFORNIA 90017

PROJECT TITLE AND SCHOOL LOCATION

SOIL BORING SURVEY

CANOGA PARK HIGH SCHOOL
6850 CA-27,
CANOGA PARK, CA 91303

COMMISSIONED ARCHITECT

CONSULTANT

Uniplan Engineering Inc.
Civil Engineering Transportation & Traffic Engineering
Stormwater Management Land Planning
Construction Management & Inspection Surveying

STAMPS/SEALS

REGISTERED PROFESSIONAL ENGINEER ALFREDO C. BRILLANTES, P.E. 31488 Exp. 12-31-24 CIVIL STATE OF CALIFORNIA

DIVISION OF THE STATE ARCHITECT

SHEET TITLE:

SOIL BORING SURVEY

PROJECT NO.: —	PROJECT ARCH: —
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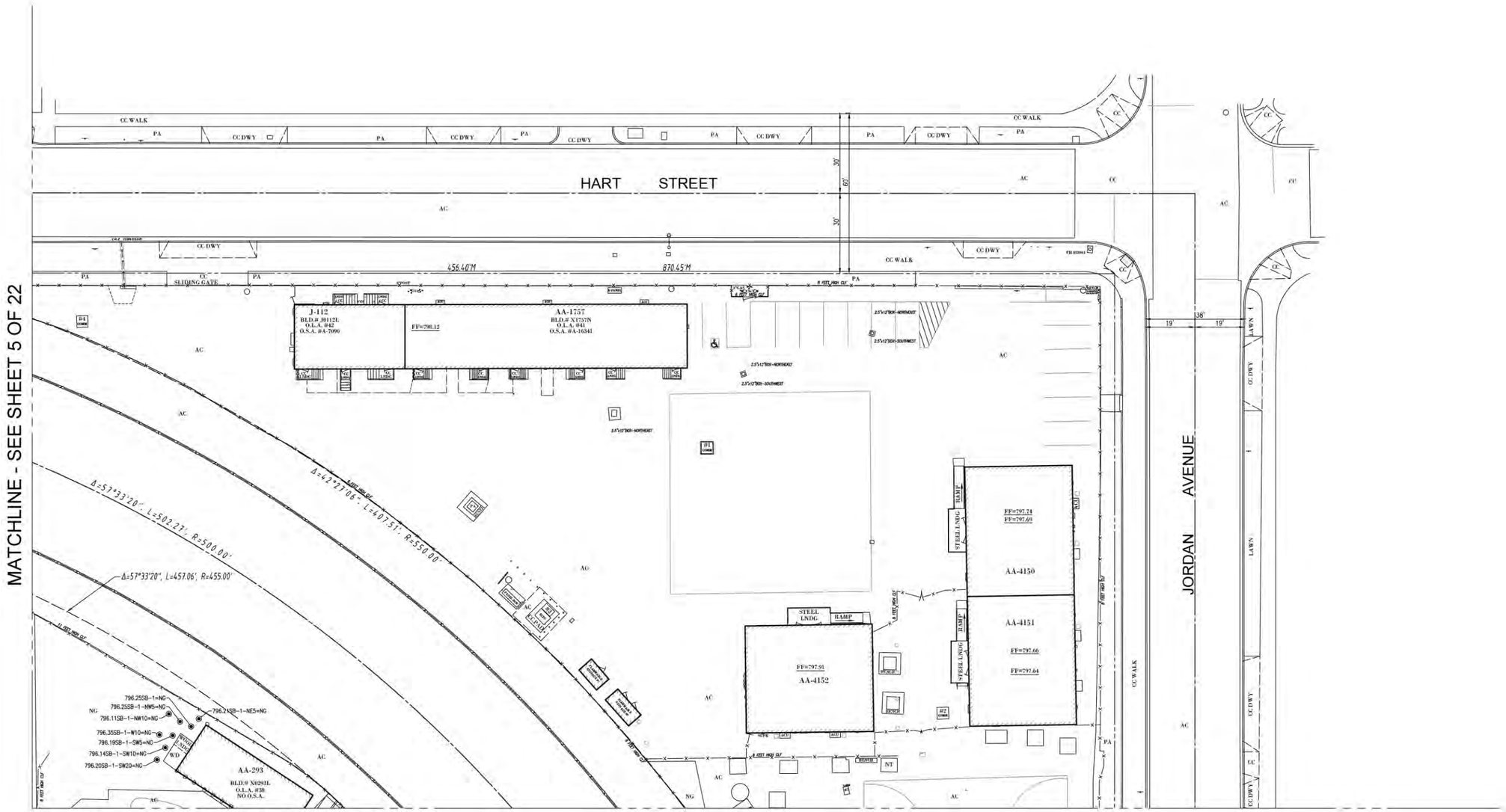
SHEET NUMBER

SB5.00

DATE: 07/20/23 SHEET: 5 OF: 9

"JANUARY 2007 VERSION"



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SURVEY WELL MONUMENT
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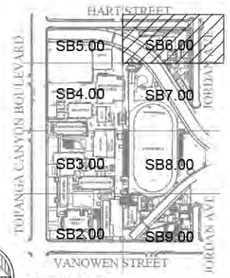

KEYMAP
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LOS ANGELES UNIFIED SCHOOL DISTRICT
DESIGN AND A/E TECHNICAL SUPPORT
FACILITIES SERVICES DIVISION
333 S. BEAUDRY AVENUE, 23RD FLOOR
LOS ANGELES, CALIFORNIA 90017

PROJECT TITLE AND SCHOOL LOCATION

SOIL BORING SURVEY

CANOGA PARK HIGH SCHOOL
6850 CA-27,
CANOGA PARK, CA 91303

COMMISSIONED ARCHITECT

CONSULTANT

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STAMPS/SEALS

REGISTERED PROFESSIONAL ENGINEER
ALFRED O. BRILLANES, P.E.
31488
Exp. 12-31-24
CIVIL
STATE OF CALIFORNIA

DIVISION OF THE STATE ARCHITECT

SHEET TITLE:

SOIL BORING SURVEY

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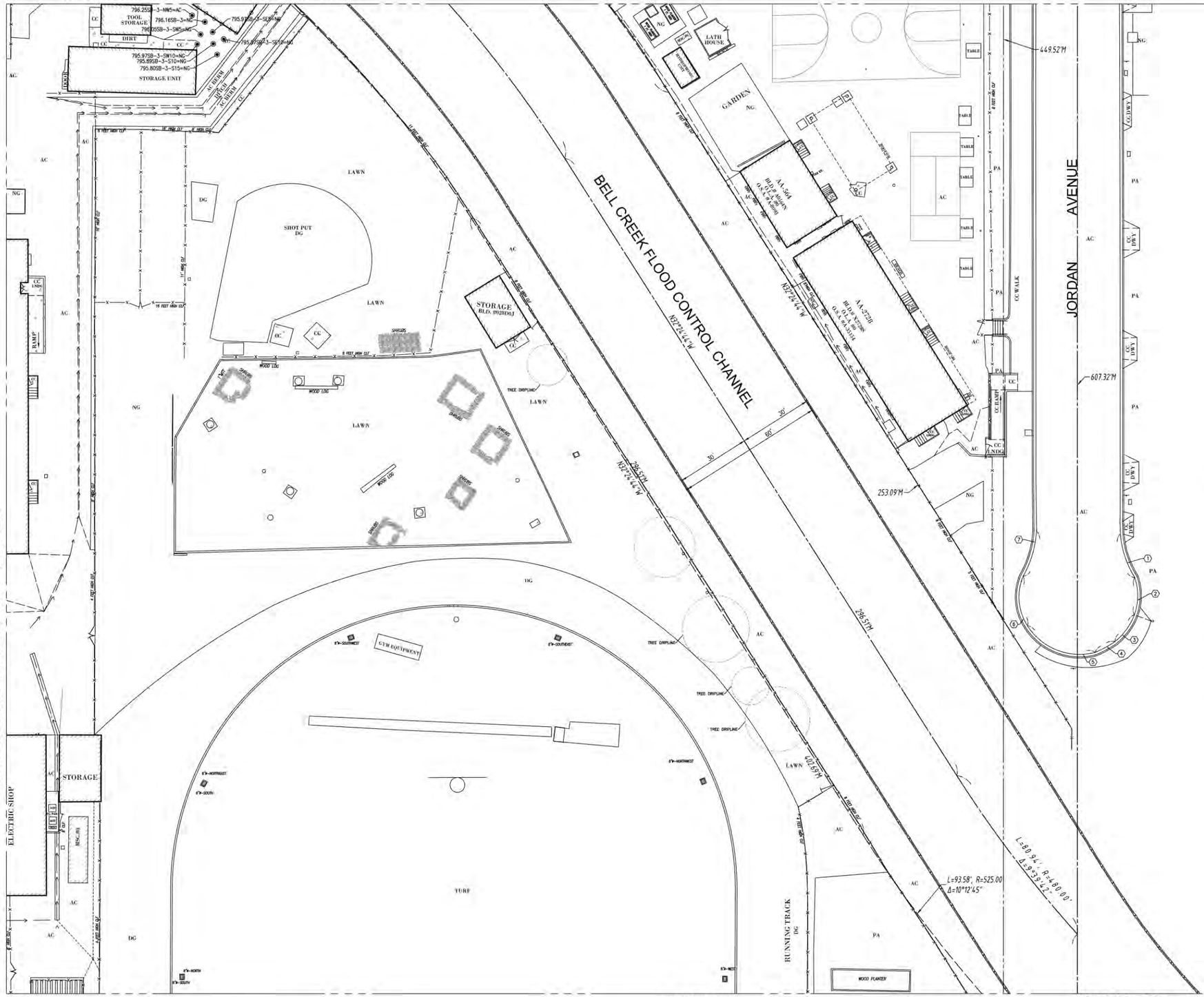
SHEET NUMBER	
SB6.00	
DATE: 07/20/23	SHEET: 6 OF: 9

"JANUARY 2007 VERSION"

MATCHLINE - SEE SHEET 6 OF 22

MATCHLINE - SEE SHEET 4 OF 22

MATCHLINE - SEE SHEET 8 OF 22



CURVE DATA TABLE

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2	38°39'32"	22.76'	15.36'	7.98	CL
3	30°09'06"	13.57'	25.78'	3.66'	CL
4	12°26'49"	41.98'	9.12'	4.58'	CL
5	72°09'16"	25.08'	31.58'	18.28'	CL
6	55°24'22"	21.64'	20.93'	11.36'	CL
7	26°11'51"	42.16'	19.28'	9.81'	CL

20 10 0 20 40 60

SCALE: 1" = 20'



KEYMAP

SCALE: NOT TO SCALE

LEGEND

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LOS ANGELES UNIFIED SCHOOL DISTRICT
DESIGN AND A/E
TECHNICAL SUPPORT
FACILITIES SERVICES DIVISION
333 S. BEAUDRY AVENUE, 23RD FLOOR
LOS ANGELES, CALIFORNIA 90017

PROJECT TITLE AND SCHOOL LOCATION

SOIL BORING SURVEY

CANOGA PARK HIGH SCHOOL

6850 CA-27,
CANOGA PARK, CA 91303

COMMISSIONED ARCHITECT

CONSULTANT

Unipian Engineering Inc.

Civil Engineering Transportation & Traffic Engineering
Stormwater Management Land Planning
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STAMPS/SEALS

REGISTERED PROFESSIONAL ENGINEER — ALFRED D. BRILLANES, P.E. — 31488 — Exp. 12-31-24 — CIVIL — STATE OF CALIFORNIA

DIVISION OF THE STATE ARCHITECT

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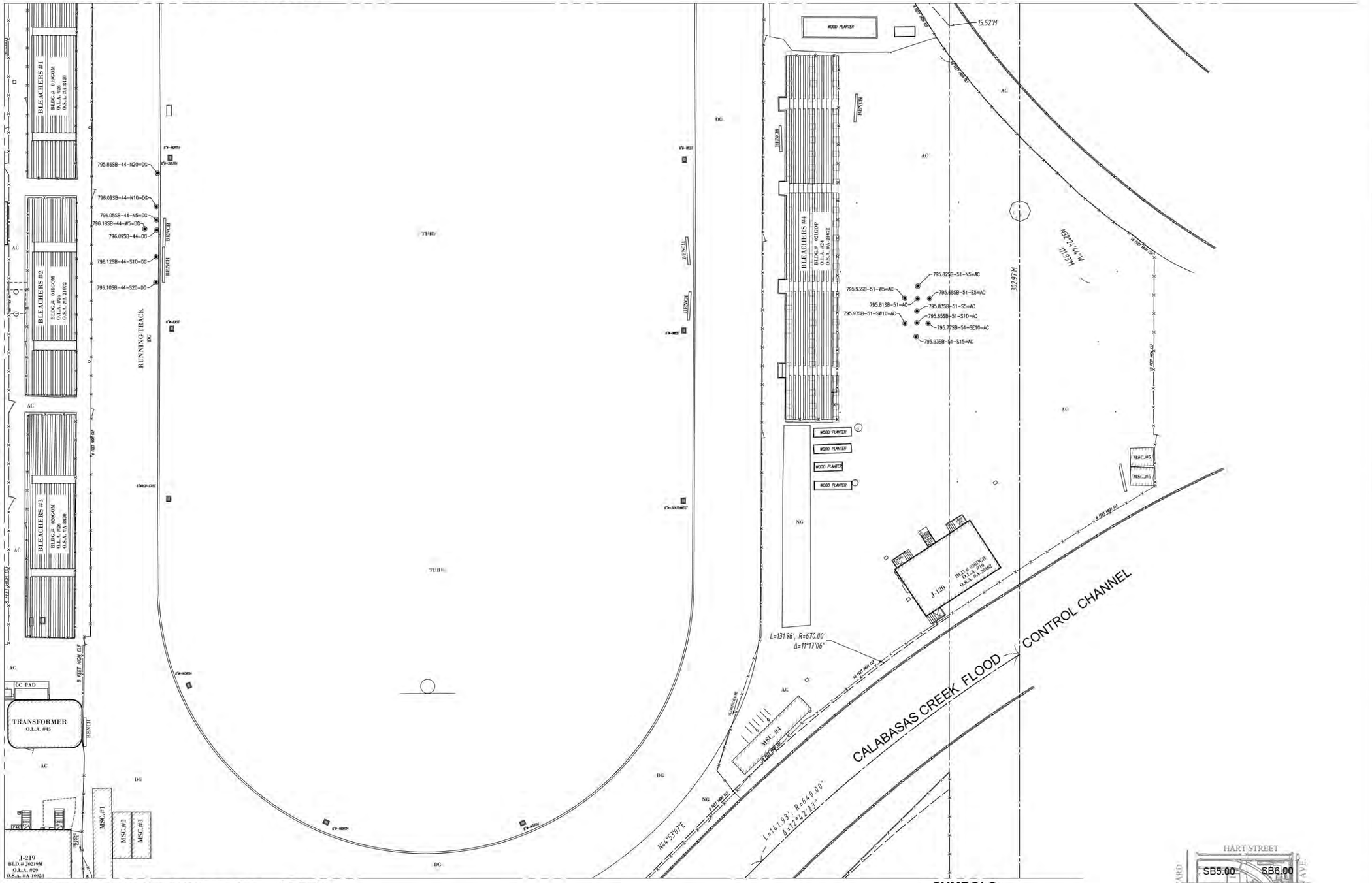
SHEET NUMBER

SB7.00

DATE: 07/20/23 SHEET: 7 OF: 9

"JANUARY ROOT VERSION"

MATCHLINE - SEE SHEET 7 OF 22



MATCHLINE - SEE SHEET 9 OF 22

LEGEND

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KEYMAP
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DESIGN AND A/E TECHNICAL SUPPORT
FACILITIES SERVICES DIVISION
333 S. BEAUDRY AVENUE, 23RD FLOOR
LOS ANGELES, CALIFORNIA 90017

PROJECT TITLE AND SCHOOL LOCATION

SOIL BORING SURVEY

CANOGA PARK HIGH SCHOOL

6850 CA-27,
CANOGA PARK, CA 91303

COMMISSIONED ARCHITECT

CONSULTANT

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Civil Engineering Transportation & Traffic Engineering
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STAMPS/SEALS

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ALFRED D. BRILLANTES, P.E.
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STATE OF CALIFORNIA

DIVISION OF THE STATE ARCHITECT

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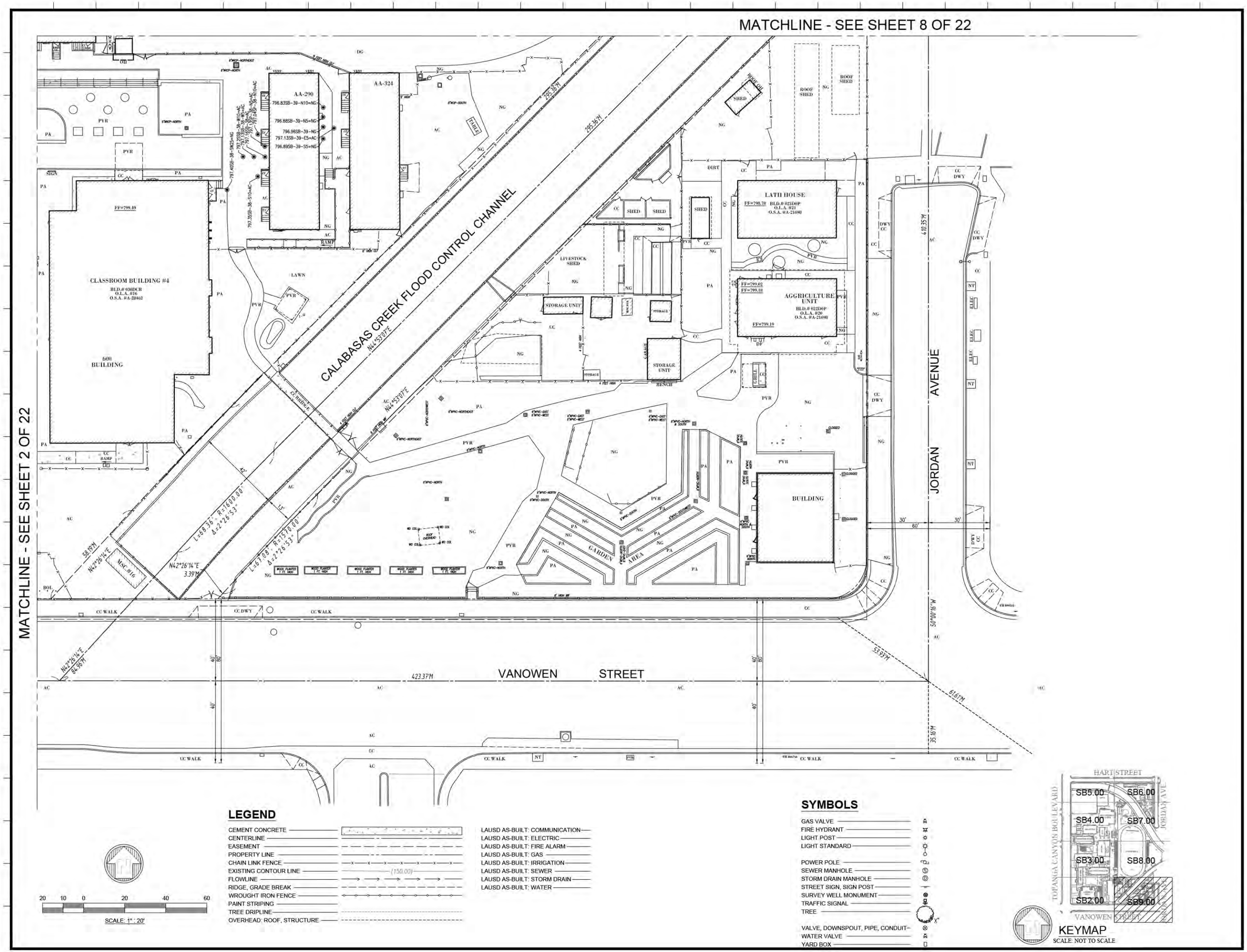

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KEYMAP
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LOS ANGELES UNIFIED SCHOOL DISTRICT
DESIGN AND A/E TECHNICAL SUPPORT
FACILITIES SERVICES DIVISION
333 S. BEAUDRY AVENUE, 23RD FLOOR
LOS ANGELES, CALIFORNIA 90017

PROJECT TITLE AND SCHOOL LOCATION

SOIL BORING SURVEY

CANOGA PARK HIGH SCHOOL
6850 CA-27,
CANOGA PARK, CA 91303

COMMISSIONED ARCHITECT

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Civil Engineering Transportation & Traffic Engineering
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STAMPS/SEALS

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ALFRED D. BRILLANTES, P.E.
31488
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CIVIL
STATE OF CALIFORNIA

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SHEET NUMBER

SB9.00

DATE: 07/20/23 SHEET: 9 OF: 9

"JANUARY 2007 VERSION"

APPENDIX H

Soil Removal Plan

SOIL REMOVAL PLAN
DRAFT - FINAL

CANOGA PARK SENIOR HIGH SCHOOL
LOS ANGELES UNIFIED SCHOOL DISTRICT
6850 TOPANGA CANYON BOULEVARD
CANOGA PARK (LOS ANGELES), CALIFORNIA 91303

Prepared for

Los Angeles Unified School District
Office of Environmental Health and Safety
333 South Beaudry Avenue, 21st Floor
Los Angeles, California 90017

September 20, 2023

Prepared by

PARSONS
100 W. WALNUT STREET • PASADENA • CALIFORNIA 91124

SOIL REMOVAL PLAN – DRAFT FINAL
CANOGA PARK SENIOR HIGH SCHOOL
6850 TOPANGA CANYON BOULEVARD
CANOGA PARK (LOS ANGELES), CALIFORNIA 91303

Prepared for

Los Angeles Unified School District
Office of Environmental Health and Safety
333 South Beaudry Avenue, 21st Floor
Los Angeles, California 90017

September 20, 2023

Prepared by

PARSONS
100 WEST WALNUT STREET • PASADENA • CALIFORNIA 91124

Reviewed by: _____ 9/20/2023
Justin King, Project Manager — Date

Approved by: _____ 9/20/2023
Peter Shair, Professional Geologist — Date

PROFESSIONAL GEOLOGIST
PETER B. SHAIR
NO. 8362
Exp. 5/31/25
STATE OF CALIFORNIA

TABLE OF CONTENTS

EXECUTIVE SUMMARY vii
1.0 INTRODUCTION 1
2.0 Summary of PEA-E 3
2.1 Site Summary 3
2.2 Assessment Plan 3
2.3 PEA-E 4
3.0 Screening Levels for Arsenic and Lead 6
3.1 Arsenic 6
3.2 Lead 6
4.0 NATURE, SOURCE AND EXTENT OF IMPACTS 8
5.0 REMOVAL ACTION IMPLEMENTATION 13
5.1 Public Participation 13
5.1.1 Soil Removal Plan 13
5.1.2 Fieldwork 13
5.2 Health and Safety Plan 13
5.3 Soil Management Plan 14
5.4 Site Preparation and Security Measures 15
5.4.1 Delineation of Excavation Areas 15
5.4.2 Utility Clearance 15
5.4.3 Security Measures 16
5.4.4 Contaminant Control 16
5.4.5 Permits and Plans 16
5.5 Waste Management 16
5.6 Quality Assurance / Quality Control 17
5.6.1 Field Duplicates 17
5.6.2 Temperature Blanks 17
5.6.3 Laboratory QC Samples and Criteria 17
5.6.4 Updated profile Sampling (If Necessary) 18
5.7 Field Documentation 18
5.7.1 Field Logbooks 18
5.7.2 Chain-of-Custody Records 18
5.7.3 Photographs 19

5.8 Excavation 19
5.8.1 Excavation Procedures 19
5.8.2 Waste Segregation Operations 20
5.8.3 SCAQMD Rule 1466 20
5.8.4 Decontamination Procedures 20
5.9 Air and Meteorological Monitoring 21
5.10 Confirmation Sampling 21
5.11 Import Soil Sampling 23
5.12 Transportation Plan for Offsite Disposal 23
5.13 Backfill and Site Restoration 23
5.14 Variances 23
6.0 REPORT OF COMPLETION 24
7.0 COST ESTIMATE 25
8.0 REFERENCES 26

TABLES

TABLE 1 ESTIMATED EXCAVATION VOLUMES
TABLE 2 ESTIMATED COSTS

FIGURES

FIGURE 1 CANOGA PARK SENIOR HIGH SCHOOL SITE MAP
FIGURE 2 CANOGA PARK SENIOR HIGH SCHOOL AERIAL MAP
FIGURE 3 KEY MAP SHOWING AREAS OF CONCERN (AOCS)
FIGURE 3a AOC 1 ESTIMATED EXCAVATION LIMITS FOR ARSENIC IMPACTED SOIL
FIGURE 3b AOC 2 ESTIMATED EXCAVATION LIMITS FOR ARSENIC IMPACTED SOIL
FIGURE 3c AOC 3 ESTIMATED EXCAVATION LIMITS FOR LEAD IMPACTED SOIL
FIGURE 3d AOC 4 ESTIMATED EXCAVATION LIMITS FOR ARSENIC IMPACTED SOIL
FIGURE 3e AOC 5 ESTIMATED EXCAVATION LIMITS FOR ARSENIC IMPACTED SOIL
FIGURE 3f AOC 6 ESTIMATED EXCAVATION LIMITS FOR LEAD & ARSENIC IMPACTED SOIL
FIGURE 3g AOC 7 ESTIMATED EXCAVATION LIMITS FOR LEAD IMPACTED SOIL
FIGURE 3h AOC 8 ESTIMATED EXCAVATION LIMITS FOR ARSENIC IMPACTED SOIL
FIGURE 3i AOC 9 ESTIMATED EXCAVATION LIMITS FOR ARSENIC IMPACTED SOIL
FIGURE 3j AOC 10 ESTIMATED EXCAVATION LIMITS FOR ARSENIC IMPACTED SOIL
FIGURE 3k AOC 11 ESTIMATED EXCAVATION LIMITS FOR ARSENIC IMPACTED SOIL
FIGURE 3l AOC 12 ESTIMATED EXCAVATION LIMITS FOR LEAD IMPACTED SOIL

APPENDICES

APPENDIX A SURVEY
APPENDIX B SCAQMD REQUIREMENTS

ACRONYMS

AOCs	Areas of Concern
Assessment Plan	Preliminary Endangerment Assessment – Equivalent Workplan for Soil Sampling
bgs	below ground surface
CCR	California Code of Regulations
COCs	chemicals of concern
Contractor	Remediation Contractor and/or Design Build Entity
Consultant	Environmental Consultant
CF	cubic foot (feet)
CY	cubic yard(s)
DTSC	California Department of Toxic Substances Control
ECO	ECO and Associates
ESA	Environmental Site Assessment
HASP	Health and Safety Plan
ft	feet
LAUSD	Los Angeles Unified School District
µg/dl	micrograms per deciliter
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
OCP	organochlorine pesticides
OEHS	LAUSD Office of Environmental Health and Safety
OEHHA	Office of Environmental Health Hazard Assessment
PAHs	polycyclic aromatic hydrocarbons
PCBs	polychlorinated biphenyls
PE	California Professional Engineer (Civil)
PEA-E	Preliminary Environmental Assessment – Equivalent
PG	California Certified Professional Geologist
PM10	Particulate matter measuring 10 micrometers or less
PPE	personal protective equipment
PSL	Preliminary Screening Level
QA/QC	quality assurance/quality control
RACR	Removal Action Completion Report
RCRA	Resource Conservation and Recovery Act
REC	Recognized Environmental Condition
RSL	Residential Regional Screening Level
SCAQMD	South Coast Air Quality Management District
Site	Canoga Park Senior High School
STLC	Soluble Threshold Limit Concentration

ACRONYMS CON'T.

SCAQMD	South Coast Air Quality Management District
SMP	Soil Management Plan
SRP	Soil Removal Plan
TPH	Total Petroleum Hydrocarbons
UCL	upper confidence limit
USA	Underground Services Alert
USEPA	United States Environmental Protection Agency
VOCs	volatile organic compounds

EXECUTIVE SUMMARY

This document presents a *Soil Removal Plan* (SRP) for the removal of lead- and/or arsenic-impacted shallow soil located within the Los Angeles Unified School District (LAUSD) Major Modernization project footprint at Canoga Park Senior High School, 6850 Topanga Canyon Boulevard in Canoga Park, California 91303 (Site).

A *Preliminary Environmental Assessment-Equivalent Report (PEA-E)* was prepared to characterize environmental impacts present in Site soils in the proposed project areas. The PEA-E ruled out all chemicals of concerns except for lead and arsenic. The PEA-E recommended the development of this SPR to provide direction to manage the identified shallow lead and/or arsenic-impacted soil. The SRP includes:

- A summary of the recent environmental work done for this project.
- Justification for preliminary screening levels.
- Public participation requirements.
- Impacted soil excavation, storage, transportation, and disposal activity requirements.
- Cost Estimate.
- Confirmation soil sampling requirements.
- Soil Removal Completion Report required components.

An estimated 280 cubic yards (CYs) of soil at 12 areas of concern are impacted based on the results of the field investigation. Approximately 180 CYs can be managed as non-hazardous waste (above preliminary screening levels, but non-hazardous) and approximately 100 CYs can be managed as non-Resource Conservation and Recovery Act [hazardous in California] hazardous waste. The requirements of South Coast Air Quality Management District Rule 1466 must be complied with during the removal of this soil.

All soil excavation and disposal activities will be completed by a properly licensed Remediation Contractor under the oversight of an Environmental Consultant selected by LAUSD's Office of Environmental Health and Safety.

1.0 INTRODUCTION

This *Soil Removal Plan* (SRP) is for the removal of lead- and arsenic-impacted shallow soil located within the Los Angeles Unified School District (LAUSD) Major Modernization project footprint at Canoga Park Senior High School (Site), 6850 Topanga Canyon Boulevard in Canoga Park, California 91303 (**Figure 1**). **Figure 2** is an aerial view of the high school property.

A *Phase 1 Environmental Site Assessment Report* (ESA) was prepared by Eco & Associates for the school in 2019 (ECO, 2019). Based on the recommendations of the Phase I ESA, and the requirements of South Coast Air Quality Management District (SCAQMD) Rule 1466 (SCAQMD, 2017), a *Preliminary Endangerment Assessment-Equivalent Work Plan for Soil Sampling* (Assessment Plan) was prepared (Parsons, 2023a) to characterize potential environmental impacts present in Site soils in the proposed project areas. A *Preliminary Environmental Assessment – Equivalent Report* (PEA-E*)* (Parsons, 2023b) documented the results of the approved work activities described in the Assessment Plan.

The work described in the *PEA-E* was completed as part of LAUSD's plan to determine if historical or recent activities or materials have adversely impacted the surface soil or shallow soil (0 to 3 feet below ground surface [bgs]), prior to grading and construction for the proposed Site modernization activities. LAUSD is proposing the following for the Site (the "Project"):

- Demolition of Cafeteria Building and Lunch Shelter, 12 classrooms in portables and permanent buildings, Shop Building #1 and 3 J-Buildings.
- Construction of new Food Services/Classroom Building including 12 new classrooms with associated support spaces and covered walkways.
- Construction of new Home Restrooms/Concessions/Maintenance & Operations Building.
- Construction of new Visitors' Restrooms/Concessions Building.
- Exterior painting of all remaining buildings to provide a uniform appearance.
- Associated sitework, utilities, landscaping as required for new construction.
- Interim housing as required.
- Barrier removal to comply with Americans with Disability Act.

The PEA-E identified lead and arsenic as the chemicals of concern COCs) for the project. The PEA-E also concluded that the requirements of SCAQMD Rule 1466 apply to the removal of the soil with elevated arsenic and lead concentrations.

This SRP was developed to address shallow soil impacted with lead and/or arsenic identified in the PEA-E. The SRP includes the following: a summary of the PEA-E; justification for preliminary screening levels; requirements for public participation; excavation activities; storage and transportation of soil; confirmation sampling; and requirements of a Soil Removal Completion Report. The SRP assumes that all of the excavation and disposal activities will be completed by a properly licensed Remediation Contractor (Contractor) under the oversight of an Environmental Consultant (Consultant) selected by LAUSD's Office of Environmental Health and Safety

(OEHS). The Contractor will be responsible for providing all documents necessary for the Consultant to prepare and submit a Removal Action Completion Report (RACR) to LAUSD.

2.0 SUMMARY OF PEA-E

2.1 SITE SUMMARY

Canoga Park Senior High School had approximately 1,500 students in the grades 9-12, five (5) administrators, seventy-eight (78) teachers, and thirty-nine (39) support staff in the 2021-2022 school year. The campus initially opened in 1915 as Owensmouth High School and currently consists of 19 permanent buildings, 16 portable buildings, an athletic field, paved driveways and parking areas, and landscaping. The Site is approximately 21.4 acres within Assessor Parcel Number 2138-001-900 and located at 6850 Topanga Canyon Boulevard, Canoga Park, CA 91303.

The Site elevation is approximately796 feet above sea level. The Site is bound by Vanowen Street on its southern side, Jordan Avenue on its eastern side, Hart Street on its northern side, and Topanga Canyon Boulevard on its western side. Two concrete-lined channels cross the Site. Bell Creek enters the Site at the northwest corner and Calabasas Creek enters the Site at the central portion of the southern boundary. The confluence of both creeks forms the beginning of the Los Angeles River at the central portion of the eastern site boundary. Based on records search conducted on the Los Angeles County, Department of Public works well database (http:dpw.lacounty.gov/general/wells/#), the groundwater beneath the Site is located at a depth range of between 763 and 786 feet above sea level. This range is based on data obtained from two wells located approximately 0.5 miles northeast and 0.5 miles west of the Site, respectively. Depth to groundwater has ranged historically from 15 to 20 feet bgs (ECO, 2019). The groundwater flow direction beneath the Site is expected to flow toward the east, similar to the topographic gradient.

2.2 ASSESSMENT PLAN

The Assessment Plan was prepared (Parsons, 2023a) to characterize potential environmental impacts present in Site soils in the proposed project areas. Based on the former activities on the property, and age of the buildings, it was possible that the following were present in shallow soil:

- Lead-based paint (lead),
- Arsenic,
- Organochlorine pesticides (OCPs),
- Polychlorinated biphenyls (PCBs) from transformers, and
- Total petroleum hydrocarbons (TPH) from auto shop operations at the Site.

Note that sampling for TPH was limited to the driveway east of Shop Building #2 and did not include sampling for the hydraulic hoists within this building as this building is outside of the current project limits.

An additional objective of the Assessment Plan was to determine the applicability of SCAQMD Rule 1466. The following analytes were added to the sampling program for this reason:

- Cadmium, chromium, mercury, and nickel.
- Polycyclic Aromatic hydrocarbons (PAHs), and
- Asbestos

2.3 PEA-E

The work was conducted in general accordance with the Assessment Plan, applicable regulatory guidance, including the *Preliminary Endangerment Assessment Guidance Manual* prepared by the California Department of Toxic Substances Control (DTSC), and direction from LAUSD.

A total of 52 initial boring locations were sampled at depths of 0 to 0.5-, 1.5 to 2.0-, and 2.5 to 3.0-feet (ft) bgs. The samples at 2.0- and 3.0-ft bgs were placed on hold with the analytical laboratory pending the results of the 0.5-ft sample. After review of the initial data generated from the 0.5-foot samples where concentrations exceeded preliminary screening levels, 24 samples from deeper depths were analyzed for constituents that exceeded their respective action levels. After LAUSD and Parsons' review of the soil analytical data from the initial 52 borings, 68 step-out borings were also completed.

Analytical results for the soil samples were compared with risk-based screening levels to determine if the analytes are present at concentrations that may represent a potential health risk. The screening levels are referred to here and after as preliminary screening levels (PSLs). For direct exposures to soils, the DTSC's (2015) *Preliminary Endangerment Assessment Guidance Manual* states that risk-based screening levels used should be "the USEPA Regional Screening Level (RSL) for residential land use, modified as necessary by the DTSC in HHRA Note 3." Thus, the screening levels used here are, in general, the USEPA RSLs (2023) unless DTSC (2022) has published a screening value of its own, termed the DTSC-SLs. PSLs for OCPs, PCBs, polycyclic aromatic hydrocarbons (PAHs), and volatile organic compounds (VOCs) were determined in this way. Procedures prescribed by the San Francisco Regional Water Quality Control Board were used to determine the PSLs for TPH. Constituents with special considerations are discussed in more detail in Section 4.2 of the PEA-E (Parsons, 2023b).

2.3.1 Cleared Analytes

The following analytes were sampled for but were either not detected above their laboratory reporting limit, or if it detected, the result was below their respective PSL:

- Cadmium, nickel and mercury
- PAHs
- TPH
- VOCs
- Asbestos

2.3.2 Statistically Cleared Analytes

Given the spatial variability across a site, U.S. Environmental Protection Agency guidance recommends using the average concentration to represent a reasonable estimate of the concentration at a given location. The agency further recommends that due to the uncertainty associated with estimating a true average concentration, the 95 percent upper confidence limit of the arithmetic mean be used for this value. USEPA provides statistical software to determine a site-wide data evaluation: ProUCL.

Several analytes were detected above their respective PSLs. ProUCL was used to support that those individual detections above PSLs for the following analytes can be left in place when considered from a site-wide perspective:

- Hexavalent chromium,
- OCPs, and
- PCBs

2.3.3 Chemicals of Concern

The 95% UCL was calculated for soil samples with an arsenic result less than 30 milligrams per kilogram (mg/kg). ProUCL was used to support that arsenic detections below 30 mg/kg can be left in place when considered from a site-wide perspective. Step-out sampling was conducted at boring locations with an arsenic result exceeding 30 mg/kg to delineate impacts that were recommended for removal.

The 95% UCL was calculated for soil samples collected that did not exceed the Soluble Threshold Limit Concentration (STLC) for lead. ProUCL was used to support that lead detections that do not exceed the STLC threshold of 5.0 mg/L can be left in place when considered from a site-wide perspective. Step-out sampling was conducted at 4 sample locations with lead results that exceeded 5.0 mg/L for STLC to delineate impacts that were recommended for removal.

An estimated 280 cubic yards (CYs) of soil at 12 locations are impacted by arsenic and/or lead based on the results of the field investigation. The PEA-E did not identify any soil that would be defined as hazardous by the federal Resource Conservation and Recovery Act (RCRA). The PEA-E did identify approximately 180 CYs of soil that must be managed as non-hazardous waste (above PSL, but non-hazardous) and approximately 100 CYs of soil that must be managed as non-RCRA [hazardous in California] hazardous waste.

The PEA-E concluded that the requirements of SCAQMD Rule 1466 apply to the soil with elevated arsenic and/or lead concentrations.

3.0 SCREENING LEVELS FOR ARSENIC AND LEAD

Potential exposures to the COCs in soil could result from direct contact, i.e., dermal contact with soil, incidental ingestion of the affected soil, as well as the inhalation of airborne dust particulates.

3.1 ARSENIC

At the concentrations observed in soils at the Site, exposure to arsenic is unlikely to be life threatening from short-term exposures. Rather, longer-term exposures to the relatively low concentrations within the Project Area may result in skin cancer and cancer in the lungs, bladder, liver, kidney, and prostate; inhalation can increase the risk of lung cancer. Other effects that may occur but are less likely from exposures to these lower concentrations include nausea and vomiting, decreased production of red and white blood cells, abnormal heart rhythm, damage to blood vessels, and a sensation of "pins and needles" in hands and feet (ATSDR, 2007a).

The residential risk-based screening levels from USEPA (2023) and DTSC (2022) of 0.68 and 0.11 milligrams per kilogram (mg/kg), respectively, are well below background concentrations. DTSC (2020) conducted a statistical evaluation of background data for arsenic in soils from Los Angeles, Orange, Riverside, San Bernardino, and San Diego Counties to derive an upper bound background threshold value for arsenic. Based on an evaluation of 1,086 data points, the DTSC (2020) derived a background threshold value for arsenic of 12 mg/kg, which is used here as the arsenic screening level.

Soluble arsenic above the State and federal limits of 5 mg/L per their respective methods are considered hazardous. For this reason, 5 mg/L of arsenic is also a screening level for this SRP.

3.2 LEAD

Lead is a bio-accumulative substance and a reproductive and developmental toxin. At the concentrations observed in soils at the Site (i.e., up to 110 mg/kg), lead is unlikely to be life threatening from short-term exposures. Rather, longer-term exposures to the relatively low concentrations within the Project Area may result in decreased performance in some tests that measure functions of the nervous system, including intelligence quotient tests. It may also cause weakness in fingers, wrists, or ankles. Lead exposure also causes small increases in blood pressure, particularly in middle-aged and older people and can cause anemia (ATSDR, 2007b).

Adverse health effects associated with exposure to lead have been correlated with concentrations of lead in whole blood. Although USEPA uses 10 micrograms per deciliter (µg/dl) as the threshold level of concern, California (OEHHA 2007) uses 1 µg/dl. A screening level of 80 mg/kg is protective of a 90th percentile estimate of 1 µg/dl blood lead concentration in children was calculated by Cal EPA (OEHHA 2009), which is used by DTSC (2022). This standard represents the concentration of lead in soil that will result in a 90th percentile estimate of a 1 µg/dl increase

in blood lead in the most sensitive receptor (i.e., child or fetus). DTSC (2022) states that individual samples may exceed 80 mg/kg, as long as the 95% UCL is below 80 mg/kg and hot spots are not present.

Soluble lead above the State and federal limits of 5 mg/L per their respective methods are considered hazardous. For this reason, 5 mg/L of arsenic is also a screening level for this SRP.

4.0 NATURE, SOURCE AND EXTENT OF IMPACTS

There are twelve Areas of Concern (AOCs) identified within the Project Area that have soil containing lead and/or arsenic that exceed their PSLs (i.e., require removal). This SRP has been prepared to establish procedures to address the areas impacted by lead and/or arsenic. The approximate excavation areas are shown on **Figures 3a to 3l**, and include the following:

4.1.1 **AOC-1 (Figure 3a)**: AOC-1 is located east of Building J-219. The excavation in this area addresses soil with non-RCRA hazardous concentrations of soluble arsenic and non-hazardous concentrations of arsenic above the PSL. The excavation limits are undefined in all lateral directions. The existing building prevented step-out sampling to the west of the initial boring (SB-34) and utilities prevented sampling to the east and south. An additional 6 sidewall confirmation samples have been proposed for the northern, southern, western and eastern excavation boundaries to supplement existing data and ensure that arsenic-impacted soil has been removed. The proposed excavation contains non-RCRA hazardous soil as defined by the step-out sampling and is separated into two separate excavations, AOC-1-1 and AOC-1-2. Proposed excavation AOC-1-1 has a volume of approximately 128 cubic feet (CF), and non-RCRA hazardous soil will be removed to a total depth of 2 ft bgs (4.7 CY). AOC-1-2 has a volume of approximately 170 CF, non-RCRA hazardous soil will be removed from 0 to 2 ft bgs (4.2 CY), and non-hazardous soil will be removed from 2 to 3 ft bgs (2.1 CY).

4.1.2 **AOC-2 (Figure 3b):** AOC-2 is located south of the existing cafeteria. The excavation in this area addresses soil with non-RCRA hazardous concentrations of soluble arsenic and non-hazardous concentrations of arsenic above the PSL. The excavation boundaries are laterally undefined in all directions. The existing building prevented step-out sampling to the north of the initial boring (SB-26). An additional 8 sidewall confirmation samples have been proposed for the northern, southern, western and eastern excavation boundaries to supplement existing data and ensure that impacted soil has been removed. The proposed excavation contains both non-hazardous and non-RCRA hazardous soil as defined by step-out sampling and has been separated into five separate excavations, AOC-2-1 thru AOC-2-5. Proposed excavation AOC-2-1 has a volume of approximately 636 CF, and non-hazardous soil will be removed to a total depth of 2 ft bgs (24 CY). Proposed excavation AOC-2-2 has a volume of approximately 134 CF, and non-RCRA hazardous soil will be removed to a total depth of 2 ft bgs (5.0 CY). Proposed excavation AOC-2-3 has a volume of 176 CF, and non-RCRA hazardous soil will be removed to a total depth of 2 ft bgs (6.5 CY). Proposed excavation AOC-2-4 has a volume of approximately 300 CF, and non-hazardous soil will be removed to a total depth of 2 ft bgs (11 CY). Proposed excavation AOC-2-5 has a volume of approximately 348 CF, non-RCRA hazardous soil will be

removed from 0 to 2 ft bgs (8.6 CY), and non-hazardous soil will be removed from 2 to 3 ft bgs (4.3 CY).

4.1.3 **AOC-3 (Figure 3c)**: AOC-3 is located south of building AA-396. The excavation area addresses soil with non-RCRA hazardous concentrations of soluble lead. The extent of the excavation is defined to the east by boring SB-28-W10. The limits are undefined to the south (existing utilities prevented further step-out sampling), to the north (existing building prevented further step-out sampling), and to the east. An additional 5 sidewall confirmation samples have been proposed for the northern, southern and eastern excavation boundaries to supplement existing date and ensure that impacted soil has been removed. The excavation volume is approximately 156 CF and non-RCRA hazardous waste will be removed to 2 ft bgs (5.8 CY).

4.1.4 **AOC-4 (Figure 3d)**: AOC-4 is located on the north side of Buildings A-798 and A-797. The excavation in this area addresses soil with non-RCRA hazardous concentration of soluble arsenic and non-hazardous concentrations of arsenic above the PSL. The excavation areas are partially defined to the north by step-out sample SB-5-NE5 and to the east by step-out sample SB-5-W5. A total of 6 sidewall confirmation samples have been proposed for the northern, southern, western and eastern excavation boundaries to supplement existing data and ensure that impacted soil has been removed. The proposed excavation contains both non-hazardous and non-RCRA hazardous soil as defined by step-out sampling and has been separated into two separate excavations, AOC-4-1 and AOC-4-2. Proposed excavation AOC-4-1 has a volume of approximately 385 CF, and non-hazardous soil will be removed to a total depth of 2 ft bgs (14 CY). Proposed excavation AOC-4-2 has a volume of approximately 77 CF, and non-RCRA hazardous soil will be removed to a total depth of 2 ft bgs (2.9 CY).

4.1.5 **AOC-5 (Figure 3e)**: AOC-5 is located on the west side of Building A-796. The excavation in this area addresses soil with non-RCRA hazardous concentrations of soluble arsenic and non-hazardous concentrations of arsenic above the PSL. The excavation area is delineated to the south by step-out borings SB-7-SW25, SB-7-SW20, and SB-7-S20. The existing building prevented step-out sampling to the west. A total of 4 sidewall confirmation samples have been proposed for the northern, western and eastern excavation boundaries to supplement existing data and ensure that impacted soil has been removed. The proposed excavation contains both non-hazardous and non-RCRA hazardous soil as defined by step-out sampling and has been separated into two separate excavations, AOC-5-1 and AOC-5-2. Proposed excavation AOC-5-1 has a volume of approximately 823 CF, and non-hazardous soil will be removed to a total depth of 2 ft bgs (31 CY). Proposed excavation AOC-5-2 has a volume of approximately 208 CF, and non-RCRA hazardous soil will be removed to a total depth of 2 ft bgs (7.7 CY).

4.1.6 **AOC-6 (Figure 3f)**: AOC-6 is located on the northwest side of Building AA-293. The excavation in this area addresses soil with non-RCRA hazardous concentrations of soluble lead and non-hazardous concentrations of arsenic above the PSL. The excavation area is laterally undefined. The existing building prevented step-out sampling to the south and Bell Creek prevented step-out sampling to the northeast. A total of 6 sidewall confirmation samples have been proposed for the excavation boundaries to supplement existing data and ensure that impacted soil has been removed. The proposed excavation contains both non-hazardous and non-RCRA hazardous soil as defined by step-out sampling and has been separated into four separate excavations, AOC-6-1, AOC-6-2, AOC-6-3, and AOC-6-4. Proposed excavation AOC-6-1 has a volume of approximately 36 CF, and non-hazardous soil will be removed to a total depth of 2 ft bgs (1.3 CY). Proposed excavation AOC-6-2 has a volume of approximately 136 CF, and non-hazardous soil will be removed to a total depth of 3 ft bgs (5.0 CY). Proposed excavation AOC-6-3 has a volume of approximately 271 CF, and non-hazardous soil will be removed to a total depth of 2 ft bgs (10 CY). Proposed excavation AOC-6-4 has a volume of approximately 305 CF, non-RCRA hazardous soil will be removed from 0 to 2 ft bgs (7.5 CY), and non-hazardous soil will be removed from 2 to 3 ft bgs (3.7 CY).

4.1.7 **AOC-7 (Figure 3g)**: AOC-7 is located south of building AA-293. The excavation area addresses soil with non-RCRA hazardous concentrations of soluble lead. The extent of the excavation is defined to the northwest by boring SB-3-NW5 and to the southwest by boring SB-3-SW10. The limits are undefined to the north (existing building prevented further step-out sampling), to the south, and to the east. An additional 4 sidewall confirmation samples have been proposed for the northeastern, southeastern, and southern excavation boundaries to supplement existing data and ensure that impacted soil has been removed. The excavation volume is approximately 367 CF and non-RCRA hazardous waste will be removed to 2 ft bgs (14 CY).

4.1.8 **AOC-8 Figure 3h)**: AOC-8 is located east of the cafeteria and south of building J-131. The excavation area addresses soil with non-hazardous concentrations of arsenic above the PSL. The extent of the excavation is defined to the south by boring SB-20-S5. The limits of the excavation are undefined to the east (existing storage container prevented further step-out sampling), and to the north and east (utilities prevented further step-out sampling). An additional 3 sidewall confirmation samples have been proposed for the north, west, and east excavation boundaries to supplement existing data and ensure that impacted soil has been removed. The excavation volume is approximately 283 CF and non-hazardous waste will be removed to 3 ft bgs (10 CY).

4.1.9 **AOC-9 (Figure 3i)**: AOC-9 is located on the western side of the athletic track. The excavation in this area addresses soil with non-hazardous concentrations of arsenic above the PSL. The excavation boundary is defined to the west by step-out boring SB-44-W5.

The excavation boundary was not defined to the east (existing water line prevented further step-out sampling), south, and north. A total of 5 sidewall confirmation samples and one bottom sample have been proposed for the excavation boundaries to supplement existing data and ensure that impacted soil has been removed. The proposed excavation contains non-hazardous soil as defined by step-out sampling and has been separated into two separate excavations, AOC-9-1 and AOC-9-2. Proposed excavation AOC-9-1 has a volume of approximately 656 CF, and non-hazardous soil will be removed to a total depth of 3 ft bgs (24 CY). Proposed excavation AOC-9-2 has a volume of approximately 262 CF, and non-hazardous soil will be removed to a total depth of 2 ft bgs (9.7 CY).

4.1.10 **AOC-10 (Figure 3j)**: AOC-10 is located east of Bleachers #4. The excavation in this area addresses soil with non-RCRA hazardous concentrations of soluble arsenic and non-hazardous concentrations of arsenic above the PSL. The excavation area is undefined in all directions. A total of 6 sidewall confirmation samples have been proposed for the northern, southern, western, and eastern excavation boundaries and one bottom sample to supplement existing data and ensure that impacted soil has been removed. The proposed excavation contains both non-hazardous and non-RCRA hazardous soil as defined by step-out sampling and has been separated into two separate excavations, AOC-10-1 and AOC-10-2. Proposed excavation AOC-10-1 has a footprint of approximately 408 CF, and non-hazardous soil will be removed to a total depth of 2 ft bgs (15 CY). Proposed excavation AOC-10-2 has a footprint of approximately 305 CF, and non-RCRA hazardous soil will be removed to a total depth of 3 ft bgs (11 CY).

4.1.11 **AOC-11 (Figure 2k)**: AOC-11 is located west of building AA-290. The excavation in this area addresses soil with non-RCRA hazardous concentrations of soluble arsenic and non-hazardous concentrations of arsenic above the PSL. The excavation area is defined to the west by step-out boring SB-38-W10 and to the southwest by step-out boring SB-38-SW25. A total of 4 sidewall confirmation samples and have been proposed for the northern, southern, and eastern excavation boundaries to supplement existing data and ensure that impacted soil has been removed. The proposed excavation contains both non-hazardous and non-RCRA hazardous soil as defined by step-out sampling and has been separated into two separate excavations, AOC-11-1 and AOC-11-2. Proposed excavation AOC-11-1 has a volume of approximately 119 CF, and non-hazardous soil will be removed to a total depth of 3 ft bgs (4.4 CY). Proposed excavation AOC-11-2 has a volume of approximately 617 CF, non-RCRA hazardous soil will be removed from 0 to 2 ft bgs (15 CY), and non-hazardous waste will be removed from 2 to 3 ft bgs (7.6 CY).

4.1.12 **AOC-12 (Figure 3l)**: AOC-12 is located east of building AA-290. The excavation area addresses soil with non-RCRA hazardous concentrations of soluble lead. The extent of the excavation is defined to the north by boring SB-39-N10, to the east by boring SB-39-E5, and to the south by boring SB-39-S5. The limits are undefined to the west (existing building

prevented further step-out sampling). An additional 1 sidewall confirmation sample has been proposed for the western boundary to supplement existing data and ensure that impacted soil has been removed. The excavation volume is approximately 170 CF and non-RCRA hazardous waste will be removed to 2 ft bgs (6.3 CY).

The estimated excavation volumes in **Table 1** are a summary of the above-listed AOCs.

5.0 REMOVAL ACTION IMPLEMENTATION

The field procedures and methods that will be used to implement the removal action are described in this section. This section also specifies activities to be completed by the Remediation Contractor (Contractor) that will be handling the soil and the Environmental Consultant (Consultant) hired by OEHS to provide oversight and reporting services. Contractor also applies to the general contractor/design build entity responsible for completing the Project.

5.1 PUBLIC PARTICIPATION

5.1.1 SOIL REMOVAL PLAN

Like the PEA-E, two versions of this SRP are being created: a draft version and a final version. The difference between the two depends on if the public has had a chance to comment on the document as part of the California Environmental Quality Act (CEQA) approval process. The draft version is pre-public comment, and the final is post-public comment. The cover page of this document indicates which version of the document this is. The text of this section in this draft version will be revised to state the following:

- Where the draft PEA-E was posted online (likely to be https://www.lausd.org/siteassessment)
- When the public comment period occurred,
- Copies of all comments received, if any, and
- Responses to all comments in English and Spanish.

5.1.2 FIELDWORK

Prior to beginning fieldwork for the proposed removal action, the Consultant will distribute a SRP Work Notice to Canoga Park Senior High School students and staff and nearby residents and businesses (i.e., within line-of-sight). The notice will also be laminated and posted along the fence line of the project. The notice will be prepared in English and Spanish.

5.2 HEALTH AND SAFETY PLAN

At least two site-specific Health and Safety Plans (HASPs) will be prepared for the project: one by and for each involved Contractor and one by and for the Consultant. The HASPs will outline current safety standards as defined by the USEPA, the Occupational Safety and Health Administration, and the National Institute of Occupational Safety and Health. Additionally, the HASP will be prepared in accordance with guidelines set forth in Title 8 of CCR Section 5192.

Prior to the commencement of each day's activities, a tailgate health and safety meeting will be held. Everyone on-site working on activities associated with this SRP will be required to sign the appropriate HASP(s) to demonstrate that they are familiar with the HASP and that they participated in, or were briefed on, the daily tailgate meeting.

5.3 SOIL MANAGEMENT PLAN

At least thirty (30) days prior to the planned removal of any soil covered by this SRP, the Contractor shall prepare and submit for review and approval by OEHS a Soil Management Plan (SMP). OEHS has up to seven (7) days to approve, comment or reject the SMP. At a minimum, the SMP must include the following:

- Timing statements that;
  - LAUSD will be given at least three (3) business days' notice prior to any activities that require the Consultant.
  - OEHS will be given at least three (3) business days to certify profiles,
  - OEHS will be given at least three (3) business days to approve manifests,
  - Contractor understands that AOCs must remain undisturbed up to three (3) business days after the collection of the soil samples to allow for the receipt of the laboratory reports.
- Statements that;
  - This SRP was reviewed.
  - Soil within ten feet (10 ft) of the limits of any AOC will not be disturbed prior to the excavation by Contractor and subsequent closure by OEHS of that AOC.
  - The hardscape (i.e., pavement, etc.) covering any AOC will not be removed more than five (5) days before the excavation of that AOC.
  - If Contractor removes any structures (e.g., buildings) that are necessary to lay out an AOC, Contractor becomes responsible for providing the resources necessary (i.e. survey crew) to determine the limits of that AOC.
- Identify if the soil will be direct loaded, stockpiled, or placed in a container.
- SCHEDULE section that identifies when the AOCs will be removed (e.g., all at once, in phases with AOCs identified, etc.)
- Identify anticipated facility(ies) that will receive the non-hazardous soil with anticipated route(s) from the Site to that facility.
- Identify anticipated facility(ies) that will receive the hazardous soil with anticipated route(s) from the Site to that facility.
- It is possible that by the time the impacted soil is removed from the Site that the laboratory analytical results contained in the PEA-E will be more than a year old. The SMP must identify if any additional laboratory analysis is necessary to allow the facility to create a profile. Should additional analyses be necessary, the Consultant will complete the analyses identified by the Contractor. The Contractor, not the Consultant, will be responsible for

determining the correct analyses. If necessary, the Contractor's schedule must include at least 30 days for the Consultant to collect and report on the results.

- EQUIPMENT section that includes the list of equipment anticipated to be used. This section should also include the statement that the bucket used to excavate the AOCs will be smooth (i.e., no teeth)
- VARIANCE section that identifies any activities that must be performed in a manner that deviates from this SRP. This section must describe why each variation is necessary. The section must indicate the sentence "No variances requested" if that is the case.

5.4 SITE PREPARATION AND SECURITY MEASURES

Site preparation activities, prior to mobilization for the proposed soil removal action, may include Site inspections, surveying, marking excavation limits, and improvement of access gates/roads as necessary. It is assumed that any currently existing buildings and pavement overlying or adjacent to the impacted soil areas will be removed prior to excavation work.

5.4.1 DELINEATION OF EXCAVATION AREAS

The lateral and vertical extent of impacted soil was estimated based on the previous investigation activities. The estimated limits of impacted soil are shown on **Figures 3a thru 3i** for AOC-1 through AOC-12. The volume of soil removed may increase when the excavation work is conducted and will be based on the results of the confirmation soil sampling and analysis required to confirm the excavation walls and depths have reached clean (i.e., below screening levels) soil. A survey of the initial and step-out soil boring locations is provided in **Appendix A.**

5.4.2 UTILITY CLEARANCE

Prior to commencing with excavation activities, the Contractor will contact Underground Service Alert (USA) at least 72 hours in advance and request to identify the location of the utilities that enter the Site. The Consultant will clearly mark the proposed excavation areas with white paint as required by USA. USA will contact all utility owners of record within the Site vicinity and notify them of the intent to excavate. All utility owners of record will be expected to clearly mark the position of their utilities on the ground surface at they enter the Site, or mark if there is no conflict.

Contractor is responsible for the identification and protection of all underground structures. Prior to subsurface excavation work, a geophysical survey, using a magnetometer and ground penetrating radar, is recommended in proposed excavation areas to also help identify subsurface utilities and features (i.e., underground utility tunnel), or other potential structures. Necessary precautions are required to be taken prior to and during the excavation activities to ensure that subsurface utility lines and other structures are identified and marked so they are not damaged.

If available, LAUSD should provide copies of documents related to the presence of subsurface utilities and structures to the Contractor.

5.4.3 SECURITY MEASURES

The school is secured by perimeter fencing. Contractor is responsible for isolating the Project Area with temporary fencing as required by other contract documents. At a minimum, the Contractor will place barricades, such as delineators with caution tape, around the perimeters of the excavation areas at the end of each day to reduce the potential for unauthorized personnel to enter the excavations.

5.4.4 CONTAMINANT CONTROL

The Contractor will perform dust suppression by lightly spraying or misting the work areas with water. Water mist may also be used on soil placed in temporary stockpiles or in the transport trucks. After the soil is loaded into the transport trucks, the soil will be covered to prevent soil from spilling out of the truck during transport to the disposal facility. Additionally, truck tires and trailers will be cleaned as needed to remove Site soil, before leaving the Site.

If ponded precipitation occurs or water seeps into the excavations prior to confirmation soil sampling, the Contractor will either wait for the water to evaporate or pump the water from the excavation into an aboveground container (e.g., tank or drum(s)). The Consultant would then sample the water in the container for profiling purposes. OEHS would then direct the Contractor to either incorporate the water in the container into their dust control operations or dispose of the water offsite in accordance with federal, state, and local regulations.

While on the school property, all vehicles will maintain slow speeds (i.e., less than 5 miles per hour) for safety purposes and for dust control measures. Efforts will also be made to minimize the soil drop height from the excavator bucket into the transport trucks.

5.4.5 PERMITS AND PLANS

The Contractor is responsible for obtaining all permits and preparing the construction plans for the Project.

5.5 WASTE MANAGEMENT

It is anticipated that four types of wastes could be generated at the Site during implementation of the SRP including the following:

- Recyclable construction debris, including concrete rubble and rock. The recyclable construction debris will be transported to a local recycling facility via dump trucks (end dumps), unless re-use options are available on-site, or there is no local recycling facility available.

- Non-recyclable construction debris include weeds, trash, and discarded personal protective equipment (PPE), etc. The non-recyclable construction debris are not considered hazardous and will be transported and disposed at a local landfill via dump trucks.
- All lead- and arsenic-impacted non-hazardous material will be transported to a licensed and approved facility that is properly permitted to accept the waste classification (i.e., nonhazardous or non-RCRA). The facilities should be permitted as the final location for the soil (i.e., not a transfer facility) and must be pre-approved by LAUSD for disposal of the material.
- Wastewater generated during soil removal activities including but not limited to decontamination liquids will be temporarily placed inside 55-gallon Department of Transportation-approved drums. The drums will be labeled, profiled and transported off-site to an approved treatment or disposal facility.

5.6 QUALITY ASSURANCE / QUALITY CONTROL

Quality assurance/quality control (QA/QC) samples and measure to be used by the Consultant during project execution are discussed below.

Field QC samples will be collected and analyzed during project sampling to assess consistency and performance of the sampling program. Field QC samples will include field duplicates and temperature blanks.

5.6.1 FIELD DUPLICATES

A field duplicate is defined as two or more samples collected independently at the same sampling location during a single act of sampling. One field duplicate will be collected for every 10 primary project samples that are submitted to the laboratory and will be analyzed for the same analyses as the primary field sample. If fewer than 10 primary samples are collected, at least one field duplicate should still be collected and analyzed per day. Each of the field duplicates will be uniquely identified with a coded identifier, which will be in the same format as other sample identifiers.

5.6.2 TEMPERATURE BLANKS

Consultant to request that laboratory provide one temperature blank to accompany each cooler containing project samples submitted to the laboratory. Temperature measurements are essential to verify proper sample preservation for all analyses requiring sample preservation by refrigeration ($4^o \pm 2^o$ Celsius). Laboratory personnel will obtain temperature measurements from the temperature blank upon receipt of sample shipment containers, and this measurement will be recorded on the chain-of-custody form.

5.6.3 LABORATORY QC SAMPLES AND CRITERIA

Laboratory QC data are necessary to determine the precision and accuracy of the analyses, confirm matrix interferences, and demonstrate target compound contamination of sample results. QC

samples will be analyzed routinely by the analytical laboratory as part of the method QC procedures.

5.6.4 UPDATED PROFILE SAMPLING (IF NECESSARY)

Should the Contractor's SMP indicate that new profiling samples must be collected to satisfy the disposal facility(es), the Consultant shall collect the necessary samples. Should the results of this sampling indicate a change in the waste classification, the more conservative disposal will apply. For example,

- If the results indicate a non-RCRA AOC is nonhazardous, the soil will still be sent off as non-RCRA waste,
- If the results indicate a non-RCRA AOC is a RCRA hazardous waste, the soil will be sent off as RCRA waste.

5.7 FIELD DOCUMENTATION

During the impacted soil excavation activities, a field engineer or geologist under supervision of a California PE or PG working for the Consultant will document field observations. The field notes will contain pertinent observations about excavation dimensions, equipment operation, unusual conditions encountered during excavation, date and time of arrival, general Site conditions, confirmation soil sampling activities, and other field observations relating to the Site. Field documentation will also include photographs and written logs as described below.

5.7.1 FIELD LOGBOOKS

Logs will be maintained daily and will include:

- Records of all personnel and project-related visitors at the Site;
- Work conducted;
- Equipment used;
- Dust monitor readings from field monitoring;
- VOC monitoring if applicable;
- A record of all formal Site meetings such as health and safety meetings, daily tailgate meetings, and agency meetings; and
- Description of all photographs taken to document the field conditions and activities.

Additionally, the Contractor and Consultant to work cooperatively to maintain a detailed log of each truck loaded with soil at the Site, and will include truck identification and driver name, destination, excavated materials and estimated size of load, and a field copy of the shipping manifest.

5.7.2 CHAIN-OF-CUSTODY RECORDS

The Consultant shall maintain detailed chain-of-custody records for all confirmation samples.

5.7.3 PHOTOGRAPHS

The Consultant will document Site conditions and/or excavations with photographs before, during, and after excavation activities.

5.8 EXCAVATION

To mitigate the impacted soils for the protection of human health, approximately 280 CY of existing soil will be excavated and removed from the Site. The total volume of soil required to be excavated based on current screening levels may increase after the currently existing structures and pavement are removed, the impacted soil is excavated, and the confirmation sampling is completed, as discussed above in this SRP. The excavated soil will be handled, transported, and disposed of by the Contractor based on the analytical results from the PEA-E sampling activities.

Approximately 180 CY of soil will be managed as non-hazardous soil and 100 CY of soil will be managed as non-RCRA hazardous soil. It is possible that post PEA-E sampling data may result in a different waste classification of the soil to be disposed of, but based on the existing data to date, a classification change is not anticipated at this time.

If regulatory screening levels change between the date of this SRP and the time the removal activities occur, soil excavation and disposal volumes may be subject to change. The Contractor will obtain approval from the disposal facilities prior to the start of excavation activities.

5.8.1 EXCAVATION PROCEDURES

Conventional construction equipment, such as a backhoe or excavator with bladed buckets, will be used to excavate the soil. Dust and vapor suppression procedures are discussed above, and monitoring is discussed below.

For the areas where concrete/asphalt exists above the proposed removal area, the existing concrete/asphalt will be saw-cut and broken out with a pneumatic concrete breaker or equivalent. The concrete/asphalt debris will be segregated and stockpiled nearby for offsite disposal/recycling when the remaining concrete is removed during non-remedial school redevelopment activities.

Excavations are not anticipated to be deeper than 3 feet bgs; therefore, sloping and shoring should not be required. It is assumed that buildings will be removed prior to excavation and sloping/shoring will not be required unless buildings will be left in place. Once the excavations are completed at each selected location, confirmation soil sampling will be conducted. Excavations will proceed in lateral and vertical directions until the first of 1) cleanup goals are demonstrated to have been met, or 2) the Project Area boundaries are reached. LAUSD OEHS will provide written direction, email is acceptable, on the need for additional excavation or approval to backfill.

It is anticipated that the impacted excavated soil will be direct loaded into trucks for immediate transport to an appropriate offsite disposal facility, to the extent possible. Roll-off bins may also

be used. Temporary stockpiling may be necessary based on truck availability and/or other logistics. If the soil is stockpiled, the stockpiles will be placed on plastic sheeting and covered with plastic sheeting at the end of the day, and the edges of the plastic sheeting will be secured with sandbags or similar. The stockpiles will remain covered until load-out.

5.8.2 WASTE SEGREGATION OPERATIONS

The soil excavated from individual excavations within the proposed excavation footprint areas (as depicted on **Figures 3a thru 3l**) areas will be properly managed. Approximately 180 CY can be managed as non-hazardous waste and 100 CY can be managed as non-RCRA hazardous waste. The Contractor and Consultant will oversee truck loading or roll-off bin removal operations to ensure that a properly completed non-hazardous waste manifests/bills of lading accompany each truck or bin and that it is directed to the appropriate disposal facility, based on its waste classification.

If impacted soil is temporarily stockpiled onsite, the plastic covering will be marked with large letters, applied with spray paint, to indicate the source of the soil and its waste classification. Labels that indicate the waste generator, waste type, accumulation start date, and contact information will be applied to the outside of any drums or roll-off bins used to temporarily store impacted soil. Strict segregation of soil based on waste type will be maintained to avoid any mixture of non-hazardous soil and adjacent clean soil, and hazardous soil.

5.8.3 SCAQMD RULE 1466

The removal of the soil from the AOCs must be completed in accordance with SCAQMD Rule 1466. The current version of the entire Rule should be reviewed and complied with. The requirements for between 50 and 500 cubic yards must be complied with because 280 CY of impacted soil will be removed. If the soil is directly loaded into a truck bed, trailer, or bin for transport, at a minimum, the following sections apply:

- (e)(3) through (e)(9),
- (e)(13) through (e)(15), and
- Subdivisions (f), (h), and (i).

Appendix B contains the above requirements as of the publication date of this SRP.

5.8.4 DECONTAMINATION PROCEDURES

Protocols must be followed to prevent cross-contamination from the use of construction equipment and implementation of other activities as a part of the removal action. The following decontamination procedures must be used by the Contractor:

- Equipment used for excavation will be dry decontaminated prior to moving to other areas of the Site.

- Prior to exiting the Site, the transport truck drivers will be required to stop and inspect the tires and sides of their trucks for loose soil debris. Extra soil will be removed using a wire brush or broom as deemed appropriate. This cleanup/decontamination area will be setup as close to the loading area as possible to minimize spreading the impacted soil.
- Street sweeping procedures will be implemented as necessary to reduce the potential for fugitive dust and migration of contamination.

5.9 AIR AND METEOROLOGICAL MONITORING

The project area is located within the jurisdiction of the SCAQMD. Based on the projected volume of soil requiring excavation (exceeding 50 CY), airborne dust monitoring will be conducted by the Consultant using portable dust monitors to verify and document dust suppression efforts, per the SCAQMD's Rule 1466. The air monitoring should be done in compliance with the provisions of the current Rule, including particulate matter measuring 10 micrometers or less (PM10) monitoring, dust control measures, notification, signage, and recordkeeping requirements. Rule 1466 allows for alternative dust control measures and ambient dust concentration limits, provided the provisions are pre-approved by the Executive Officer. Fugitive dust control measures will be implemented at the Site to mitigate offsite dust migration onto neighboring properties through light watering of the active excavation areas throughout the removal action. Air monitoring for dust will be performed during the excavation activities in the worker's breathing zone, in the general work area, and at the perimeters of the excavation areas utilizing an upwind/downwind sampling approach.

Access to the Site will be controlled and excavation will not be conducted during times of high wind conditions (e.g., consistent wind speeds greater than 15 miles per hour and/or gusts of greater than 25 miles per hour). Onsite ambient weather conditions (wind speed and direction, temperature, and relative humidity) should be monitored by the Consultant with an onsite meteorological station.

Consultant has the authority to stop work if they feel that Contractor is failing to meet their dust suppression obligations under Rule 1466.

5.10 CONFIRMATION SAMPLING

The confirmation sampling program for the proposed removal action will consist of collecting soil confirmation samples from the bottom and sidewalls of the excavations that were not defined by step-down and step-out sampling previously conducted during the PEA-E investigation.

Confirmation soil sampling will be conducted at a minimum frequency of approximately one sample per 20 linear feet of sidewall and one per 500 square feet of excavation bottom. The sidewall samples will be collected at mid-depth of the excavation. Confirmation sample locations are depicted on **Figures 3a thru 3l.** QA/QC samples will be collected and analyzed as described in Section 5.6.

The confirmation soil samples will be collected from locations along excavation sidewalls and bottoms by scooping the soil directly into laboratory-supplied, new glass sample jars from the soil face. Dry decontamination methods (paper towels and Simple Green®, or equivalent) of sampling equipment will be completed between samples.

The soil samples will be labeled with the following information: sample identification; project number; Site name; date and time of collection; requested analysis; and sampler initials. This information plus requested analysis will be also added to the chain of custody form.

The sample identification will follow the following format: AOC No., direction, sample number in that direction. For example, the identification for the initial soil sample collected from the north wall of AOC-1 would be "AOC-1-N-1. Should this sample fail, the identification for the next confirmation sample would be "AOC-1-N-2. The identification for the initial northerly sample from the west wall of AOC-1 would be "AOC-1-NW-1".

Chain-of-custody documentation will be maintained for all samples and be delivered with the samples to the laboratory.

Confirmation soil samples collected from AOC-1 through AOC-12 will be analyzed for lead using USEPA Method 6010B and/or for arsenic using EPA Method 6020. Review the associated metal(s) as identified in Section 4 for each AOC to determine the proper metal(s) to be tested for. All samples with total metal concentrations above 50 mg/kg from non-RCRA AOCs will additionally be analyzed to determine the STLC.

The quantity of soil removed from the excavations will be reconciled by comparing the volumes excavated to the quantities reported on the waste manifests. Copies of the waste manifests, showing appropriate signatures from the receiving facility, will be included in the RACR.

The laboratory results of the confirmation soil sampling will be reviewed by the Consultant and LAUSD – OEHS and compared against the cleanup goals stated herein, which are the following:

- Lead = 80 mg/kg, STLC = 5 mg/L
- Arsenic = 12 mg/kg, STLC = 5 mg/L

Upon review of the confirmation soil sample results, step-out or step-down soil sampling and additional excavation may be requested by LAUSD – OEHS.

The Consultant shall enter all the data collected from the PEA-E into a spreadsheet. ProUCL will be used to update the 95% UCL for arsenic and lead as sample locations are removed and new samples are collected.

5.11 IMPORT SOIL SAMPLING

If soil is imported to the Site it needs to be tested and certified in accordance with LAUSD Section 01 4524 specifications – "Environmental Import/Export Materials Testing" (latest version), which includes provisions for LAUSD OEHS review and approval prior to soil import.

5.12 TRANSPORTATION PLAN FOR OFFSITE DISPOSAL

The excavated soil will be segregated and managed as explained in Section 5.8. Non-hazardous soils will be transported to an approved landfill for disposal. Non-RCRA hazardous soils will be transported to a licensed and properly permitted Class 1 disposal facility or an out-of-state facility permitted to accept such waste. If RCRA wastes are encountered, the Class 1 disposal facility that accepts the RCRA hazardous soil may require that the soil be treated prior to disposal pursuant to the land ban restrictions found at Title 40, CCR, Part 376. The final determination as to which facilities are used is subject to approval by the LAUSD OEHS prior to beginning soil removal activities.

5.13 BACKFILL AND SITE RESTORATION

Backfilling of the excavations will be conducted in accordance with the Project's geotechnical Engineer and are beyond the scope of this SRP.

5.14 VARIANCES

As conditions in the field may vary, it may become necessary to implement minor modifications to soil removal activities as presented in this SRP. Field personnel will notify the LAUSD OEHS project manager when deviations from this SRP are necessary. Modifications to the SRP will be documented in the field logbook and in the RACR.

6.0 REPORT OF COMPLETION

Following completion of the removal action, a RACR will be prepared and submitted to the LAUSD for review and approval. A RACR documenting activities conducted pursuant to this SRP will be prepared by the Environmental Consultant upon completion of the soil removals. At a minimum, the RACR will include the following:

- Summary of field activities
- Summary of laboratory results
- Conclusions and recommendations
- Signature and seal of California-licensed civil engineer or geologist responsible for the work
- Figures showing final excavation extents and soil sampling locations
- Tables summarizing confirmation sample analytical results
- Copies of manifests and weight tickets
- Copies of laboratory reports
- Photographic documentation of the work with dates and descriptions
- Copies of air monitoring records
- Copies of daily field notes
- Copies of final ProUCL outputs for arsenic and lead

7.0 COST ESTIMATE

A cost estimate for the proposed soil removal action described above was prepared to aid in evaluating the impacted-soil removal and disposal activities. A breakdown of the costs is shown in **Table 2**, and is an approximation that can be used to provide estimates for budgetary purposes. The total estimated cost is $350,000, with an upper bound of $530,000 (+50%) and a lower bound of $280,000 (-20%).

8.0 REFERENCES

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TABLES

TABLE 1
ESTIMATED EXCAVATION VOLUMES
LAUSD - CANOGA PARK SENIOR HIGH SCHOOL

PEA-E ID	Area of Concern	Subarea	Non-Hazardous		Non-RCRA Hazardous		Total Soil
--	--	--	cubic feet	cubic yards	cubic feet	cubic yards	cubic yards
SB-34	AOC 1	-1	0	0.0	128	4.7	11.0
		-2	57	2.1	113	4.2	
SB-26	AOC 2	-1	636	23.6	0	0.0	59.0
		-2	0	0.0	134	5.0	
		-3	0	0.0	176	6.5	
		-4	300	11.1	0	0.0	
		-5	116	4.3	232	8.6	
SB-28	AOC 3	--	0	0.0	156	5.8	5.8
SB-5	AOC 4	-1	385	14.3	0	0.0	17.1
		-2	0	0.0	77	2.9	
SB-7	AOC 5	-1	823	30.5	0	0.0	38.2
		-2	0	0.0	208	7.7	
SB-1	AOC 6	-1	36	1.3	0	0.0	27.7
		-2	136	5.0	0	0.0	
		-3	271	10	0	0.0	
		-4	102	3.8	203	7.5	
SB-3	AOC 7	--	0	0.0	367	13.6	13.6
SB-20	AOC 8	--	283	10.5	0	0.0	10.5
SB-44	AOC 9	-1	656	24.3	0	0.0	34.0
		-2	262	9.7	0	0.0	
SB-51	AOC 10	-1	408	15.1	0	0.0	26.4
		-2	0	0.0	305	11.3	
SB-38	AOC 11	-1	119	4.4	0	0.0	27.3
		-2	206	7.6	411	15.2	
SB-39	AOC 12	--	0	0.0	170	6.3	6.3
Totals:[1]				**180**	**--**	**100**	**280**
Totals (tons):[2]				**310**	**--**	**170**	**480**

Notes:
1. Numbers may not total due to rounding
2. Assumes 1.7 tons per cubic yard

TABLE 2
ESTIMATED COSTS
LAUSD - CANOGA PARK SENIOR HIGH SCHOOL

Item / Description	Quantity	Unit	Price	Cost ($)
Equipment mob/demob	2	Each	$10,000	$20,000
Excavate, stockpile, and load out	10	Day	$15,000	$150,000
Transport and Disposal (Non-Haz)	310	Ton	$100	$31,000
Transport and Disposal (Non-RCRA Haz)	170	Ton	$200	$34,000
Import and compact clean backfill[1]	340	Cubic Yard	$50	$17,000
DTSC Generator Fee[2]	480	Ton	$60	$28,800
Consultant - Oversight	10	Day	$5,000	$50,000
Consultant - RACR	1	Each	$15,000	$15,000
			Total Estimate:[3]	**$350,000**
			Contingency (deduct) -20%	$280,000
			Contingency (add) 50%	$530,000

Notes

1. Twelve percent (12%) added for clean import due to lack of compaction in trucks
2. Price rounded up to nearest ten after adding 15% to current rate of $49.25/ton
3. Rounded up to nearest ten thousand dollars
3. No repaving, permitting, soil confirmation, add'l profiling, compaction testing, costs included.

FIGURES

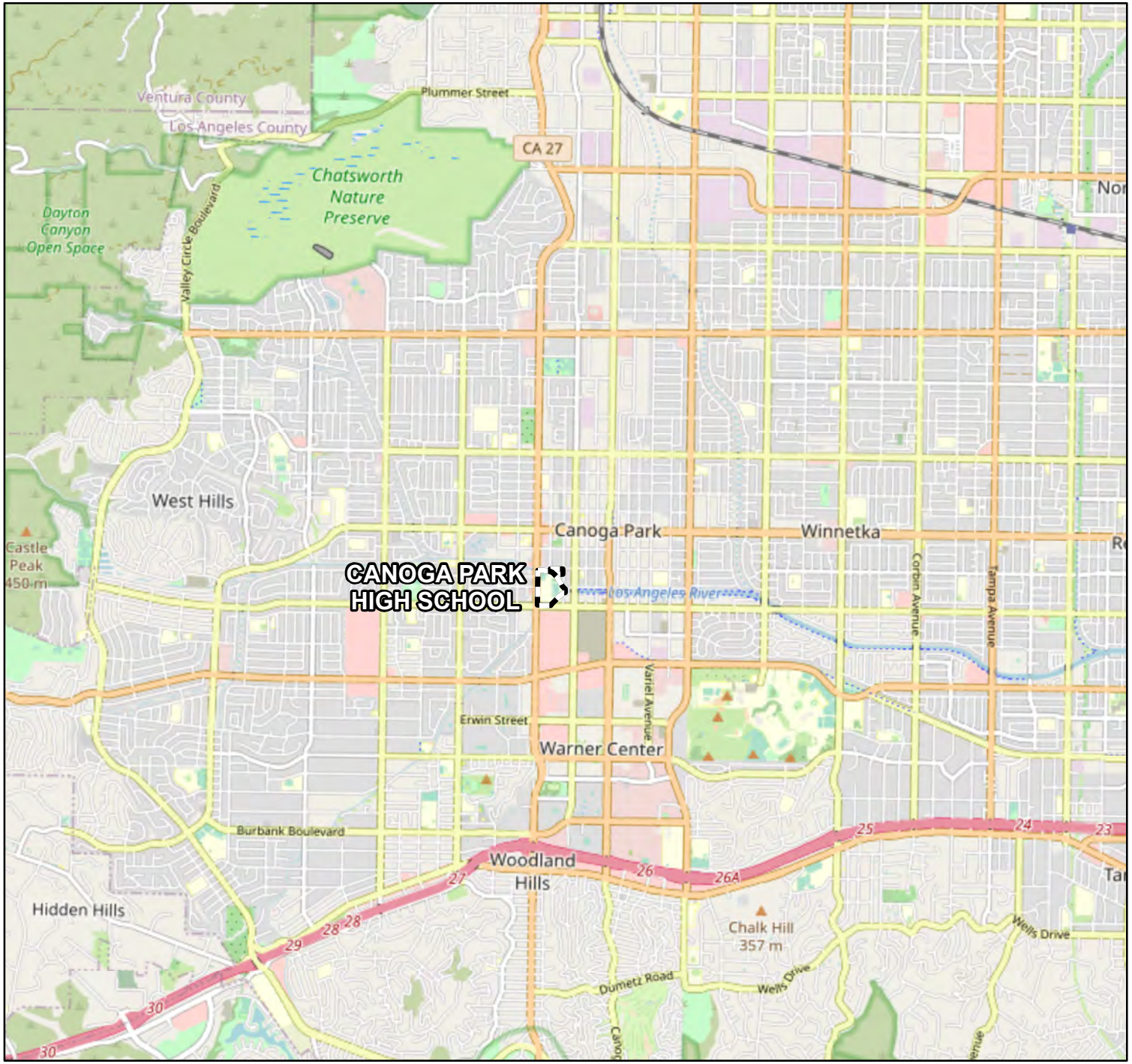

FIGURE 1

CANOGA PARK HIGH SCHOOL SITE MAP

Canoga Park High School
6850 CA-27
Canoga Park, California

Legend

School Property



PARSONS

Coordinate System: Image - Open Street
WGS 1984 UTM Zone 11N

Feet
2,500 0 2,500 5,000

N

PATH: F:\GISCADD\projects\LAUSD_CanogaPark\Mapfiles\LAUSD_CanogaPark_Sitemap.mxd Date: 3/29/2023



FIGURE 2

CANOGA PARK SENIOR HIGH SCHOOL AERIAL MAP

Canoga Park High School
6850 CA-27
Canoga Park, California

Legend

- Buildings to be Removed
- Portables to be Removed
- Owensmouth Continuation High School
- Development
- School Property

PARSONS

Coordinate System: Image - LA County, LARIAC4, 2013
WGS 1984 UTM Zone 11N

Feet
100 0 100 200

N

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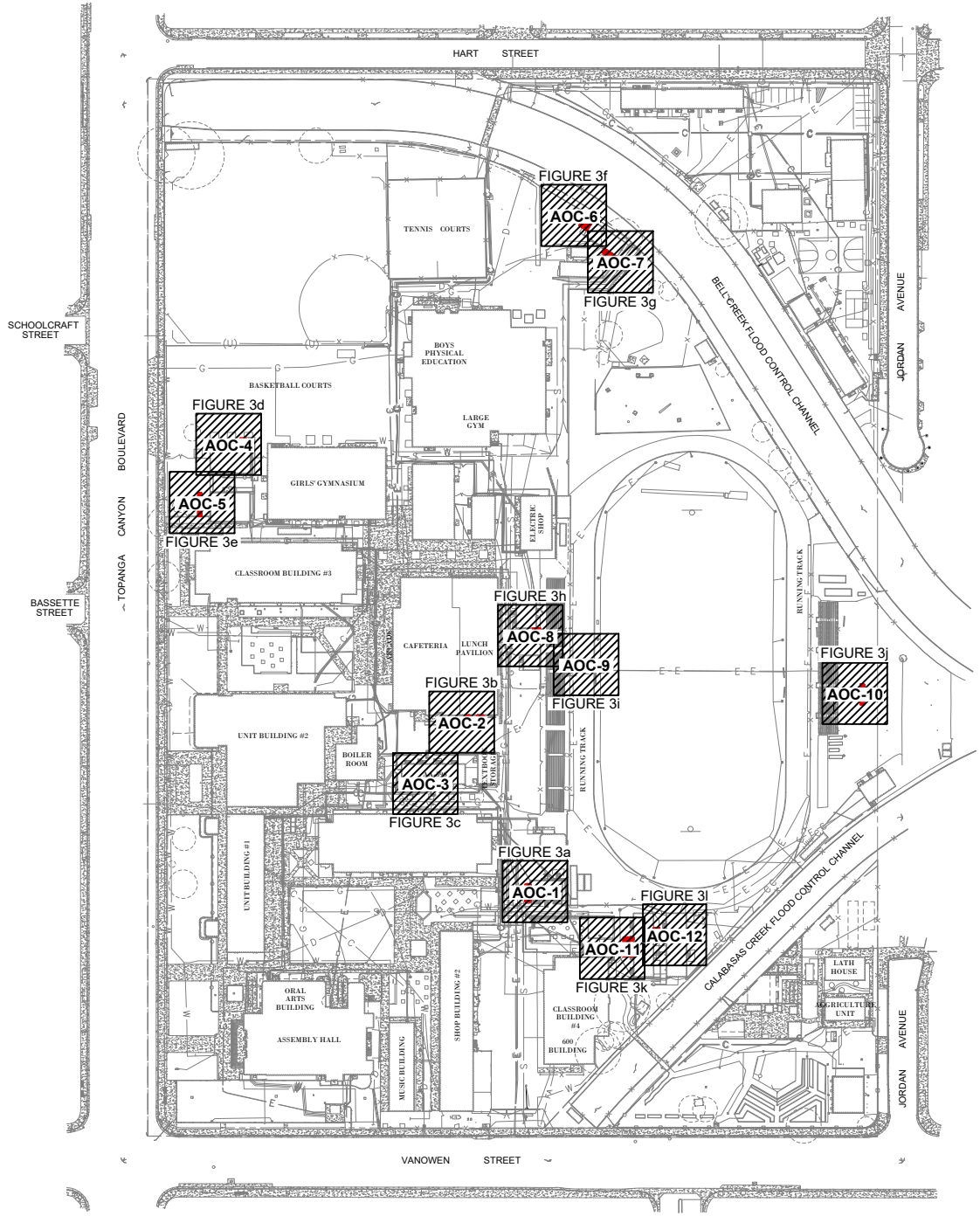


FIGURE 3

KEY MAP SHOWING STEP-OUT SAMPLING AREAS

Canoga Park High School
6850 CA-27
Canoga Park, California

PARSONS

0 100 200 Feet

N

453413-LAUSD_CANOGA_PARK-RAW.DWG A 9/5/23

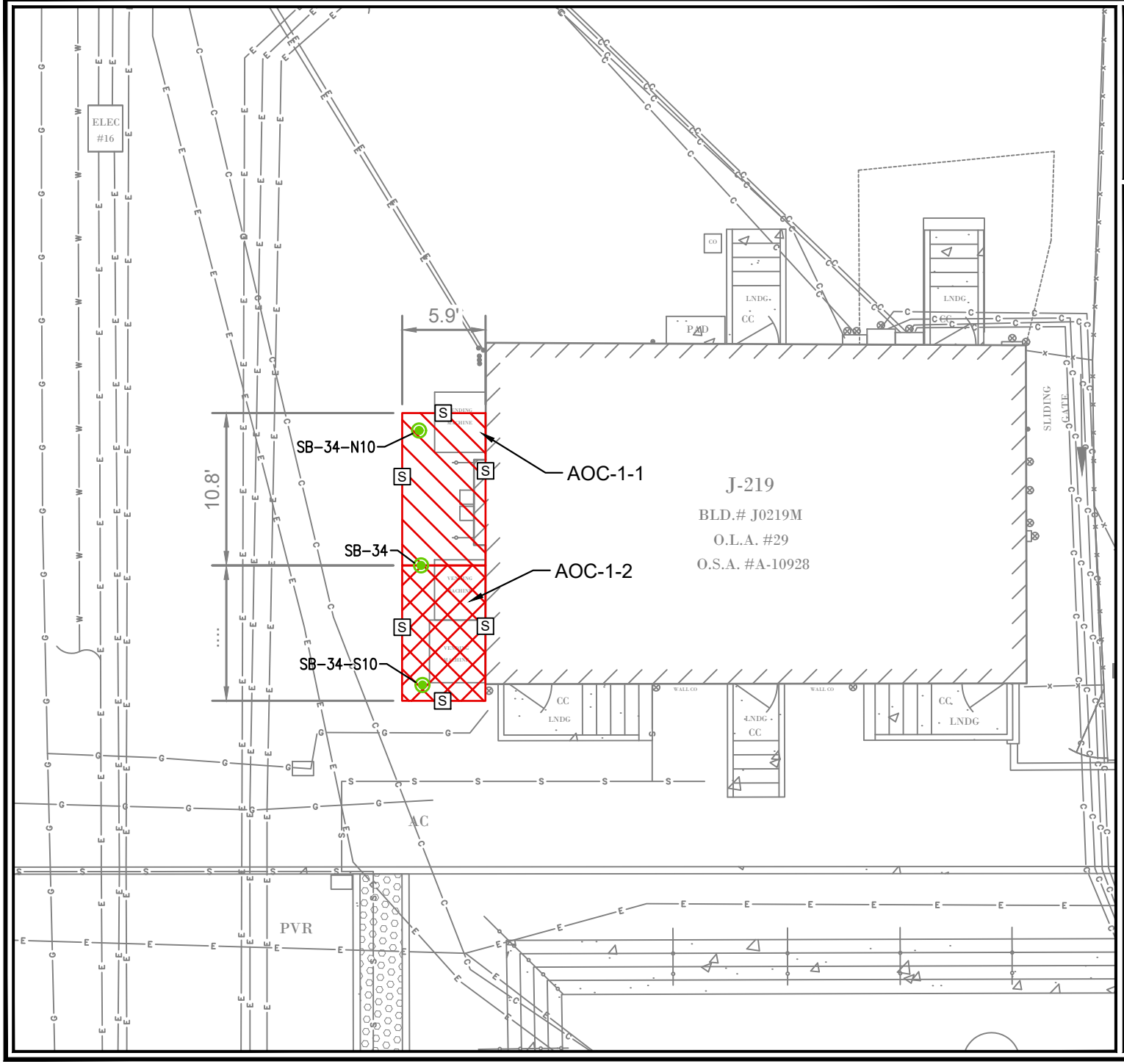


FIGURE 3a

AOC-1 ESTIMATED EXCAVATION LIMITS FOR ARSENIC IMPACTED SOIL

Canoga Park High School
6850 CA-27
Canoga Park, California

Legend

- Building Outline
- Soil Sample - Exceedance (Arsenic > 5.0 mg/L)
- 2.0-Foot Depth Excavation Area (Non-RCRA Hazardous Soil)
- 3.0-Foot Depth Excavation Area (Non-RCRA Hazardous Soil 0-2' bgs, Non-Hazardous Soil 2'-3' bgs)
- S — Proposed Sidewall Confirmation Sample Location

PARSONS

0 5 10 Feet

N

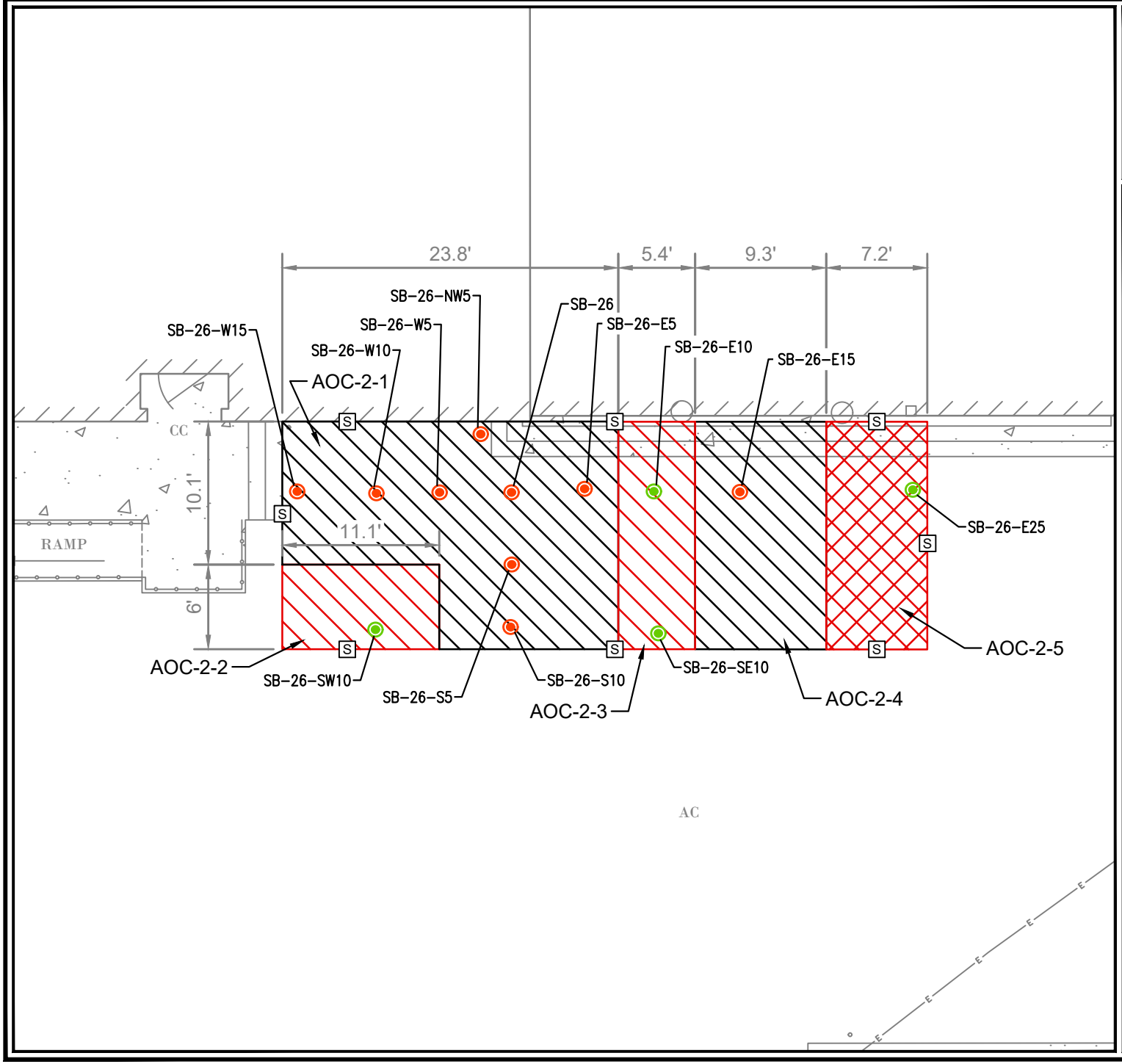


FIGURE 3b

AOC-2 ESTIMATED EXCAVATION LIMITS FOR ARSENIC IMPACTED SOIL

Canoga Park High School
6850 CA-27
Canoga Park, California

Legend

- Building Outline
- Soil Sample - No Exceedance
- Soil Sample - Exceedance (Arsenic > 12 mg/kg)
- Soil Sample - Exceedance (Arsenic STLC > 5.0 mg/L)
- 2.0-Foot Depth Excavation Area (Non-Hazardous Soil)
- 2.0-Foot Depth Excavation Area (Non-RCRA Hazardous Soil)
- 3.0-Foot Depth Excavation Area (Non-RCRA Hazardous Soil 0-2' bgs, Non-Hazardous Soil 2'-3' bgs)
- S — Proposed Sidewall Confirmation Sample Location

PARSONS

0 5 10 Feet

N

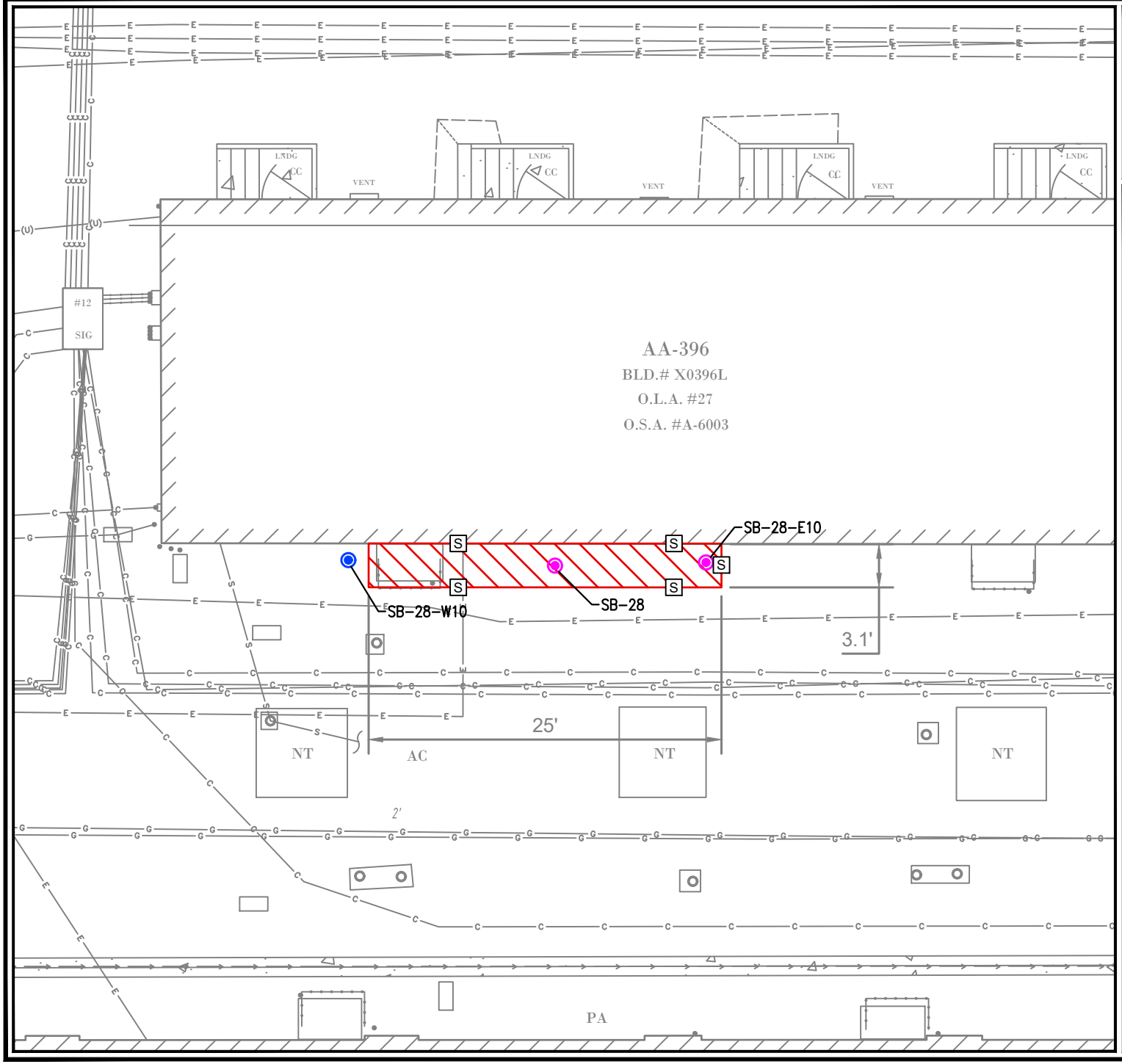


FIGURE 3c

AOC-3 ESTIMATED EXCAVATION LIMITS FOR ARSENIC IMPACTED SOIL

Canoga Park High School
6850 CA-27
Canoga Park, California

Legend

- Building Outline
- Soil Sample - No Exceedance
- Soil Sample - Exceedance (Lead STLC > 5.0 mg/L)
- 2.0-Foot Depth Excavation Area (Non-RCRA Hazardous Soil)
- [S] Proposed Sidewall Confirmation Sample Location

PARSONS

0 5 10 Feet

N

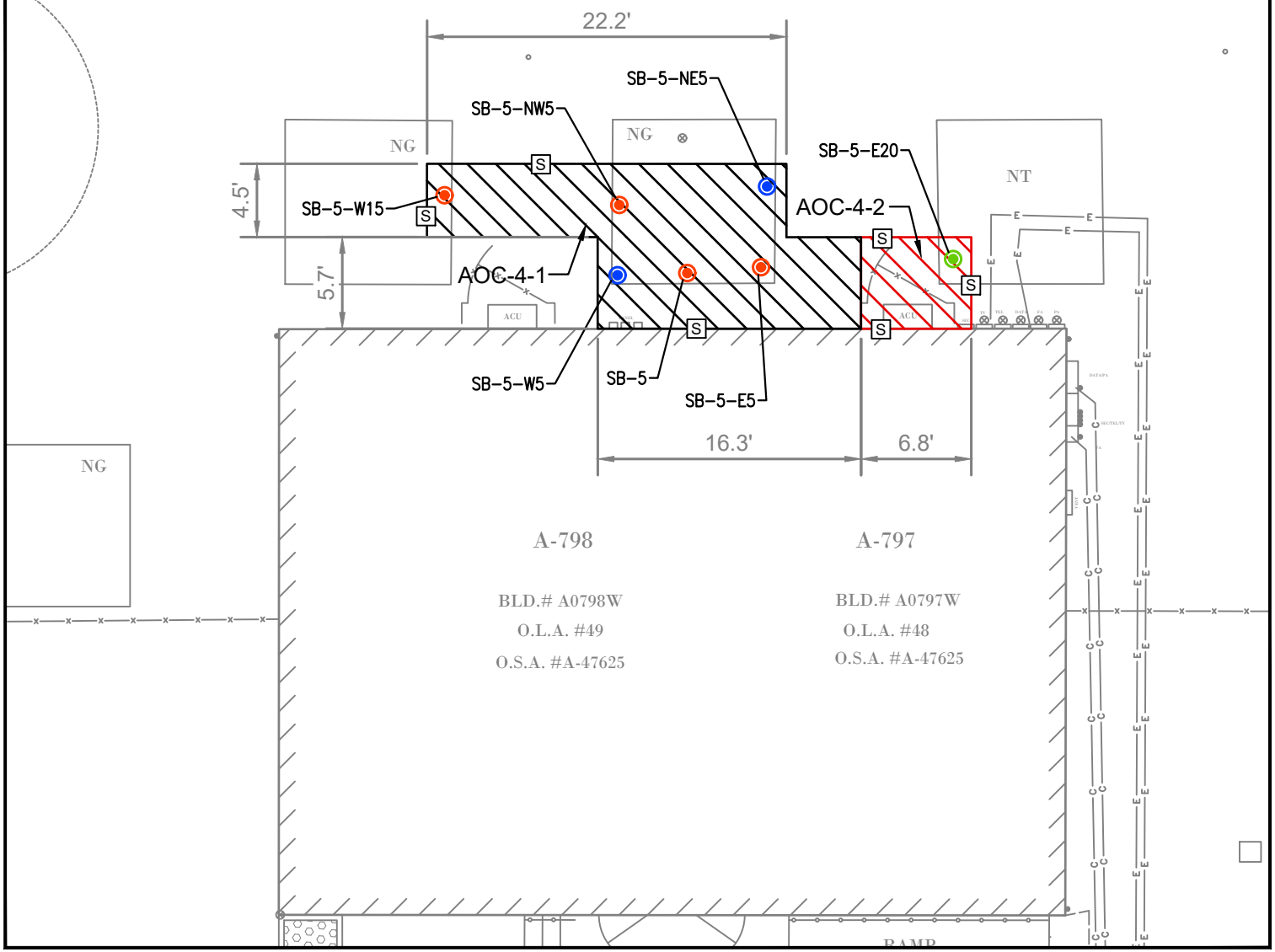


FIGURE 3d

AOC-4 ESTIMATED EXCAVATION LIMITS FOR ARSENIC IMPACTED SOIL

Canoga Park High School
6850 CA-27
Canoga Park, California

Legend

- Building Outline
- Soil Sample - No Exceedance
- Soil Sample - Exceedance (Arsenic > 12 mg/kg)
- Soil Sample - Exceedance (Arsenic STLC > 5.0 mg/L)
- 2.0-Foot Depth Excavation Area (Non-Hazardous Soil)
- 2.0-Foot Depth Excavation Area (Non-RCRA Hazardous Soil)
- [S] Proposed Sidewall Confirmation Sample Location

PARSONS

0 5 10 Feet

N

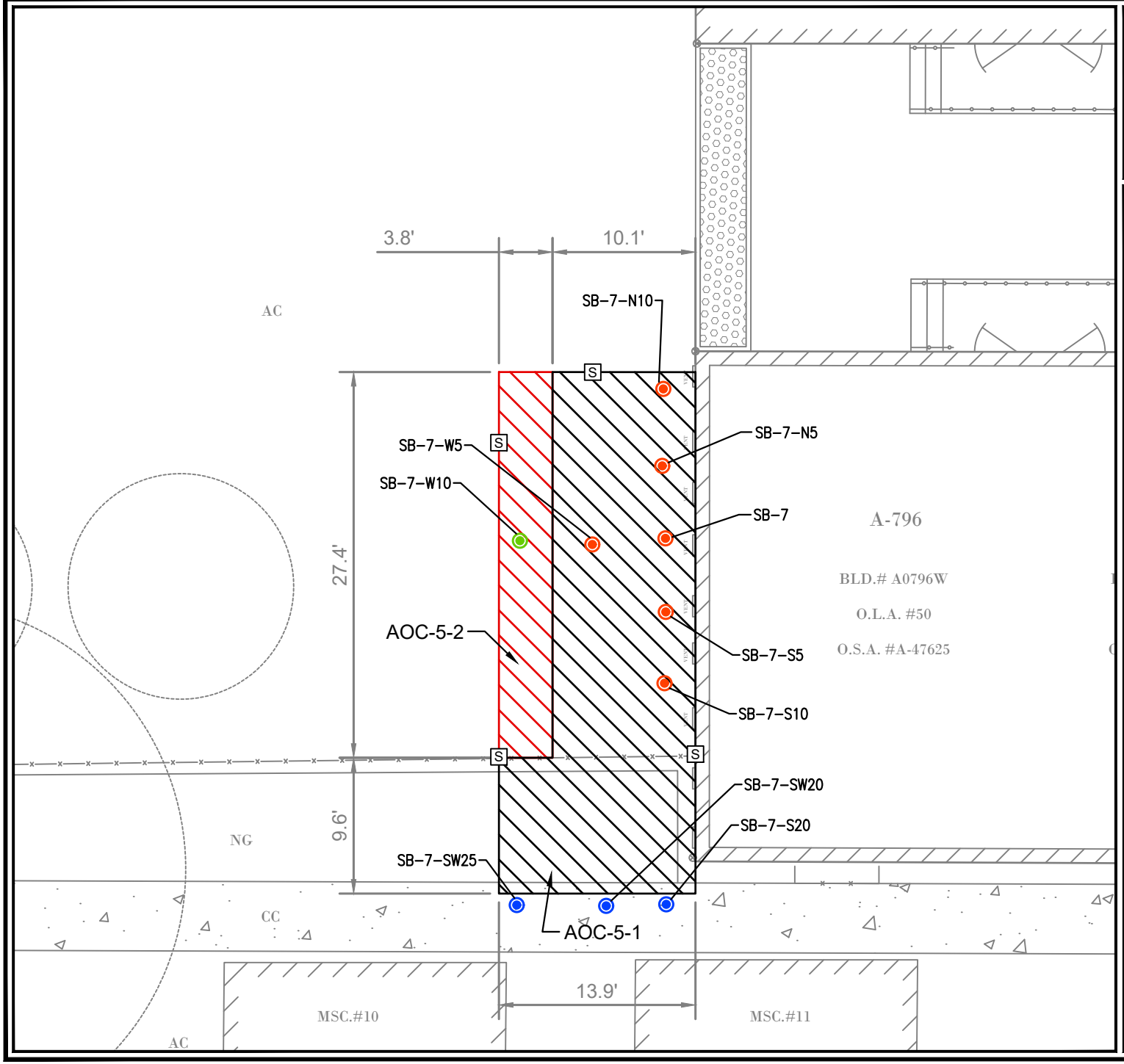


FIGURE 3e

AOC-5 ESTIMATED EXCAVATION LIMITS FOR ARSENIC IMPACTED SOIL

Canoga Park High School
6850 CA-27
Canoga Park, California

Legend

- Building Outline
- Soil Sample - No Exceedance
- Soil Sample - Exceedance (Arsenic > 12 mg/kg)
- Soil Sample - Exceedance (Arsenic STLC > 5.0 mg/L)
- 2.0-Foot Depth Excavation Area (Non-Hazardous Soil)
- 2.0-Foot Depth Excavation Area (Non-RCRA Hazardous Soil)
- [S] Proposed Sidewall Confirmation Sample Location

PARSONS

0 5 10 Feet

N

453413-LAUSD_CANOGA_PARK-RAW.DWG F 9/5/23

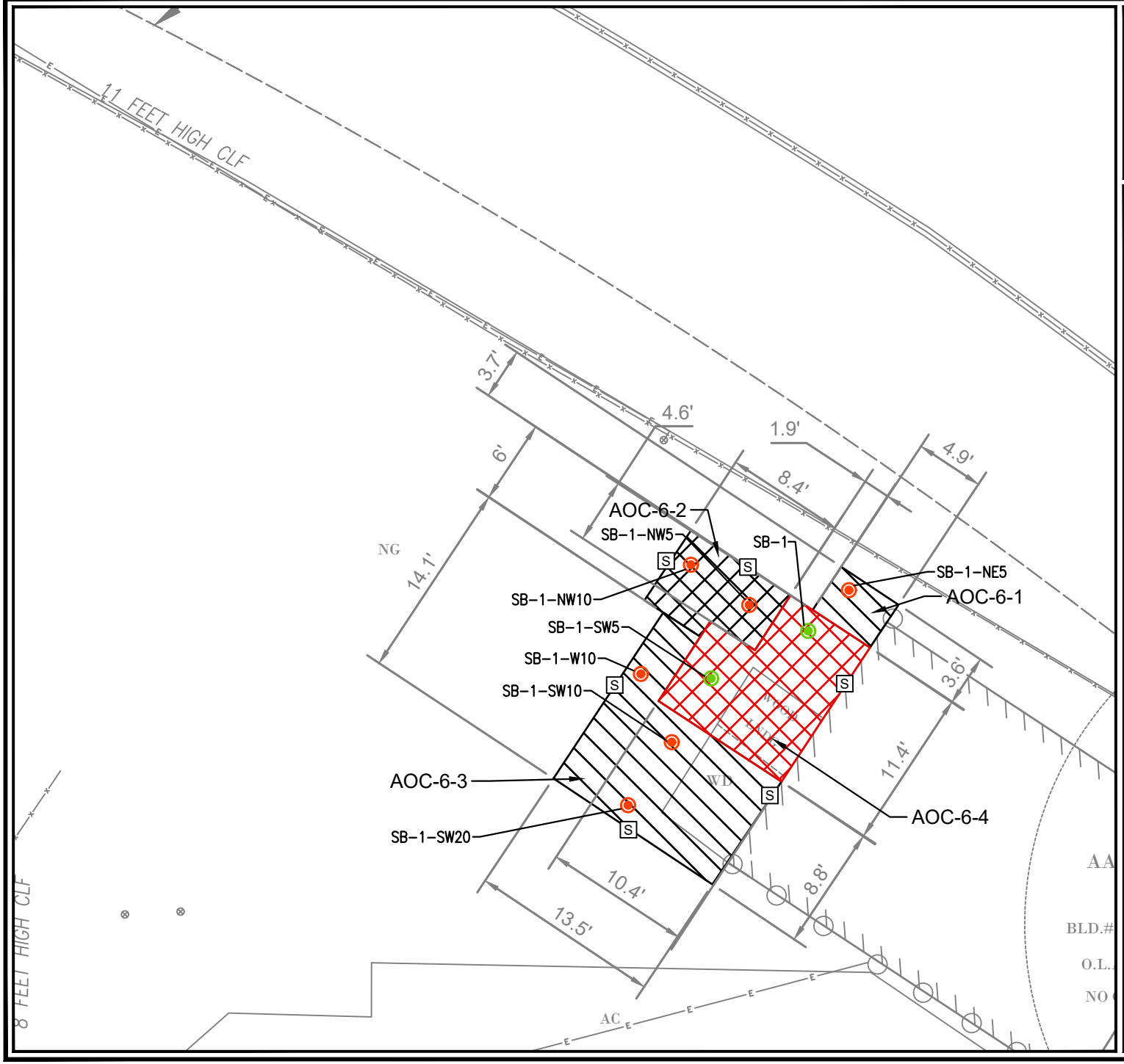


FIGURE 3f

AOC-6 ESTIMATED EXCAVATION LIMITS FOR ARSENIC IMPACTED SOIL

Canoga Park High School
6850 CA-27
Canoga Park, California

Legend

- Building Outline
- Soil Sample - Exceedance (Arsenic > 12 mg/kg)
- Soil Sample - Exceedance (Arsenic > 12 mg/kg) (Lead STLC > 5.0 mg/L)
- 2.0-Foot Depth Excavation Area (Non-Hazardous Soil)
- 3.0-Foot Depth Excavation Area (Non-Hazardous Soil)
- 3.0-Foot Depth Excavation Area (Non-RCRA Hazardous Soil 0-2' bgs, Non-Hazardous Soil 2'-3' bgs)
- [S] Proposed Sidewall Confirmation Sample Location

PARSONS

0 5 10 Feet

N

453413-LAUSD_CANOGA_PARK-RAW.DWG G 9/5/23

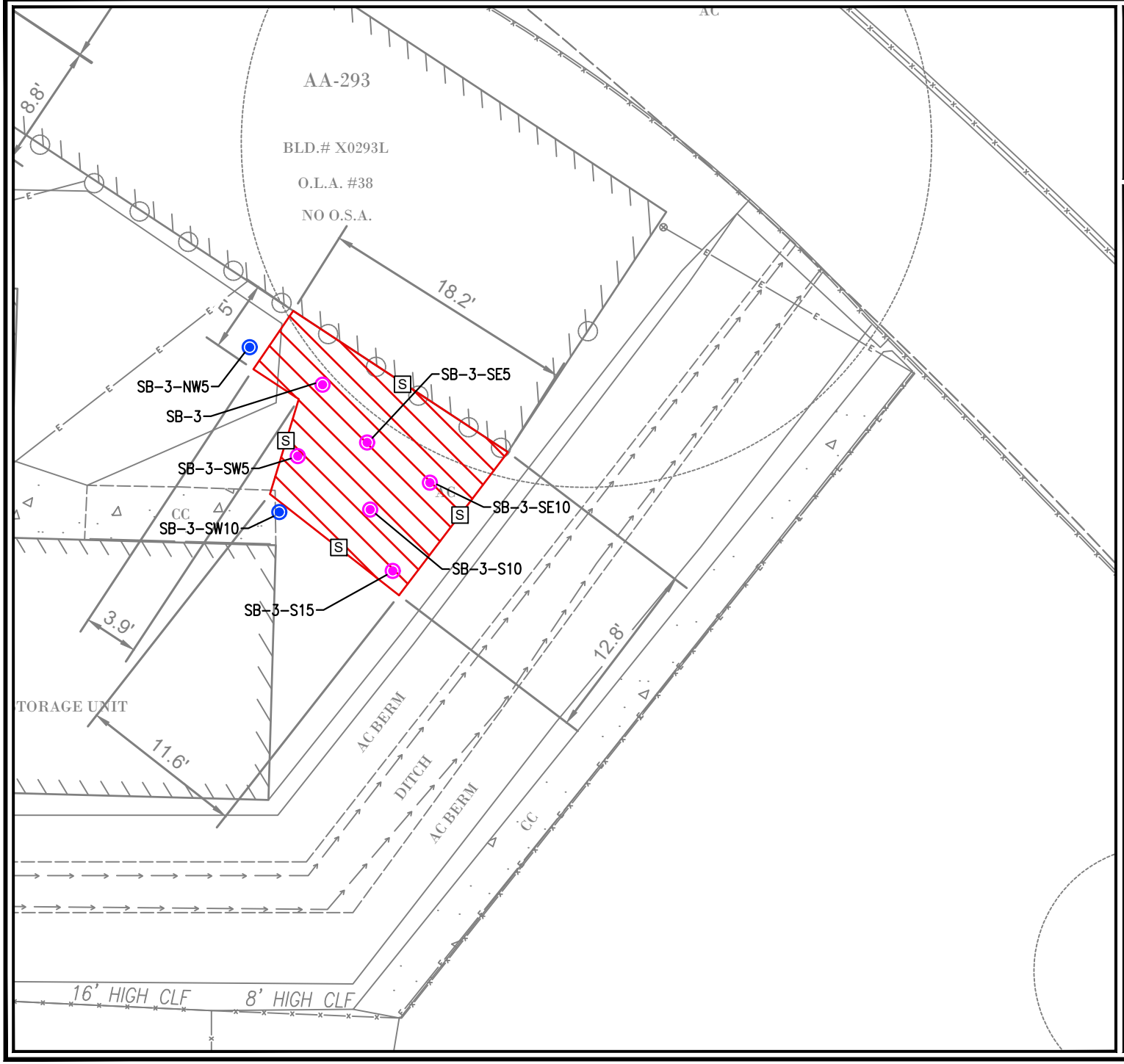


FIGURE 3g

AOC-7 ESTIMATED EXCAVATION LIMITS FOR ARSENIC IMPACTED SOIL

Canoga Park High School
6850 CA-27
Canoga Park, California

Legend

- Building Outline
- Soil Sample - No Exceedance
- Soil Sample - Exceedance (Lead STLC > 5.0 mg/L)
- 2.0-Foot Depth Excavation Area (Non-RCRA Hazardous Soil)
- [S] Proposed Sidewall Confirmation Sample Location

PARSONS

0 5 10 Feet

N

453413-LAUSD_CANOGA_PARK-RAW.DWG H 9/5/23

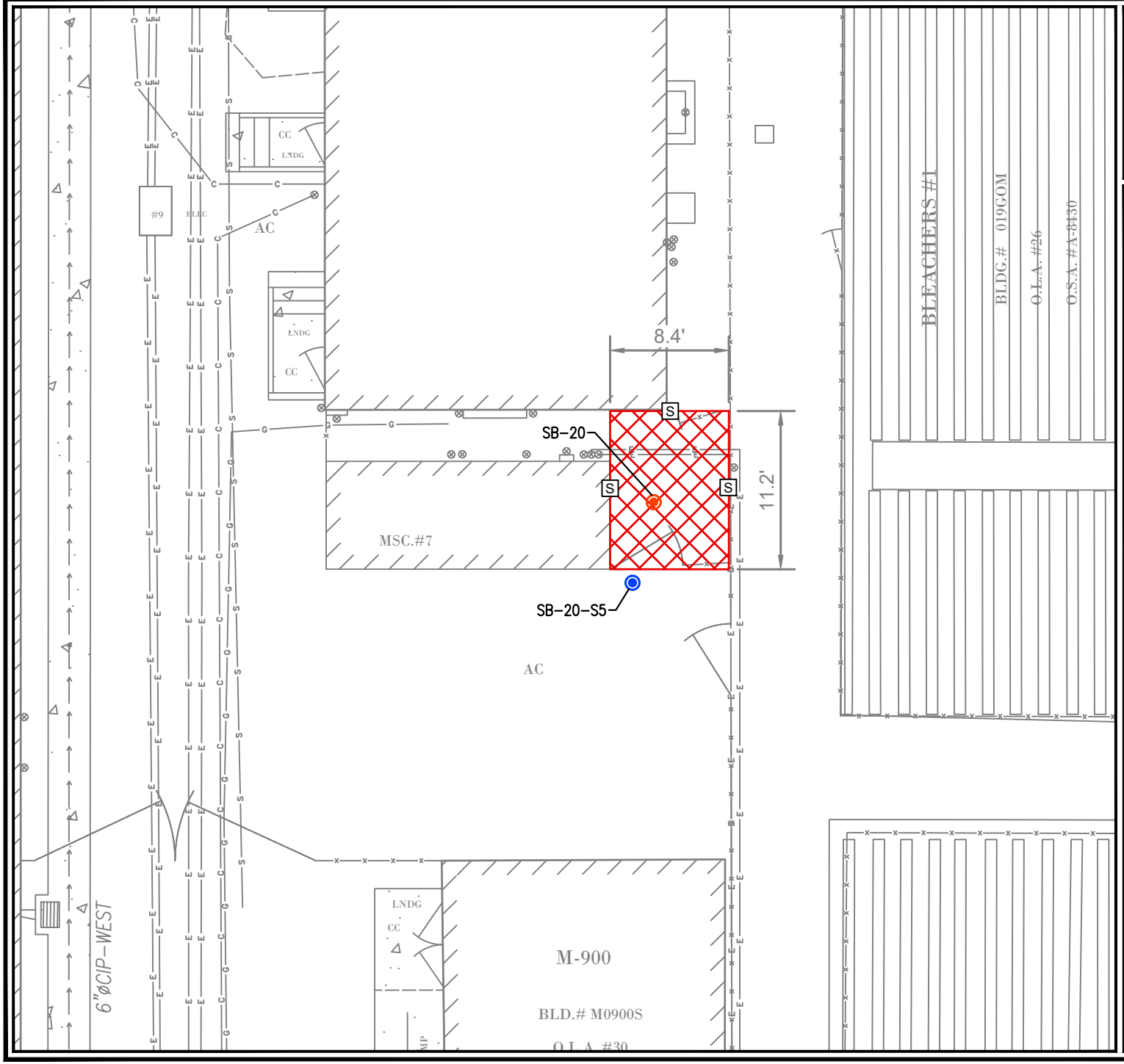


FIGURE 3h

AOC-8 ESTIMATED EXCAVATION LIMITS FOR ARSENIC IMPACTED SOIL

Canoga Park High School
6850 CA-27
Canoga Park, California

Legend

- Building Outline
- Soil Sample - No Exceedance
- Soil Sample - Exceedance (Arsenic > 12 mg/kg)
- 3.0-Foot Depth Excavation Area (Non-Hazardous Soil)
- [S] Proposed Sidewall Confirmation Sample Location

PARSONS

0 5 10 Feet

N

453413-LAUSD_CANOGA_PARK-RAW.DWG | 9/5/23

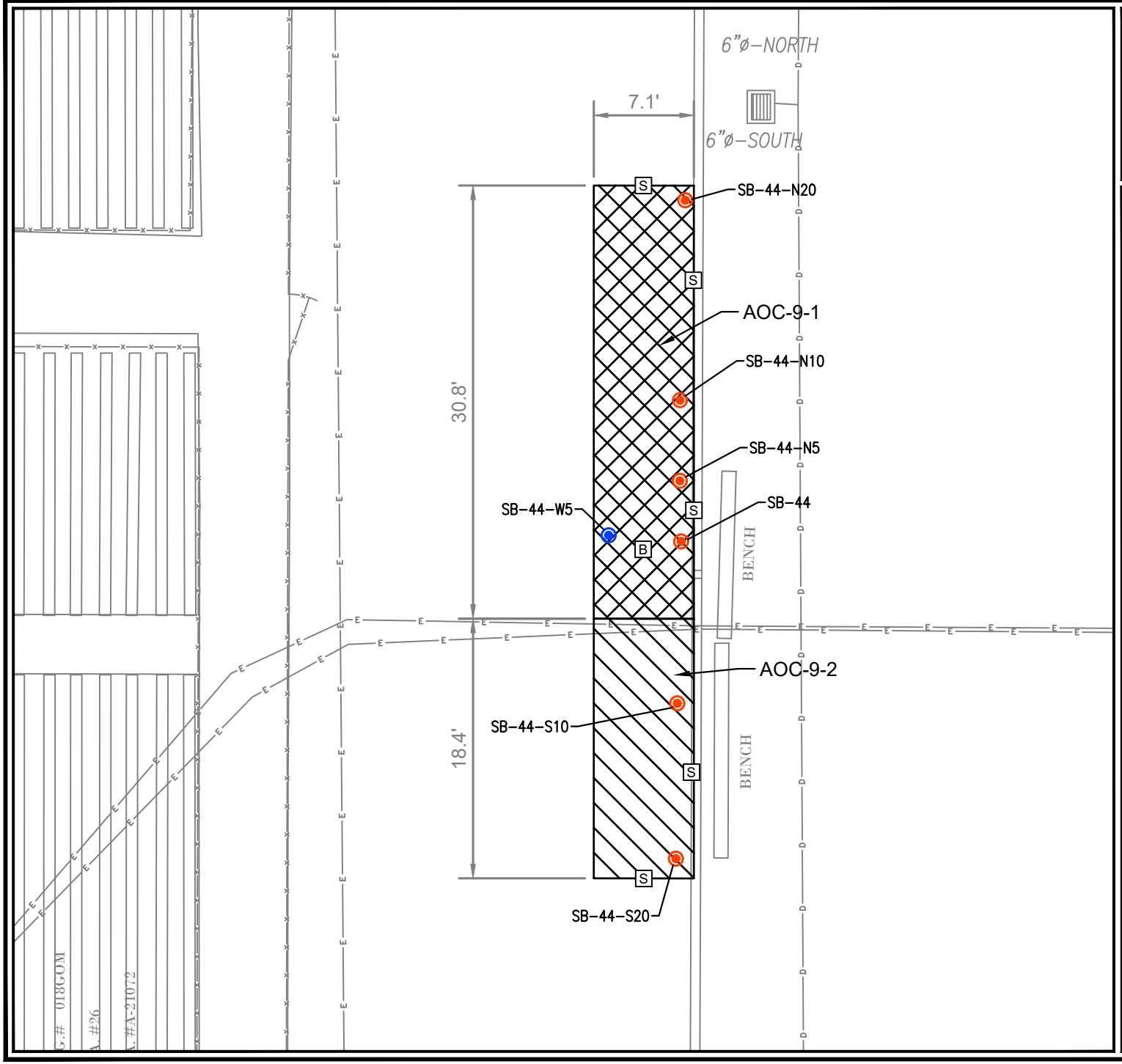


FIGURE 3i

AOC-9 ESTIMATED EXCAVATION LIMITS FOR ARSENIC IMPACTED SOIL

Canoga Park High School
6850 CA-27
Canoga Park, California

Legend

- Building Outline
- Soil Sample - No Exceedance
- Soil Sample - Exceedance (Arsenic > 12 mg/kg)
- 2.0-Foot Depth Excavation Area (Non-Hazardous Soil)
- 3.0-Foot Depth Excavation Area (Non-Hazardous Soil)
- S — Proposed Sidewall Confirmation Sample Location
- B — Proposed Bottom Confirmation Sample Location

PARSONS

0 5 10 Feet

N

453413-LAUSD_CANOGA_PARK-RAW.DWG J 9/5/23

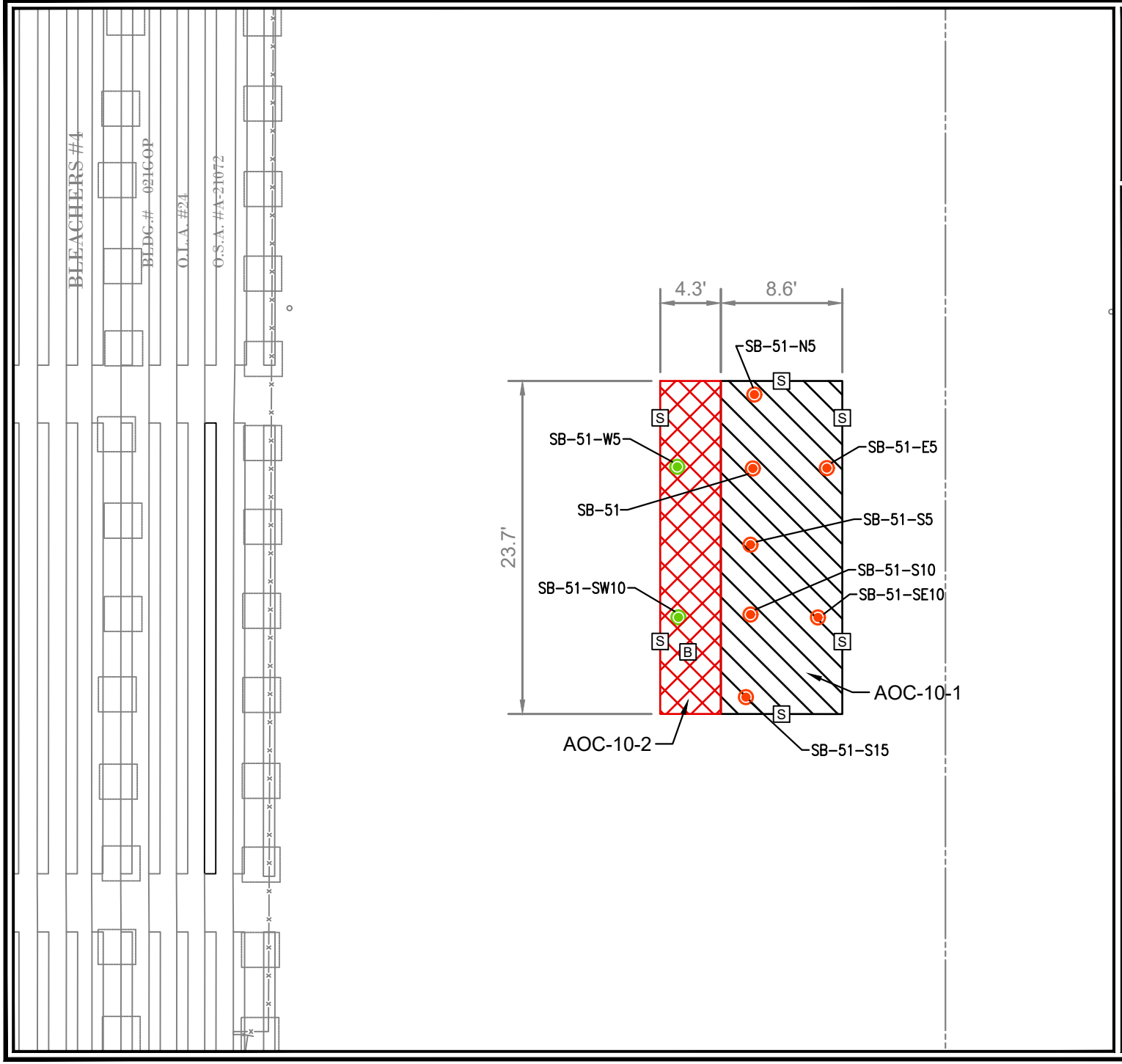


FIGURE 3j

AOC-10 ESTIMATED EXCAVATION LIMITS FOR ARSENIC IMPACTED SOIL

Canoga Park High School
6850 CA-27
Canoga Park, California

Legend

- Building Outline
- Soil Sample - Exceedance (Arsenic > 12 mg/kg)
- Soil Sample - Exceedance (Arsenic STLC > 5.0 mg/L)
- 2.0-Foot Depth Excavation Area (Non-Hazardous Soil)
- 3.0-Foot Depth Excavation Area (Non-RCRA Hazardous Soil)
- [S] Proposed Sidewall Confirmation Sample Location
- [B] Proposed Bottom Confirmation Sample Location

PARSONS

0 5 10 Feet

N

453413-LAUSD_CANOGA_PARK-RAW.DWG K 9/5/23

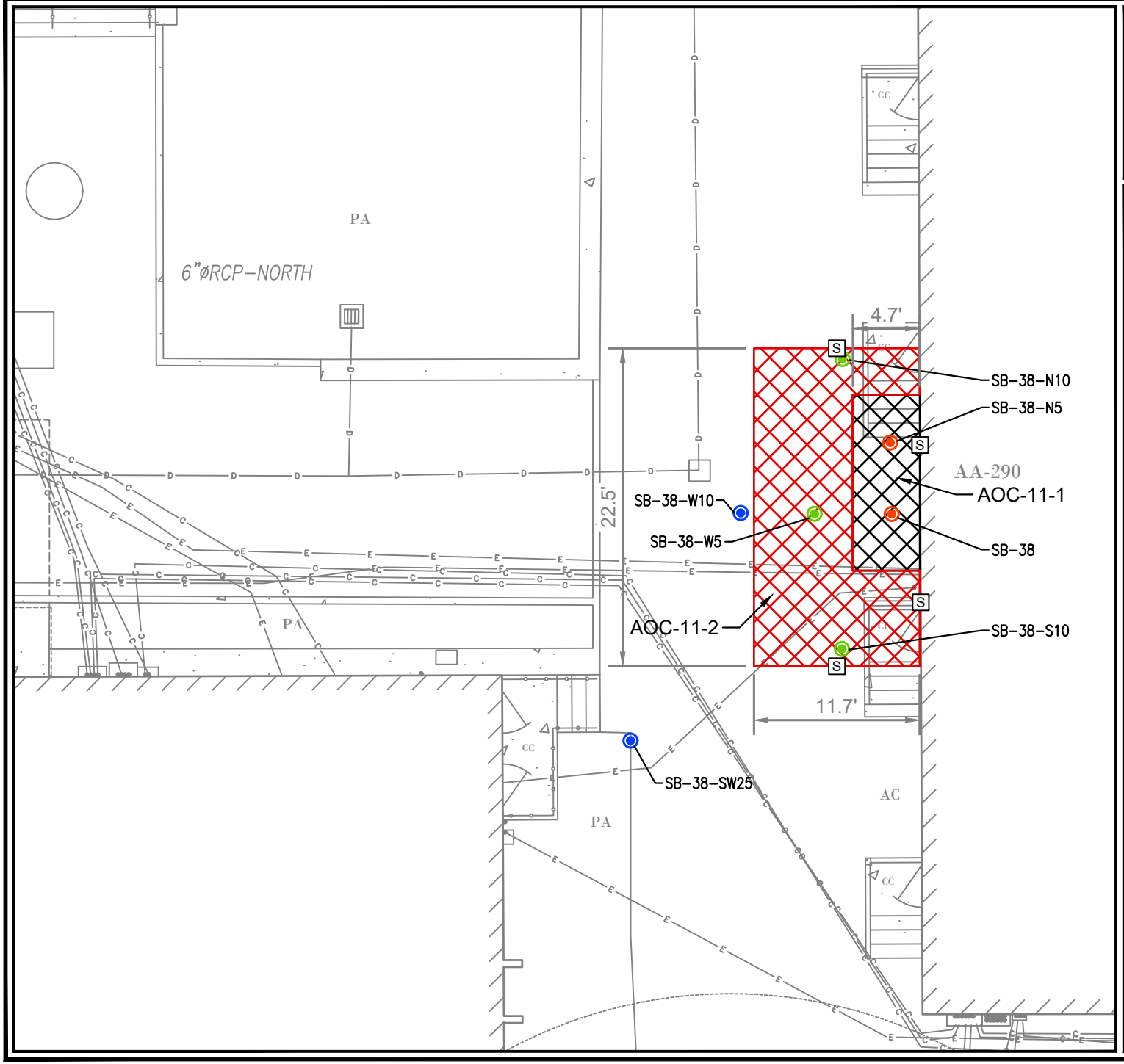


FIGURE 3k

AOC-11 ESTIMATED EXCAVATION LIMITS FOR ARSENIC IMPACTED SOIL

Canoga Park High School
6850 CA-27
Canoga Park, California

Legend

- Building Outline
- Soil Sample - No Exceedance
- Soil Sample - Exceedance (Arsenic > 12 mg/kg)
- Soil Sample - Exceedance (Arsenic STLC > 5.0 mg/L)
- 3.0-Foot Depth Excavation Area (Non-Hazardous Soil)
- 3.0-Foot Depth Excavation Area (Non-RCRA Hazardous Soil 0-2' bgs, Non-Hazardous Soil 2'-3' bgs)
- S — Proposed Sidewall Confirmation Sample Location

PARSONS

0 5 10 Feet

N

453413-LAUSD_CANOGA_PARK-RAW.DWG L 9/5/23

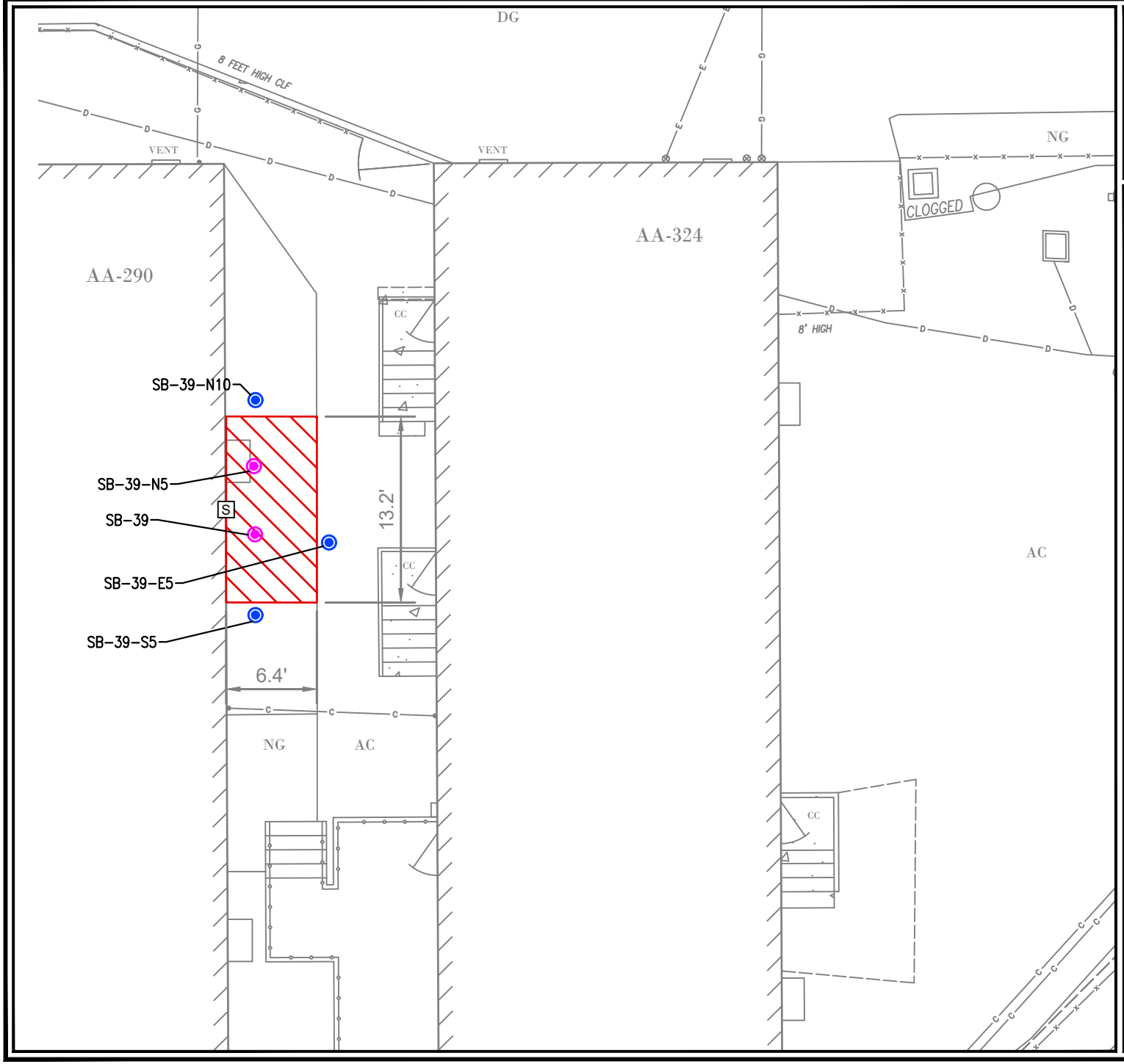


FIGURE 3I

AOC-12 ESTIMATED EXCAVATION LIMITS FOR ARSENIC IMPACTED SOIL

Canoga Park High School
6850 CA-27
Canoga Park, California

Legend

- Building Outline
- Soil Sample - No Exceedance
- Soil Sample - Exceedance (Lead STLC > 5.0 mg/L)
- 2.0-Foot Depth Excavation Area (Non-RCRA Hazardous Soil)
- [S] Proposed Sidewall Confirmation Sample Location

PARSONS

0 5 10 Feet

N

APPENDICES

APPENDIX A

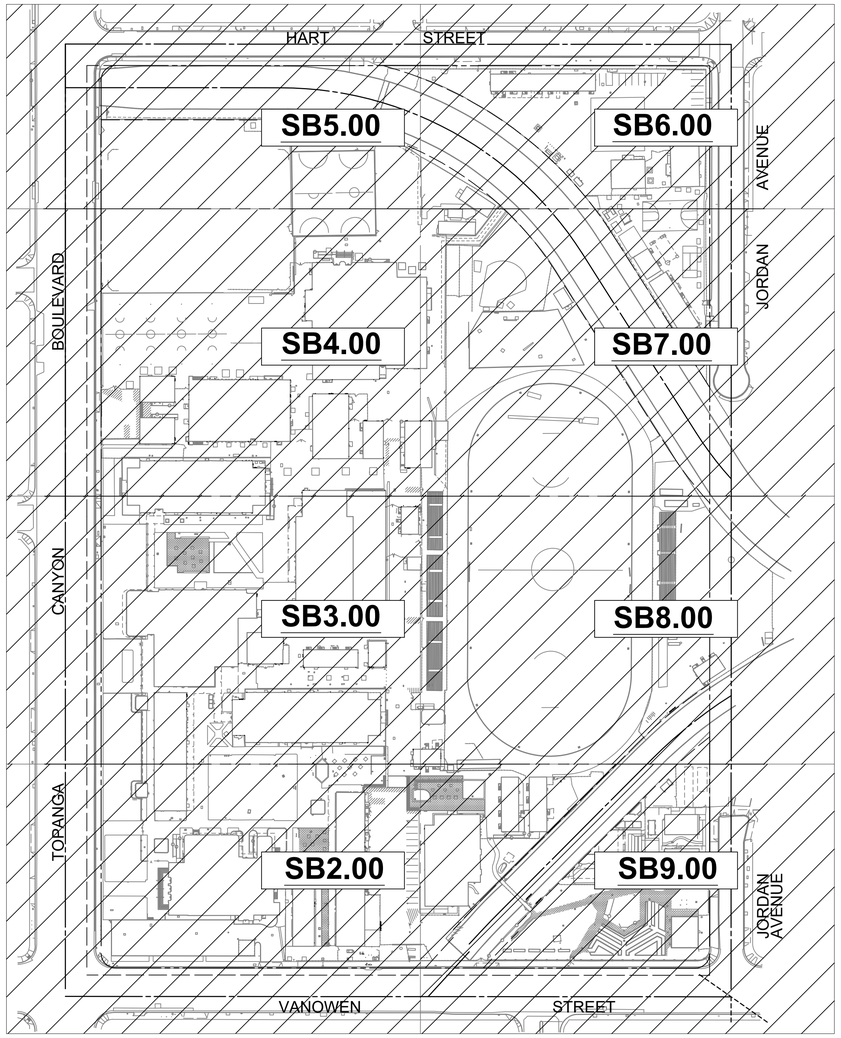
SURVEY

SURVEYED LOCATIONS
LAUSD - CANOGA PARK SENIOR HIGH SCHOOL

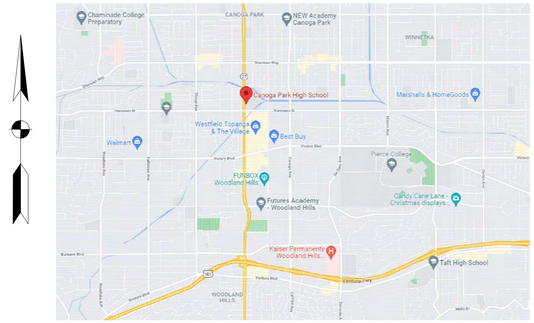
SHEET	SOIL BORING NUMBER	EASTING	NORTHING	ELEVATION	DESCRIPTION
SB9.00	SOIL BORING-1	5279.158056	5635.493523	796.83	SB-39-N10=NG
SB9.00	SOIL BORING-2	5274.469784	5635.386767	796.88	SB-39-N5=NG
SB9.00	SOIL BORING-3	5269.633138	5635.457129	796.96	SB-39-NG
SB9.00	SOIL BORING-4	5269.055172	5640.71125	797.13	SB-39-E5=AC
SB9.00	SOIL BORING-5	5263.902611	5635.493809	796.89	SB-39-S5=NG
SB8.00	SOIL BORING-6	5551.555108	5881.430152	795.97	SB-51-SW10=AC
SB8.00	SOIL BORING-7	5562.250179	5881.343584	795.93	SB-51-W5=AC
SB8.00	SOIL BORING-8	5567.381012	5886.823059	795.82	SB-51-N5=AC
SB8.00	SOIL BORING-9	5562.131904	5886.708068	795.81	SB-51=AC
SB8.00	SOIL BORING-10	5556.714844	5886.541481	795.83	SB-51-S5=AC
SB8.00	SOIL BORING-11	5551.756881	5886.545756	795.85	SB-51-S10=AC
SB8.00	SOIL BORING-12	5545.888281	5886.217396	795.93	SB-51-S15=AC
SB8.00	SOIL BORING-13	5551.553247	5891.335875	795.77	SB-51-SE10=AC
SB8.00	SOIL BORING-14	5562.159027	5891.965929	795.68	SB-51-E5=AC
SB9.00	SOIL BORING-15	5266.067318	5603.678985	797.04	SP-38-N10=AC
SB9.00	SOIL BORING-16	5260.132904	5607.057843	797.13	SP-38-N5=AC
SB9.00	SOIL BORING-17	5255.070561	5607.161777	797.16	SB-38=AC
SB9.00	SOIL BORING-18	5255.084087	5601.689405	797.13	SB-38-W5=AC
SB9.00	SOIL BORING-19	5255.135586	5596.459936	797.25	SB-38-W10=AC
SB9.00	SOIL BORING-20	5245.49973	5603.642168	797.35	SB-38-S10=AC
SB9.00	SOIL BORING-21	5238.999265	5588.649354	797.40	SB-38-SW25=NG
SB8.00	SOIL BORING-22	5591.947346	5556.186796	796.18	SB-44-W5=DG
SB8.00	SOIL BORING-23	5615.741293	5561.631197	795.86	SB-44-N20=DG
SB8.00	SOIL BORING-24	5601.54237	5561.255297	796.09	SB-44-N10=DG
SB8.00	SOIL BORING-25	5595.820702	5561.24979	796.05	SB-44-N5=DG
SB8.00	SOIL BORING-26	5591.5137	5561.341955	796.09	SB-44=DG
SB8.00	SOIL BORING-27	5580.015712	5561.068101	796.12	SB-44-S10=DG
SB8.00	SOIL BORING-28	5568.983502	5560.966771	796.10	SB-44-S20=DG
SB3.00	SOIL BORING-29	5328.745631	5481.589695	797.79	SB-34-N10=AC
SB3.00	SOIL BORING-30	5319.178286	5481.728434	797.72	SB-34=AC
SB2.00	SOIL BORING-31	5310.696004	5481.825909	797.76	SB-34-S10=AC
SB3.00	SOIL BORING-32	5318.90941	5477.639089	797.77	UC=AC
SB3.00	SOIL BORING-33	5448.263461	5345.847389	798.25	SB-28-W10=AC
SB3.00	SOIL BORING-34	5447.872279	5360.505584	798.20	SB-28=AC
SB3.00	SOIL BORING-35	5448.099284	5371.214255	798.26	SB-28-E10=AC
SB3.00	SOIL BORING-36	5526.582012	5429.262971	797.61	SB-26-E25=AC
SB3.00	SOIL BORING-37	5526.426027	5417.004634	797.64	SB-26-E15=AC
SB3.00	SOIL BORING-38	5526.470246	5410.897013	797.62	SB-26-E10=AC
SB3.00	SOIL BORING-39	5526.652216	5405.975782	797.65	SB-26-E5=AC
SB3.00	SOIL BORING-40	5526.405896	5400.796837	797.69	SB-26=AC
SB3.00	SOIL BORING-41	5526.404329	5395.693612	797.77	SB-26-W5=AC

SURVEYED LOCATIONS
LAUSD - CANOGA PARK SENIOR HIGH SCHOOL

SHEET	SOIL BORING NUMBER	EASTING	NORTHING	ELEVATION	DESCRIPTION
SB3.00	SOIL BORING-42	5526.32642	5391.213132	797.81	SB-26-W10=AC
SB3.00	SOIL BORING-43	5526.469776	5385.609178	797.81	SB-26-W15=AC
SB3.00	SOIL BORING-44	5521.279649	5400.823583	797.68	SB-26-S5=AC
SB3.00	SOIL BORING-45	5516.672301	5391.153962	797.75	SB-26-SW10=AC
SB3.00	SOIL BORING-46	5516.846942	5400.730687	797.64	SB-26-S10=AC
SB3.00	SOIL BORING-47	5516.395857	5411.210628	797.52	SB-26-SE10=AC
SB3.00	SOIL BORING-48	5530.529367	5398.620686	797.74	SB-26-NW5=AC
SB8.00	SOIL BORING-49	5628.817215	5492.563863	797.10	SB-20=AC
SB8.00	SOIL BORING-50	5623.095803	5491.062887	797.15	SB-20-S5=AC
SB4.00	SOIL BORING-51	5758.850716	5091.498379	797.85	SB-7-SW25=AC
SB4.00	SOIL BORING-52	5758.791734	5097.840149	797.87	SB-7-SW20=AC
SB4.00	SOIL BORING-53	5758.900024	5102.092568	797.90	SB-7-S20=AC
SB4.00	SOIL BORING-54	5795.453963	5101.889514	797.82	SB-7-N10=AC
SB4.00	SOIL BORING-55	5789.992705	5101.815331	797.89	SB-7-N5=AC
SB4.00	SOIL BORING-56	5784.856287	5102.038745	797.83	SB-7=AC
SB4.00	SOIL BORING-57	5779.63732	5102.059612	797.83	SB-7-S5=AC
SB4.00	SOIL BORING-58	5774.577608	5101.974859	797.80	SB-7-S10=AC
SB4.00	SOIL BORING-59	5784.41802	5096.855942	797.82	SB-7-W5=AC
SB4.00	SOIL BORING-60	5784.683349	5091.723183	797.77	SB-7-W10=AC
SB4.00	SOIL BORING-61	5860.493989	5145.863164	797.46	SB-5-E20=NG
SB4.00	SOIL BORING-62	5859.983031	5133.989866	797.36	SB-5-E5=NG
SB4.00	SOIL BORING-63	5859.625146	5129.428832	797.41	SB-5=NG
SB4.00	SOIL BORING-64	5859.493946	5125.116245	797.36	SB-5-W5=NG
SB4.00	SOIL BORING-65	5864.439334	5114.432056	797.39	SB-5-W15=NG
SB4.00	SOIL BORING-66	5863.835985	5125.224556	797.38	SB-5-NW5=NG
SB4.00	SOIL BORING-67	5864.978654	5134.358864	797.43	SB-5-NE5=NG
SB6.00	SOIL BORING-68	6123.687757	5558.352642	796.21	SB-1-NE5=NG
SB6.00	SOIL BORING-69	6120.79427	5555.469876	796.25	SB-1=NG
SB6.00	SOIL BORING-70	6122.633264	5551.286761	796.25	SB-1-NW5=NG
SB6.00	SOIL BORING-71	6125.482887	5547.150973	796.11	SB-1-NW10=NG
SB6.00	SOIL BORING-72	6117.743402	5543.606751	796.35	SB-1-W10=NG
SB6.00	SOIL BORING-73	6117.427146	5548.584362	796.19	SB-1-SW5=NG
SB6.00	SOIL BORING-74	6112.897313	5545.798966	796.14	SB-1-SW10=NG
SB6.00	SOIL BORING-75	6108.438266	5542.693682	796.20	SB-1-SW20=NG
SB7.00	SOIL BORING-76	6085.508708	5571.411795	796.25	SB-3-NW5=AC
SB7.00	SOIL BORING-77	6082.846663	5576.582358	796.16	SB-3=NG
SB7.00	SOIL BORING-78	6077.777546	5574.820731	796.05	SB-3-SW5=NG
SB7.00	SOIL BORING-79	6073.810872	5573.512196	795.97	SB-3-SW10=NG
SB7.00	SOIL BORING-80	6069.636505	5581.556707	795.80	SB-3-S15=NG
SB7.00	SOIL BORING-81	6073.988784	5579.953643	795.89	SB-3-S10=NG
SB7.00	SOIL BORING-82	6075.896475	5584.194087	795.87	SB-3-SE10=NG
SB7.00	SOIL BORING-83	6078.744003	5579.742509	795.97	SB-3-SE5=NG



KEYMAP:
SCALE: 1" = 100'



VICINITY MAP
NOT TO SCALE

BASIS OF BEARING

THE HORIZONTAL BASIS OF BEARING FOR THIS TOPOGRAPHIC MAP IS THE CENTERLINE OF TOPANGA CANYON BOULEVARD (FORMERLY TOPANGA CANYON AVENUE) BEING "NORTH" AS SHOWN ON TRACT NO. 9267, MB. 136/98-99.

BENCHMARK

CITY OF LOS ANGELES BENCHMARK NO. 06-06688
DESCRIPTION: WIRE SPK IN N CURB VANOWEN ST; 0.4FT E OF C
CURB RETURN E OF TOPANGA CANYON BLVD
ELEVATION = 799.284' (NAVD 1988) YEAR 2000

LAUSD BENCHMARK:
CHIS "X", N ARCADE WEST SIDE OF CAFETERIA BUILDING #31'
PLUS OR MINUS E/O S AND E LINES PROD.
BLDG. # "E" ELEVATION = 796.02

ESTABLISHED BENCHMARK:
N ARCADE WEST SIDE OF CAFETERIA
ELEVATION = 798.75' IS BASED ON CITY OF LOS ANGELES BENCHMARK.

CONVERSION TO LAUSD BENCH MARK
LAUSD BM = 798.75 - 2.73 = 796.02

TOPOGRAPHIC SURVEY NOTES:

1. THIS MAP REPRESENTS A TOPOGRAPHIC SURVEY OF VISIBLE FIELD CONDITIONS AT THE TIME OF THIS SURVEY.
2. AS-BUILTS PROVIDED BY LAUSD ARE FOR REFERENCE ONLY.
3. NO ADDITIONAL SURVEY AND GPR THAT WAS RECENTLY REQUESTED IN THIS DRAWING.

LEGEND

CEMENT CONCRETE
CENTERLINE
EASEMENT
PROPERTY LINE
CHAIN LINK FENCE
EXISTING CONTOUR LINE (150.00)
FLOWLINE
RIDGE, GRADE BREAK
WROUGHT IRON FENCE
PAINT STRIPING
TREE DRIPLINE
OVERHEAD: ROOF, STRUCTURE
TRUNCATED DOME
LAUSD AS-BUILT: COMMUNICATION
LAUSD AS-BUILT: ELECTRIC
LAUSD AS-BUILT: FIRE ALARM
LAUSD AS-BUILT: GAS
LAUSD AS-BUILT: IRRIGATION
LAUSD AS-BUILT: SEWER
LAUSD AS-BUILT: STORM DRAIN
LAUSD AS-BUILT: WATER

SYMBOLS

BOLLARD
GAS VALVE
FIRE HYDRANT
LIGHT POST
LIGHT STANDARD
POWER POLE
SEWER MANHOLE
STORM DRAIN MANHOLE
STREET SIGN, SIGN POST
SURVEY WELL MONUMENT
TRAFFIC SIGNAL
TREE
VALVE, DOWNSPOUT, PIPE, CONDUIT
WATER VALVE
YARD BOX

ABBREVIATIONS

ACU	AIR CONDITIONING UNIT
AC	ASPHALT CONCRETE
BF	BACKFLOW
BFP	BACKFLOW PREVENTER
BW	BACK OF WALK
BBP	BASKETBALL POST
BM	BENCHMARK
BOL	BOLLARD
BOT	BOTTOM
BBS	BOTTOM OF BOTTOM STEP
BRAMP/BR	BOTTOM OF RAMP
BX	BOTTOM OF "X"
BLDR	BOULDER
BRK	BRICK
BLDG	BUILDING
CIP	CAST IRON PIPE
CB	CATCH BASIN
CC	CEMENT CONCRETE
CL	CENTERLINE
CLF	CHAIN LINK FENCE
CO	CLEAN-OUT
COL	COLUMN
CMU	CONCRETE MASONRY UNIT
CNDT	CONDUIT
DG	DECOMPOSED GRANITE
DS	DOWNSPOUT
DF	DRINKING FOUNTAIN
DWY	DRIVEWAY
ECNDT	ELECTRICAL CONDUIT
EG	EDGE OF GUTTER
ELEC	ELECTRIC
ECNDT	ELECTRIC CONDUIT
EMH	ELECTRIC MANHOLE
E-PNL	ELECTRIC PANEL
EPB	ELECTRIC PULL BOX
EV	ELECTRIC VAULT
EYB	ELECTRIC YARD BOX
ENC	ENCLOSURE
FF	FINISH FLOOR
FA	FIRE ALARM
FDC	FIRE DEP. CONNECTION
FIRE EX	FIRE EXTINGUISHER
FH	FIRE HYDRANT
FW	FIRE WATER
FP	FLAGPOLE
FD	FLOOR DRAIN
FL	FLOW LINE
FTG	FOOTING
HB	HOSE BIB
IRR	IRRIGATION
GM	GAS METER
GV	GAS VALVE
GB	GRADE BREAK
GC	GRADE CHANGE
GVL	GRAVEL
GND	GROUND
GBP	GROUND PULL BOX
GA	GUY ANCHOR
ICV	IRRIGATION CONTROL VALVE
INV	INVERT
JB	JUNCTION BOX
LNDG	LANDING
LP	LIGHT POST
LS	LIGHT STANDARD
MH	MANHOLE
MISC/MSC	MISCELLANEOUS/METAL STORAGE CONTAINER
MS	MOW STRIP
MLCH	MULCH
MTT	MULTI-TRUNK TREE
NG	NATURAL GROUND, DIRT
OH	OVERHEAD
PNL	PANEL
PVR	PAVERS
PA	PLANTER AREA
POC	POINT OF CONNECTION
PIV	POST INDICATOR VALVE
POW	POWER
PP	POWER POLE
PV	POWER VAULT
PB	PULLBOX
PVC	PVC PIPE
RCV	REMOTE CONTROL VALVE
R/W	RIGHT-OF-WAY
SCPR	SCRAPPER
SD	STORM DRAIN
SDMH	STORM DRAIN MANHOLE
SDPB	STORM DRAIN PULL BOX
SIG	SIGNAL
SL	STREET LIGHT
SMH	SEWER MANHOLE
SPB	SEWER PULL BOX
SWR	SEWER
SLHV	STREET LIGHTING HIGH VOLTAGE
SLP	STREET LIGHT POST
SLPB	STREET LIGHTING PULL BOX
SS	STREET SIGN
SV	SIGNAL VAULT
TEL	TELEPHONE
TV	TELEVISION
TH	THRESHOLD
TB	TOP OF BENCH
TBS	TOP OF BOTTOM STEP
TAD	TOP OF AREA DRAIN
TC	TOP OF CURB
TCB	TOP OF CATCH BASIN
TFD	TOP OF FLOOR DRAIN
TG	TOP OF GRATE
TMH	TOP OG MANHOLE
TRAMP/TR	TOP OF RAMP
TSLPB	TOP SLOPE
TTS	TOP OF TOP STEP
TW	TOP OF WALL
TX	TOP OF "X"
TSP	TRAFFIC SIGN POST
TS	TRAFFIC SIGNAL
TSV	TRAFFIC SIGNAL VAULT
UG	UNDERGROUND
UV	UNKNOWN VAULT
VLT	VAULT
VCP	VITRIFIED CLAY PIPE
VBP	VOLLEYBALL POST
WTR	WATER
WM	WATER METER
WPB	WATER PULL BOX
WV	WATER VALVE
WH	WEEPHOLE
WD	WOOD
WSC	WOOD STORAGE CONTAINER
WIF	WROUGHT IRON FENCE
XFOR	TRANSFORMER
YB	YARD BOX
YBE	YARD BOX - ELECTRIC
YBG	YARD BOX - GAS
YBS	YARD BOX - SEWER
YBSD	YARD BOX - STORM DRAIN
YBU	YARD BOX - UNKNOWN
YBW	YARD BOX - WATER
DWPWS	DEPARTMENT OF WATER AND POWER WATER SYSTEMS
SCG	SOTHERN CALIFORNIA GAS

LOS ANGELES UNIFIED SCHOOL DISTRICT
DESIGN AND A/E
TECHNICAL SUPPORT
FACILITIES SERVICES DIVISION
333 S. BEAUDRY AVENUE, 23RD FLOOR
LOS ANGELES, CALIFORNIA 90017

PROJECT TITLE AND SCHOOL LOCATION

SOIL BORING SURVEY

CANOGA PARK
HIGH SCHOOL

6850 CA-27,
CANOGA PARK, CA 91303

COMMISSIONED ARCHITECT

CONSULTANT

Uniplan Engineering Inc.

Civil Engineering Transportation & Traffic Engineering
Stormwater Management Land Planning
Construction Management & Inspection Surveying

STAMPS/SEALS

REGISTERED PROFESSIONAL ENGINEER
ROBERT C. BRILLADES P.E.
31488
Ex. 12-31-24
CIVIL
STATE OF CALIFORNIA

DIVISION OF THE STATE ARCHITECT

SHEET TITLE:

SOIL BORING SURVEY

PROJECT NO.: —	PROJECT ARCH: —
DRAWN: MT	CHECKED: A.P

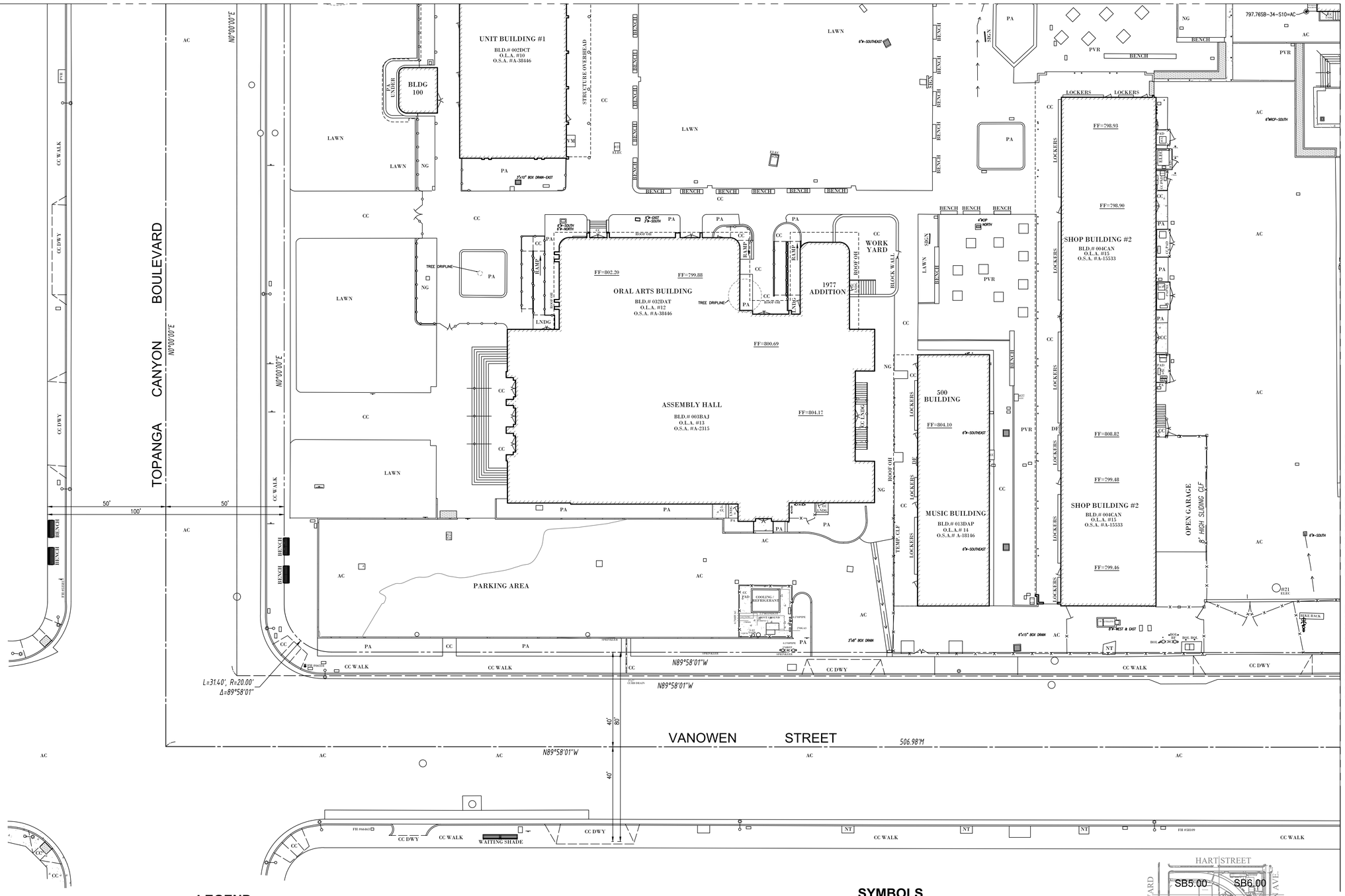
SHEET NUMBER

SB1.00

DATE: 07/20/23	SHEET: 1 OF: 9

"JANUARY 2007 VERSION"

MATCHLINE - SEE SHEET 3 OF 22



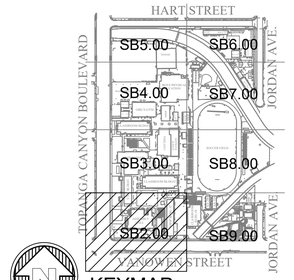
LEGEND

- CEMENT CONCRETE
- CENTERLINE
- EASEMENT
- PROPERTY LINE
- CHAIN LINK FENCE
- EXISTING CONTOUR LINE (150.00)
- FLOWLINE
- RIDGE, GRADE BREAK
- WROUGHT IRON FENCE
- PAINT STRIPING
- TREE DRIPLINE
- OVERHEAD: ROOF, STRUCTURE
- TRUNCATED DOME

- LAUSD AS-BUILT: COMMUNICATION
- LAUSD AS-BUILT: ELECTRIC
- LAUSD AS-BUILT: FIRE ALARM
- LAUSD AS-BUILT: GAS
- LAUSD AS-BUILT: IRRIGATION
- LAUSD AS-BUILT: SEWER
- LAUSD AS-BUILT: STORM DRAIN
- LAUSD AS-BUILT: WATER

SYMBOLS

- GAS VALVE
- FIRE HYDRANT
- LIGHT POST
- LIGHT STANDARD
- POWER POLE
- SEWER MANHOLE
- STORM DRAIN MANHOLE
- STREET SIGN, SIGN POST
- SURVEY WELL MONUMENT
- TRAFFIC SIGNAL
- TREE
- VALVE, DOWNSPOUT, PIPE, CONDUIT
- WATER VALVE
- YARD BOX



KEYMAP
SCALE: NOT TO SCALE

20 10 0 20 40 60
SCALE: 1" : 20'

MATCHLINE - SEE SHEET 9 OF 22

LOS ANGELES UNIFIED SCHOOL DISTRICT
DESIGN AND A/E
TECHNICAL SUPPORT
FACILITIES SERVICES DIVISION
333 S. BEAUDRY AVENUE, 23RD FLOOR
LOS ANGELES, CALIFORNIA 90017

PROJECT TITLE AND SCHOOL LOCATION

SOIL BORING SURVEY

CANOGA PARK HIGH SCHOOL

6850 CA-27,
CANOGA PARK, CA 91303

COMMISSIONED ARCHITECT

CONSULTANT

Uniplan engineering inc.

Civil Engineering Transportation & Traffic Engineering
Stormwater Management Land Planning
Construction Management & Inspection Surveying

STAMPS/SEALS

REGISTERED PROFESSIONAL ENGINEER
ANDREW D. PHILLIPS, P.E.
31488
Exp. 12-31-24
CIVIL
STATE OF CALIFORNIA

DIVISION OF THE STATE ARCHITECT

SHEET TITLE:

SOIL BORING SURVEY

PROJECT NO.: —	PROJECT ARCH: —
DRAWN: MT	CHECKED: A.P

SHEET NUMBER

SB2.00

DATE: 07/20/23	SHEET: 2 OF: 9

"JANUARY 2007 VERSION"

MATCHLINE - SEE SHEET 4 OF 22

BASSETTE STREET

TOPANGA CANYON BOULEVARD

CLASSROOM BUILDING #3

BLDG 300

CAFETERIA
BLD.# 006CAM
O.L.A. #7
O.S.A. #A-10377

LUNCH PAVILION

ARCADE

STRUCTURE OVERHEAD

UNIT BUILDING #2
BLD.# 031DCT
O.L.A. #8
O.S.A. #A-38446

BLDG 200

BOILER ROOM
BLD.# 001C0H
O.L.A. #9
NO O.S.A.

TEXTBOOK STORAGE
BLD.# 026D0M
O.L.A. #28
NO O.S.A.
FF=797.80

AA-396
BLD.# X0396L
O.L.A. #27
O.S.A. #A-6003

M-900
BLD.# M0900S
O.L.A. #30
NO O.S.A.

BLDG 100

UNIT BUILDING #1
BLD.# 002DCT
O.L.A. #10
O.S.A. #A-38446

CLASSROOM BUILDING #2
BLD.# 005BCN
O.L.A. #11
O.S.A. #A-15533
FF=799.50
FF=799.48
FF=799.55

1154.63'M

50' 100' 50'

MATCHLINE - SEE SHEET 2 OF 22

MATCHLINE - SEE SHEET 8 OF 22

LEGEND

- CEMENT CONCRETE
- CENTERLINE
- EASEMENT
- PROPERTY LINE
- CHAIN LINK FENCE
- EXISTING CONTOUR LINE (150.00)
- FLOWLINE
- RIDGE, GRADE BREAK
- WROUGHT IRON FENCE
- PAINT STRIPING
- TREE DRIPLINE
- OVERHEAD: ROOF, STRUCTURE
- TRUNCATED DOME

- LAUSD AS-BUILT: COMMUNICATION
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- LAUSD AS-BUILT: FIRE ALARM
- LAUSD AS-BUILT: GAS
- LAUSD AS-BUILT: IRRIGATION
- LAUSD AS-BUILT: SEWER
- LAUSD AS-BUILT: STORM DRAIN
- LAUSD AS-BUILT: WATER

SYMBOLS

- BOLLARD
- GAS VALVE
- FIRE HYDRANT
- LIGHT POST
- LIGHT STANDARD
- POWER POLE
- SEWER MANHOLE
- STORM DRAIN MANHOLE
- STREET SIGN, SIGN POST
- TRAFFIC SIGNAL
- TREE
- VALVE, DOWNSPOUT, PIPE, CONDUIT
- WATER VALVE
- YARD BOX

20 10 0 20 40 60

SCALE: 1" : 20'

KEYMAP
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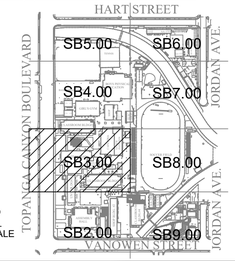


LOS ANGELES UNIFIED SCHOOL DISTRICT
BOARD OF EDUCATION

LOS ANGELES UNIFIED SCHOOL DISTRICT
DESIGN AND A/E
TECHNICAL SUPPORT
FACILITIES SERVICES DIVISION
333 S. BEAUDRY AVENUE, 23RD FLOOR
LOS ANGELES, CALIFORNIA 90017

PROJECT TITLE AND SCHOOL LOCATION

SOIL BORING SURVEY

CANOGA PARK HIGH SCHOOL
6850 CA-27,
CANOGA PARK, CA 91303

COMMISSIONED ARCHITECT

CONSULTANT

Uniplan Engineering Inc.
Civil Engineering Transportation & Traffic Engineering
Stormwater Management Land Planning
Construction Management & Inspection Surveying

STAMPS/SEALS

REGISTERED PROFESSIONAL ENGINEER
ALFRED E. BRITTAINES, P.E.
31488
Ex. 12-31-24
CIVIL
STATE OF CALIFORNIA

DIVISION OF THE STATE ARCHITECT

SHEET TITLE:

SOIL BORING SURVEY

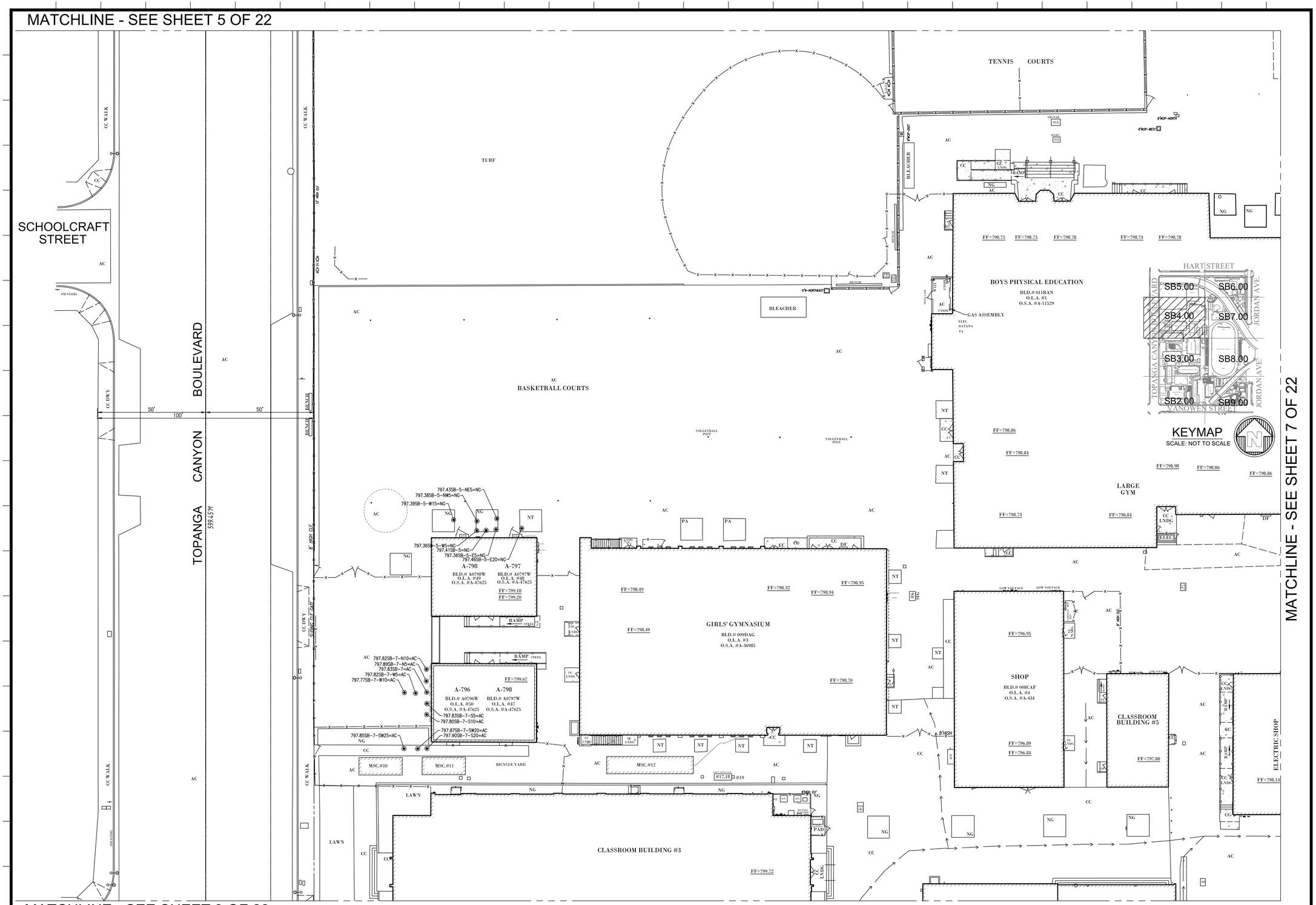
PROJECT NO.: –	PROJECT ARCH: –
DRAWN: MT	CHECKED: A.P

SHEET NUMBER

SB3.00

DATE: 07/20/23 SHEET: 3 OF: 9

"JANUARY 2007 VERSION"



LEGEND

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- TREE DRIPLINE
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- LAUSD AS-BUILT: SEWER
- LAUSD AS-BUILT: STORM DRAIN
- LAUSD AS-BUILT: WATER

SYMBOLS

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- LIGHT POST
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- WATER VALVE
- YARD BOX

20 10 0 20 40 60

SCALE: 1" : 20'

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TECHNICAL SUPPORT
FACILITIES SERVICES DIVISION
333 S. BEAUDRY AVENUE, 23RD FLOOR
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SOIL BORING SURVEY

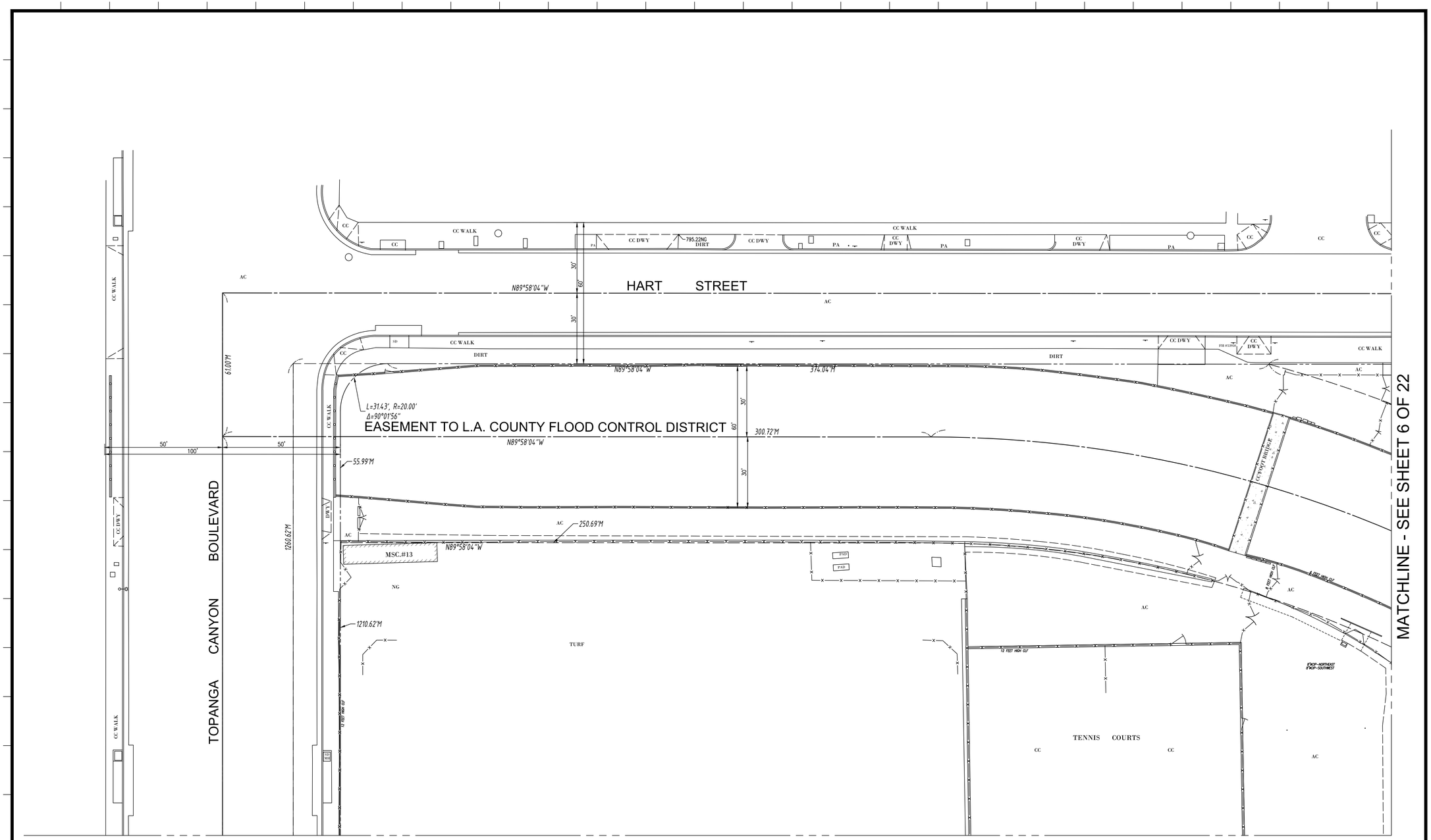
PROJECT NO.: —	PROJECT ARCH: —
DRAWN: MT	CHECKED: A.P

SHEET NUMBER

SB4.00

DATE: 07/20/23 SHEET: 4 OF: 9

"JANUARY 2007 VERSION"



20 10 0 20 40 60

SCALE: 1" : 20'

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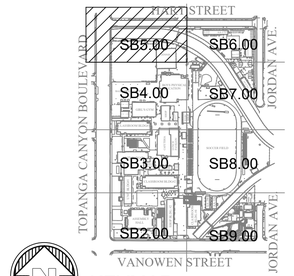

KEYMAP

SCALE: NOT TO SCALE

LOS ANGELES UNIFIED SCHOOL DISTRICT
DESIGN AND A/E
TECHNICAL SUPPORT
FACILITIES SERVICES DIVISION
333 S. BEAUDRY AVENUE, 23RD FLOOR
LOS ANGELES, CALIFORNIA 90017

PROJECT TITLE AND SCHOOL LOCATION

SOIL BORING SURVEY

CANOGA PARK HIGH SCHOOL

6850 CA-27,
CANOGA PARK, CA 91303

COMMISSIONED ARCHITECT

CONSULTANT

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STAMPS/SEALS

REGISTERED PROFESSIONAL ENGINEER
ALFRED C. BRILLANES, P.E.
31488
Exp. 12-31-24
CIVIL
STATE OF CALIFORNIA

DIVISION OF THE STATE ARCHITECT

SHEET TITLE:

SOIL BORING SURVEY

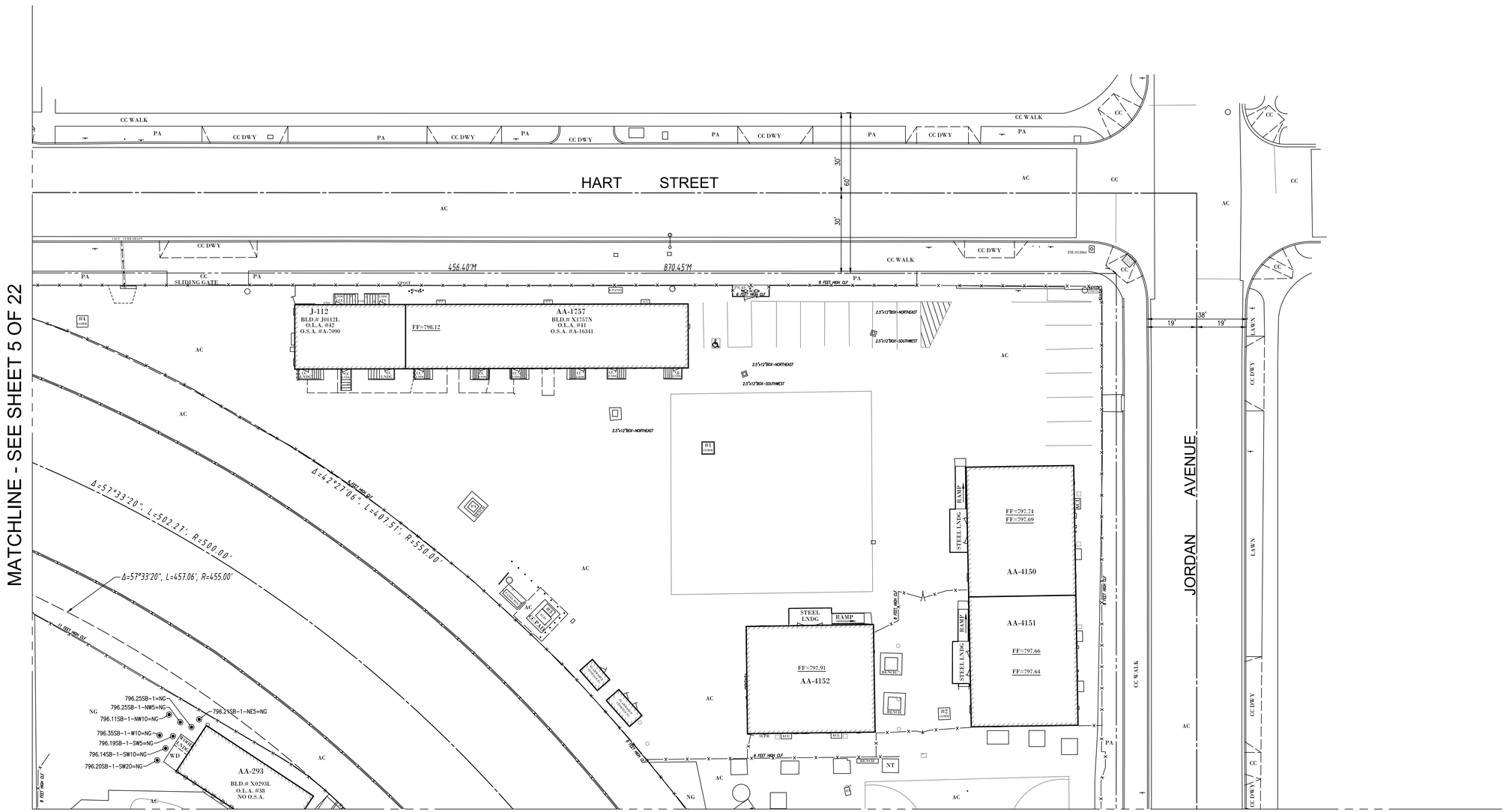
PROJECT NO.: —	PROJECT ARCH: —
DRAWN: MT	CHECKED: A.P

SHEET NUMBER

SB5.00

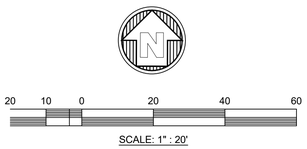
DATE: 07/20/23	SHEET: 5 OF: 9

"JANUARY 2007 VERSION"



MATCHLINE - SEE SHEET 5 OF 22

MATCHLINE - SEE SHEET 7 OF 22



SCALE: 1" : 20'

LEGEND

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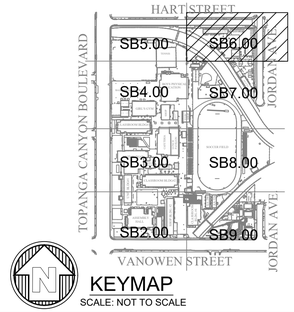

KEYMAP
SCALE: NOT TO SCALE

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DESIGN AND A/E
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FACILITIES SERVICES DIVISION
333 S. BEAUDRY AVENUE, 23RD FLOOR
LOS ANGELES, CALIFORNIA 90017

PROJECT TITLE AND SCHOOL LOCATION

SOIL BORING SURVEY

CANOGA PARK HIGH SCHOOL

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CANOGA PARK, CA 91303

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Exp. 12-31-24
CIVIL
STATE OF CALIFORNIA

DIVISION OF THE STATE ARCHITECT

SHEET TITLE:

SOIL BORING SURVEY

PROJECT NO.: —	PROJECT ARCH: —
DRAWN: MT	CHECKED: A.P

SHEET NUMBER

SB6.00

DATE: 07/20/23 | SHEET: 6 OF: 9

"JANUARY 2007 VERSION"

MATCHLINE - SEE SHEET 6 OF 22

MATCHLINE - SEE SHEET 4 OF 22

MATCHLINE - SEE SHEET 8 OF 22

BELL CREEK FLOOD CONTROL CHANNEL

JORDAN AVENUE

TOOL STORAGE

DIRT

STORAGE UNIT

796.25SB-3-NW5=AC
796.16SB-3=NG
796.06SB-3-SW5=NG
795.97SB-3-SE10=NG
795.97SB-3-SW10=NG
795.89SB-3-S10=NG
795.80SB-3-S15=NG

LATH HOUSE

GARDEN

NG

AA-3564
BLDG. #1018A
O.S.A.=4,430ft²

AA-3720
BLDG. #1278
O.S.A.=4,345ft²

LAWN

SHOT PUT
DG

STORAGE
BLD. #028D01

SHRUBS

WOOD LOG

TREE DRIPLINE

GC WALK

CC RAMP

CC LANDING

RAMP

CC LWDY

CC DWY

PA

AC

DG

NG

TABLE

GYM EQUIPMENT

6'Ø-SOUTHWEST
6'Ø-SOUTHEAST
6'Ø-NORTHEAST
6'Ø-SOUTH
6'Ø-NORTH
6'Ø-NORTHWEST
6'Ø-WEST

TURF

RUNNING TRACK

WOOD PLANTER

ELECTRIC SHOP

STORAGE

MSC. HR

449.52'M
607.32'M
253.09'M
236.57'M
402.59'M

N32°24'44"W

L=80.94', R=48.00'
Δ=9°39'42"

L=93.58', R=525.00'
Δ=10°12'45"

CURVE DATA TABLE

	DELTA	RADIUS	LENGTH	TANGENT	REMARKS
1	27°44'00"	38.95'	18.85'	9.62'	CL
2	38°39'32"	22.76'	15.36'	7.98	CL
3	30°09'06"	13.57'	25.78'	3.66'	CL
4	12°26'49"	41.98'	9.12'	4.58'	CL
5	72°09'16"	25.08'	31.58'	18.28'	CL
6	55°24'22"	21.64'	20.93'	11.36'	CL
7	26°11'51"	42.16'	19.28'	9.81'	CL

20 10 0 20 40 60

SCALE: 1" : 20'

HART STREET
TOPANGA CANYON BOULEVARD
JORDAN AVE.
VANOWEN STREET
SB5.00
SB6.00
SB4.00
SB7.00
SB3.00
SB8.00
SB2.00
SB9.00

KEYMAP
SCALE: NOT TO SCALE

LEGEND

- CEMENT CONCRETE
- CENTERLINE
- EASEMENT
- PROPERTY LINE
- CHAIN LINK FENCE
- EXISTING CONTOUR LINE (150.00)
- FLOWLINE
- RIDGE, GRADE BREAK
- WROUGHT IRON FENCE
- TREE DRIPLINE
- OVERHEAD: ROOF, STRUCTURE
- LAUSD AS-BUILT: COMMUNICATION
- LAUSD AS-BUILT: ELECTRIC
- LAUSD AS-BUILT: FIRE ALARM
- LAUSD AS-BUILT: GAS
- LAUSD AS-BUILT: IRRIGATION
- LAUSD AS-BUILT: SEWER
- LAUSD AS-BUILT: STORM DRAIN
- LAUSD AS-BUILT: WATER

SYMBOLS

- BOLLARD
- GAS VALVE
- FIRE HYDRANT
- LIGHT POST
- LIGHT STANDARD
- POWER POLE
- SEWER MANHOLE
- STORM DRAIN MANHOLE
- STREET SIGN, SIGN POST
- TRAFFIC SIGNAL
- TREE
- VALVE, DOWNSPOUT, PIPE, CONDUIT
- WATER VALVE
- YARD BOX

LOS ANGELES UNIFIED SCHOOL DISTRICT
DESIGN AND A/E
TECHNICAL SUPPORT
FACILITIES SERVICES DIVISION
333 S. BEAUDRY AVENUE, 23RD FLOOR
LOS ANGELES, CALIFORNIA 90017

PROJECT TITLE AND SCHOOL LOCATION

SOIL BORING SURVEY

CANOGA PARK HIGH SCHOOL

6850 CA-27,
CANOGA PARK, CA 91303

COMMISSIONED ARCHITECT

CONSULTANT

Uniplan Engineering Inc.

Civil Engineering Transportation & Traffic Engineering
Stormwater Management Land Planning
Construction Management & Inspection Surveying

STAMPS/SEALS

REGISTERED PROFESSIONAL ENGINEER
ALFRED C. BRILLANTES, P.E.
31488
Exp. 12-31-24
CIVIL
STATE OF CALIFORNIA

DIVISION OF THE STATE ARCHITECT

SHEET TITLE:

SOIL BORING SURVEY

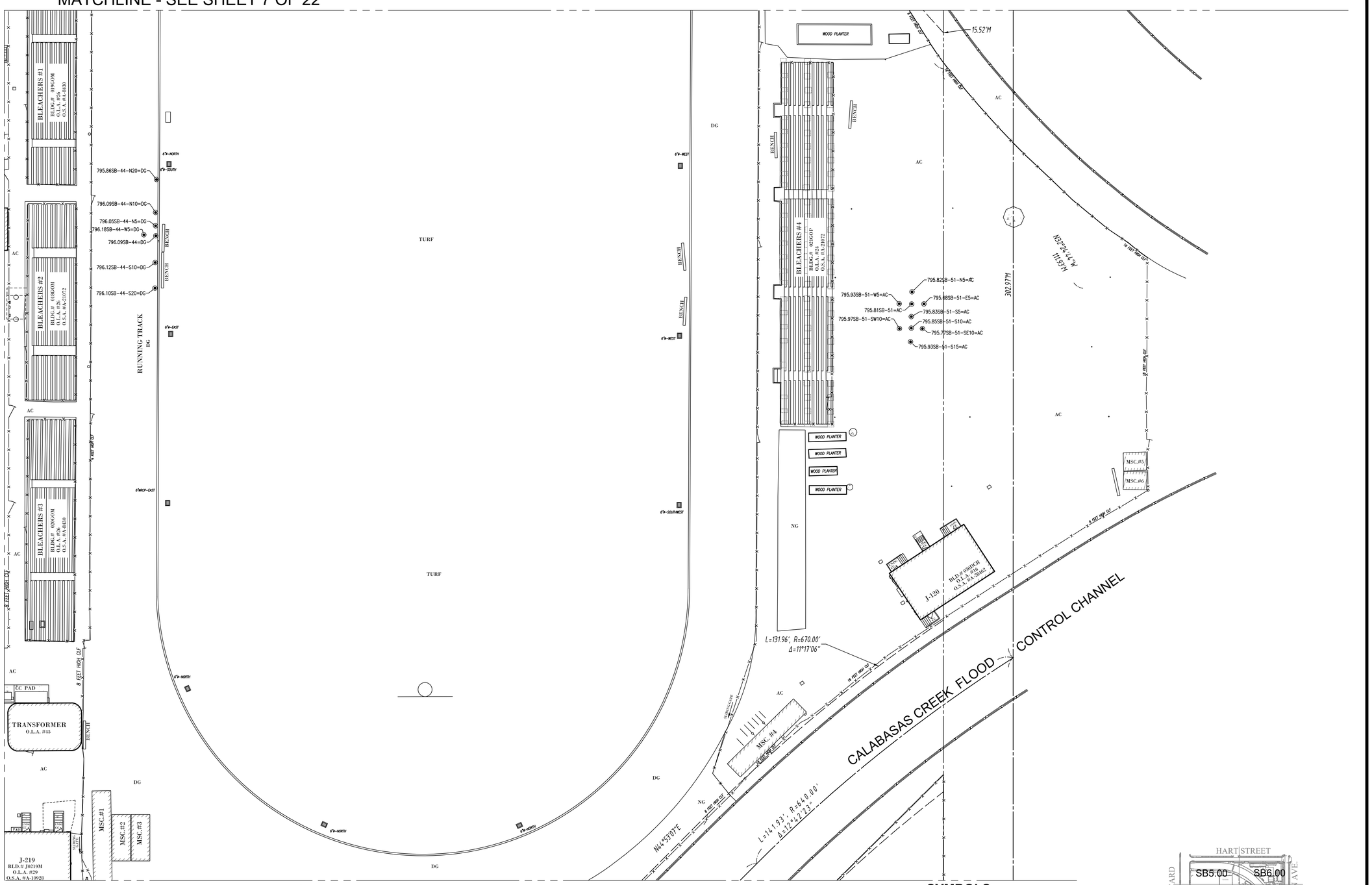
PROJECT NO.: —	PROJECT ARCH: —
DRAWN: MT	CHECKED: A.P

SHEET NUMBER

SB7.00

DATE: 07/20/23	SHEET: 7 OF: 9

"JANUARY 2007 VERSION"



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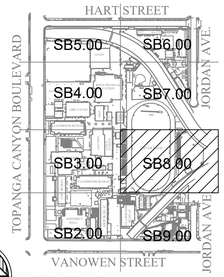
- VALVE, DOWNSPOUT, PIPE, CONDUIT
- WATER VALVE
- YARD BOX

20 10 0 20 40 60

SCALE: 1" : 20'



KEYMAP
SCALE: NOT TO SCALE

LOS ANGELES UNIFIED SCHOOL DISTRICT
DESIGN AND A/E TECHNICAL SUPPORT
FACILITIES SERVICES DIVISION
333 S. BEAUDRY AVENUE, 23RD FLOOR
LOS ANGELES, CALIFORNIA 90017

PROJECT TITLE AND SCHOOL LOCATION

SOIL BORING SURVEY

CANOGA PARK HIGH SCHOOL

6850 CA-27,
CANOGA PARK, CA 91303

COMMISSIONED ARCHITECT

CONSULTANT

Uniplan Engineering Inc.

Civil Engineering Transportation & Traffic Engineering
Stormwater Management Land Planning
Construction Management & Inspection Surveying

STAMPS/SEALS

REGISTERED PROFESSIONAL ENGINEER
ALFRED D. BRILLANTES P.E.
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Exp. 12-31-24
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STATE OF CALIFORNIA

DIVISION OF THE STATE ARCHITECT

SHEET TITLE:

SOIL BORING SURVEY

PROJECT NO.: —	PROJECT ARCH: —
DRAWN: MT	CHECKED: A.P

SHEET NUMBER

SB8.00

DATE: 07/20/23	SHEET: 8 OF: 9

"JANUARY 2007 VERSION"

MATCHLINE - SEE SHEET 8 OF 22

MATCHLINE - SEE SHEET 2 OF 22

CALABASAS CREEK FLOOD CONTROL CHANNEL

N44°53'07"E

285.36'M

AA-290

AA-324

796.83SB-39-N10=NG
796.88SB-39-N5=NG
796.96SB-39-NG
797.13SB-39-E5=AC
796.89SB-39-S5=NG
797.40SB-39-W10=AC
797.13SB-39-W5=AC
797.13SB-39-NG=AC
797.13SB-39-E5=AC
797.40SB-39-S10=AC
797.40SB-39-SW25=NG
797.35SB-39-S10=AC

CLASSROOM BUILDING #4
BLD.# 030DCR
O.L.A. #16
O.S.A. #A-28462
FF=799.49

600 BUILDING

LAWN

RAMP

SIGN

LATH HOUSE
FF=798.78 BLD.# 023D0P
O.L.A. #21
O.S.A. #A-21698

LIVESTOCK SHED

STORAGE UNIT

AGGRICULTURE UNIT
BLD.# 022D0P
O.L.A. #20
O.S.A. #A-21698
FF=799.02
FF=799.10
FF=799.19

STORAGE UNIT

BENCH

BUILDING

GARDEN AREA

ROOF SHED

SHED

DIRT

GABLE

CL DRIVEWAY

MSC.#16

BOL

58.19'M
N42°26'14"E

L=6836.16' R=1600.00'
Δ=2°26'53"
N42°26'14"E
3.39'M

L=6708.08' R=15700.00'
Δ=2°26'53"

N42°26'14"E
84.96'M

423.37'M

VANOWEN STREET

JORDAN AVENUE

410.35'M

S0°00'16"W

53.63'M

61.61'M

35.16'M

60'
30'
30'

42'
13'

40'
60'

LEGEND

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- FLOWLINE
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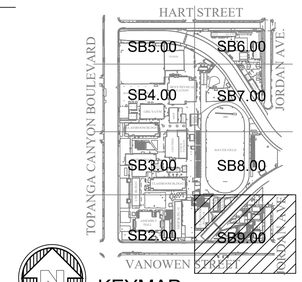
SYMBOLS

- GAS VALVE
- FIRE HYDRANT
- LIGHT POST
- LIGHT STANDARD
- POWER POLE
- SEWER MANHOLE
- STORM DRAIN MANHOLE
- STREET SIGN, SIGN POST
- SURVEY WELL MONUMENT
- TRAFFIC SIGNAL
- TREE
- VALVE, DOWNSPOUT, PIPE, CONDUIT
- WATER VALVE
- YARD BOX

20 10 0 20 40 60

SCALE: 1" : 20'



KEYMAP
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LOS ANGELES UNIFIED SCHOOL DISTRICT
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LOS ANGELES, CALIFORNIA 90017

PROJECT TITLE AND SCHOOL LOCATION

SOIL BORING SURVEY

CANOGA PARK HIGH SCHOOL
6850 CA-27,
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CONSULTANT

Uniplan Engineering Inc.
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STAMPS/SEALS

REGISTERED PROFESSIONAL ENGINEER
KEVIN D. SHILDNECK, P.E.
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STATE OF CALIFORNIA

DIVISION OF THE STATE ARCHITECT

SHEET TITLE:

SOIL BORING SURVEY

PROJECT NO.: —	PROJECT ARCH: —
DRAWN: MT	CHECKED: A.P

SHEET NUMBER

SB9.00

DATE: 07/20/23	SHEET: 9 OF: 9

'JANUARY 2007 VERSION'

APPENDIX B

SCAQMD REQUIREMENTS

(e) Requirements to Minimize Fugitive Dust Emissions

(3) An owner or operator conducting on-site earth-moving activities shall:

(A) Adequately wet to the depth of earth-moving activity and allow time for penetration; and

(B) Adequately wet at frequencies to prevent the generation of visible dust plumes.

(4) An owner or operator that is moving vehicles on, within, or off a site shall:

(A) Post signs at all entrances of the site to designate the speed limit as 15 mph;

(B) Stabilize the surface of all vehicular traffic and parking areas by applying gravel, paving, chemical stabilizers pursuant to paragraph (e)(13), or dust suppressant;

(C) Not allow any track-out outside of the property line that is 25 feet or more in cumulative length. Remove any track-out at a minimum frequency of once each day using a vacuum equipped with a filter(s) rated by the manufacturer to achieve a 99.97 percent control efficiency for 0.3 micron particles;

(D) Clean the soil from the exterior of trucks, trailers, and tires prior to the truck leaving the site, without the use of forced air; and

(E) Utilize at least one of the following measures at each vehicle egress from the site to a public road:

(i) Install a pad consisting of washed gravel (minimum-size: 1 inch), maintained in a clean condition, to a depth of at least 6 inches and extending at least 30 feet wide and at least 50 feet long;

(ii) Pave the surface extending at least 100 feet from the property line and at least 30 feet wide;

(iii) Utilize a wheel shaker/wheel spreading device consisting of raised dividers (rails, pipes, or grates) at least 24 feet long and 30 feet wide; or

(iv) Install and utilize a wheel washing system to remove soil from tires and vehicle undercarriages.

(5) An owner or operator conducting on-site earth-moving activities shall ensure that stockpiles with any soil with applicable toxic air contaminant(s) be:

(A) Segregated from non-contaminated stockpiles;

(B) Labelled with “South Coast AQMD Rule 1466 – Control of Particulate Emissions from Soils with Toxic Air Contaminant(s) Applicable Soil”;

(C) Maintained to avoid steep sides or faces that exceed the angle of repose;

(D) No more than 400 cubic yards of soil;

(E) Maintained to minimize fugitive dust emissions containing toxic air contaminants by applying chemical stabilizers pursuant to paragraph (e)(13), applying dust suppressant, or completely covering pursuant to paragraph (e)(14); and

(F) Either chemically stabilized pursuant to paragraph (e)(13) and/or completely covered pursuant to paragraph (e)(14) at all times when earthmoving activities and ambient PM10 monitoring are not occurring.

(6) An owner or operator conducting truck and trailer loading activities of soil containing applicable toxic air contaminant(s) shall:

(A) Apply dust suppressant to material prior to loading;

(B) Empty the loader bucket slowly so that no visible dust plumes are generated

(C) Minimize the drop height from the loader bucket;

(D) Maintain at least 6 inches of space between the soil and the top of the truck bed and trailer while transporting within a site; and

(E) Completely cover the truck bed and trailer prior to leaving the site.

(7) An owner or operator conducting truck and trailer unloading activities of soil containing applicable toxic air contaminant(s) shall:

(A) Apply dust suppressant to material prior to unloading; and

(B) Empty the trailer slowly so that no visible dust plumes are generated.

(8) The owner or operator shall immediately remove any spilled soil.

(9) The owner or operator shall cease on-site earth-moving activities if the wind speed is greater than 15 mph averaged over a 15-minute period or the instantaneous wind speed exceeds 25 mph.

(13) When utilizing a chemical stabilizer, an owner or operator shall:

(A) Ensure the chemical stabilizer meets any specifications, criteria, or tests required by any federal, state, or local agency or any applicable law, rule, or regulation; and

(B) Unless otherwise indicated, use a sufficient concentration of the chemical stabilizer and an application frequency sufficient to maintain a stabilized surface and no less than what is specified by the manufacturer for the period of inactivity

(14) When using a cover for stockpiles, an owner or operator shall ensure the cover:

(A) Is at least 10 mil thick plastic sheeting that overlaps a minimum of 24 inches; and

(B) Is anchored and secured so that no portion of the soil is exposed to the atmosphere.

(15) An owner or operator that is conducting earth-moving activities of soil with applicable toxic air contaminant(s) at a school, joint use agreement property, adjacent athletic area, or at a site that is adjoining a school, joint use agreement property, or adjacent athletic area shall:

(A) Only conduct earth-moving activities at a school or at a site that is adjoining a school outside of the hours between 7:30 a.m. and 4:30 p.m. on days when the school is in session;

(B) Not conduct earth-moving activities at a school, joint use agreement property, adjacent athletic area, or at a site that is adjoining a school, joint use agreement property, or adjacent athletic area if there is a school sponsored activity or youth organized sports

taking place at that site; (C) Handle excavated soils with applicable toxic air contaminant(s) by:

(i) Immediately placing soil in a leak-tight container whereby any contained solids or liquids are prevented from escaping or spilling out;

(ii) Directly loading soil in truck beds, trailers, and bins for transport, applying chemical stabilizer pursuant to paragraph (e)(13) or dust suppressant, and completely covering prior to transporting; or

(iii) Stockpiling pursuant to paragraph (e)(5), in a fenced area that is not accessible to the general public, and locked when not in use; and

(iv) Within five days of its excavation, remove all soil with applicable toxic air contaminant(s) from the site.

(f) Notification Requirements

(1) The owner or operator shall electronically submit an initial notification to the Executive Officer, using a format approved by the Executive Officer, of the intent to conduct any on-site earth-moving activities.

(A) Initial notifications shall be submitted:

(i) at least 72 hours but no more than 30 days prior to conducting any earth-moving activities on any site meeting the applicability requirements of subdivision (b); or

(ii) As soon as the information becomes available but no later than 48 hours after the information becomes available that on-site earthmoving activities of soil with applicable toxic air contaminant(s) exceed 50 cubic yards.

(B) Initial notifications shall include the following requirements:

(i) Name, address, telephone number, and e-mail address of the owner or operator;

(ii) Name, telephone number, and e-mail address of the on-site dust control supervisor;

(iii) Project name and, if applicable, the project identification number from the designating agency;

(iv) Project location (address and/or coordinates);

(v) Identify whether the site is a school, joint use agreement property, adjacent athletic area, or is adjoining a school, joint use agreement property, or adjacent athletic area;

(vi) A map indicating the specific location(s) of each on-site earthmoving activity and the concentrations of the applicable toxic air contaminant(s) and location of PM10 monitors;

(vii) A description of the on-site earth-moving activities, estimated volume of soil with applicable toxic air contaminant(s), and a schedule that includes the anticipated start and completion dates of on-site earth-moving activities;

(viii) Current and/or previous type of operation(s) and use(s) at the site;

(ix) Applicable exemption(s); and

(x) Whether the notice being provided is a revised notification.

(2) Notification Updates
Initial notifications pursuant to paragraph (f)(1) shall be updated when any of the following conditions arise:

(A) Earlier Start Date
A change in the start date of on-site earth-moving activities to an earlier date shall be reported to the South Coast AQMD no later than 72 hours before any on-site earth-moving activities begin.

(B) Later Start Date
A delay in the start date of on-site earth-moving activities shall be reported to the South Coast AQMD as soon as the information becomes available, but no later than the original start date.

(C) Change in Exemption Status
Any change(s) in exemption status pursuant to subdivision (k) shall be reported to the South Coast AQMD as soon as the information becomes available, but no later than 48 hours after the information becomes available.

(D) Completion Date
The completion date of on-site earth-moving activities shall be reported to the South Coast AQMD no later than 48 hours after on-site earth-moving activities are completed.

(3) Within 72 hours of an exceedance of the PM10 emission limit specified in paragraph (d)(2), the owner or operator shall electronically submit a notification to the Executive Officer, using a format approved by the Executive Officer, of the exceedance and shall include the following information:

(A) Name, address, telephone number, and e-mail address of the owner or operator;

(B) Name, telephone number, and e-mail address of the on-site dust control supervisor;

(C) Project name and, if applicable, the project identification number from the designating agency;

(D) Project location (address and/or coordinates);

(E) PM10 monitoring results and wind direction and speed results pursuant to subdivision (d), including location of monitors, result, date and time of exceedance(s), 12 hours before first exceedance, and 12 hours after last exceedance;

(F) On-site earth-moving activities occurring at the date and time of exceedance(s); and

(G) Dust control measure(s) taken to mitigate fugitive dust

(h) Recordkeeping Requirements
The owner or operator shall maintain records for a period of not less than 3 years and shall make such records available to the Executive Officer upon request. At a minimum, records shall be maintained daily and shall include:

(1) Inspections of all stabilized or covered stockpiles containing soils with applicable toxic air contaminant(s) and all re-stabilization, cover repair, and label maintenance activities, including dates and times the specific activities were conducted;

(2) Results of wind and PM10 monitoring, including: ambient PM10 data; rolling average PM10 concentrations and calculations; wind direction and speed corresponding to the rolling average PM10 concentrations; movement of monitoring instruments corresponding to wind direction changes; instrument make and model; settings; proof of valid calibration in accordance with manufacturer's recommended schedule; configuration; calibration, correction, and correlation factors; maintenance; operator training; daily instrument performance check records and manual zero or auto-check results; weekly zero calibration records and intra-instrument precision test data and calculation results; and all instrument logs for all monitoring instruments;

(3) All instrument maintenance activities, including: zero calibration, cleaning, filter replacement, and performance checks, including dates and times of the specific procedures;

(4) Documentation of all DAS and data management system failures, including date and time of the failure, date and time of the correction, the technical issue(s) causing the failure, and activities performed to restore the failed DAS or data management system to working condition;

(5) On-site earth-moving activities conducted and the corresponding volume of soil with applicable toxic air contaminant(s);

(6) Names and business addresses of the transporting and receiving facilities, and a copy of the shipping manifest;

(7) Complaints called in, including the name of complainant and contact information, date and time, on-site earth-moving activities occurring at the date and time, complaint, and action taken to mitigate the source of the complaint; and

(8) A copy of all submitted notifications for the project.

(i) Executive Officer Designated Sites

(1) The Executive Officer may designate a site if the Executive Officer has evidence that the site contains soil with applicable toxic air contaminant(s) as defined in paragraph (c)(16), after consultation with U.S. EPA, DTSC, the State Water Resources Control Board, the Regional Water Quality Control Board, and/or local, county, or state regulatory agencies, and consideration of the following:

(A) Site history, including current and/or previous type(s) of operation(s) and use(s) at the site and regulatory history;

(B) Concentration(s) of applicable toxic air contaminant(s) in the soil;

(C) Background concentration(s) of applicable toxic air contaminant(s);

(D) Volume of soil with applicable toxic air contaminant(s);

(E) Distance to a residence, park, school, joint use agreement property, adjacent athletic area, or a site adjoining a school, joint use agreement property, or adjacent athletic area;

(F) Meteorological data;

(G) Health risk information or other data provided by the owner or operator, if available; and

(H) Ambient monitoring data and other applicable data, if available.

(2) Prior to making a determination, the Executive Officer will notify the owner or operator in writing that the site may be subject to this rule.

(A) In the event the owner or operator exercises this opportunity to demonstrate that this rule does not apply, the owner or operator shall submit information to the Executive Officer within 14 days of the notification substantiating why the site should be excluded from this rule.

(B) Upon final determination, the Executive Officer will notify the owner or operator in writing if the site is subject to this rule.

(3) During the determination period, the owner or operator shall comply with the provisions of this rule or cease all on-site earth-moving activities until a determination is made.

VOLUME 1 – NEW CONTRUCTION

ATTACHMENT A
PROJECT MANUAL

FOR

ASBESTOS REMOVAL

AT

CANOGA PARK HIGH SCHOOL (3932)

MAJOR MODERNIZATION PROJECT

LOCATED AT

6850 TOPANGA CANYON BOULEVARD
CANOGA PARK, CA 91303

IN THE LOS ANGELES UNIFIED SCHOOL DISTRICT

PREPARED BY:

VISTA ENVIRONMENTAL CONSULTING, INC.
1054 NORTH TUSTIN AVENUE
ANAHEIM, CA 92807
VISTA PROJECT NO. 220334113

PREPARED FOR:

LOS ANGELES UNIFIED SCHOOL DISTRICT
FACILITIES ENVIRONMENTAL TECHNICAL UNIT
1240 SOUTH NAOMI AVENUE
LOS ANGELES, CA 90021
LAUSD (COLIN) PROJECT NO. : 10372109
FETU WORK ORDER NO.: 50126255

DATE PREPARED: MARCH 1, 2023
DATE APPROVED: MARCH 24, 2023



CARLOS A. GALDAMEZ, CERTIFIED ASBESTOS CONSULTANT NO. 98-2379

APPENDIX I

Project Manual for Asbestos Removal

Los Angeles Unified School District
Facilities Services Division

ALBERTO M. CARVALHO
Superintendent of Schools

INDIA GRIFFIN
Director
Maintenance & Operations

MARK HOVATTER
Chief Facilities Executive

GRETA GALOUSTIAN
Facilities Environmental Technical Manager
Facilities Environmental Technical Unit

March 24, 2023

Mr. Carlos A. Galdamez
Vista Environmental Consulting, Inc.
1054 North Tustin Avenue
Anaheim, CA 92807

RE: PHASE __II__ REVIEW AND APPROVAL FOR ASBESTOS __X__ and/or LEAD __NA__

The Facilities Environmental Technical Unit (FETU) has reviewed and approved your Phase __II__ document(s) for the project listed below.

School: Canoga Park High School School Code # 3932

Project: Major Modernization Project

Colin No. 10372109 Maximo Work Order No. 35126255

Date of Report: 03/01/23

If you have any questions regarding this approval, please call the FETU at (213) 745-1450.

Sincerely,

Digitally signed by Michael Quilino
DN: cn=Michael Quilino, o, ou, email=michael.quilino@lausd.net, c=US
Date: 2023.03.24 08:27:42 -07'00'

Michael Quilino
Senior Asbestos Abatement Worker
Facilities Environmental Technical Unit

c: Greta Galoustian, Facilities Environmental Technical Manager
Kwun Yang, FETU Analyst

I. BOILER VAULT BUILDING (001COH / 24183) – To be Demolish

A. Remove and dispose of as friable and hazardous asbestos waste, the following material(s):

1. Asbestos-containing 9”x9” Green Floor Tile (**ACM**) with associated Black Mastic (**ACM**) on concrete substrate, approximately 700 square feet from Plant Manager’s Office area.

    a) Mastic shall be remove from the concrete substrate with chemical solvent using mechanical means.

2. Asbestos-containing 4” Pipe Insulation (**ACM**), approximately 30 linear feet located in the Crawl Space.

3. Asbestos-containing construction exterior stucco ceiling (**ACCM**), approximately 300 square feet located at the exterior of the building and Telephone Equipment Closet.

4. Asbestos-containing construction Drywall Wall (**ACCM**) with asbestos containing Tape & Mud (**ACM**), approximately 50 square feet located in the Telephone Equipment Closet.

5. Assumed asbestos-containing Fire Doors (**Assumed ACM**), approximately 9 doors, located throughout the building.

B. The work area involved is shown in the attached Figure 2.

II. CAFETERIA BUILDING & LUNCH PAVILION (006CAM / 22637) – To be Demolish

A. Remove and dispose of as friable and hazardous asbestos waste, the following material(s):

1. Asbestos-containing 9”x9” Lt. Brown w/ Yellow & Brown Floor Tile (**ACM**) with associated Black Mastic (**ACM**) on concrete substrate, approximately 300 square feet located at Cafeteria Office, Kitchen Locker Room, and Kitchen Ticket Booth (Cash Room).

2. Asbestos-containing 9”x9” Brown w/ Tan & Orange Floor Tile (**ACM**) with associated Black Mastic (**Non-ACM**) on concrete substrate, approximately 860 square feet located at Wellness Center and Athletic Office.

3. Asbestos-containing 9”x9” Burgundy / Green / Tan (Multi-Color) Floor Tile (**ACM**) with associated Black Mastic (**Non-ACM**) on concrete substrate, approximately 800 square feet located at Storage Room (West of Student Dining Area).

4. Asbestos-containing 9”x9” Tan w/ Yellow & Brown Streaks Floor Tile (**ACM**) with associated Black Mastic (**Non-ACM**) on concrete substrate, approximately 900 square feet located at Student Store.

    a) Mastic shall be remove from the concrete substrate with chemical solvent using mechanical means.

5. Asbestos-containing construction Joint Compound (**ACM**) on Drywall Wall (Non-ACM), approximately 150 square feet located in the Dining and Service Area by Double Doors.

6. Asbestos-containing Thermal System Insulation & Debris (**ACM**), approximately 300 linear feet of pipe insulation with 50 square feet of debris located in the Crawl Space.

   a) An approved South Coast Air Quality Management District (SCAQMD) Procedure 5 work plan will be required for the removal of the presence of asbestos-containing TSI Debris **(ACM**), where alternative combination of techniques and/or engineering controls are going to be used.

7. Assumed asbestos-containing Fire Doors, approximately 35 doors (**Assumed ACM**), located throughout the building.

B. Remove and dispose of as non-friable and non-hazardous asbestos waste, the following material(s):

1. Asbestos-containing Conduit Block Mastic (**ACM**), approximately 30 square feet, located on the Roof – Area A.

2. Asbestos-containing "Transite" Pipe (**ACM**), approximately 12 linear feet located on the Roof – Area A.

3. Asbestos-containing Conduit Wall Mastic (**ACM**), approximately 60 square feet, located on the Roof – Area B.

4. Asbestos-containing Metal Roof Flashing (**ACM**), approximately 80 square feet, located on the Roof – Areas E & F.

5. Assumed asbestos-containing chalkboard / bulletin board mastic (**Assumed ACM**), approximately 400 square feet located throughout the building.

C. The work area involved is shown in the attached Figure 3 & 4.

III. CLASSROOM BUILDING #5 (007DAL / 23422) – To be Demolish

A. Remove and dispose of as friable and hazardous asbestos waste, the following material(s):

1. Asbestos-containing construction Joint Compound (**ACCM**) on Drywall Ceiling (**Non-ACM**), approximately 1,650 square feet located in Room 4 and Storage Rooms #1 & #2 above the 12"x12" Straight Holes Ceiling Tiles.

2. Assumed asbestos-containing Fire Doors (**Assumed ACM**), approximately 4 doors, located throughout the building.

B. Remove and dispose of as non-friable and non-hazardous asbestos waste, the following material(s):

1. Asbestos-containing Window Putty (**ACM**), approximately 120 square feet located on the Exterior Windows.

2. Assumed asbestos-containing Chalkboard / Bulletin Board Mastic (**Assumed ACM**), approximately 300 square feet located in Room 4.

C. The work area involved is shown in the attached Figure 5.

IV. SHOP BULDING #1 (008CAF / 24628) – To be Demolish

A. Remove and dispose of as friable and hazardous asbestos waste, the following material(s):

1. Asbestos-containing Black Mastic (**ACM**) associated with 12”x12” Brown Marble & Lt. Brown (Mix) Floor Tile (**Non-ACM**) along with **Patch** 12”x12” Red Floor Tile (Non-ACM) on concrete substrate, approximately 322 square feet located at Instructional (Classroom) Area.

   a) Mastic shall be remove from the concrete substrate with chemical solvent using mechanical means.

2. Asbestos-containing Joint Compound (**ACM**) on Drywall Ceiling (**Non-ACM**), approximately 322 square feet located in the Instrumental (Classroom) Area above the 12”x12” Ceiling Tiles.

3. Asbestos-containing construction Dash Coat Material (**ACCM**), approximately 3,300 square feet located on the Exterior Walls of the Building.

4. Asbestos-containing construction Joint Compound (**ACCM**) on Unfinished Drywall Ceiling (**Non-ACM**), approximately 300 square feet located in the Attic Space above the Instrumental (Classroom) Area.

5. Assumed asbestos-containing Fire Doors (**Assumed ACM**), approximately 5 doors and 1 rolling door, located throughout the building.

B. Remove and dispose of as non-friable and non-hazardous asbestos waste, the following material(s):

1. Asbestos-containing Window Putty (**ACM**), approximately 140 square feet, located on the Windows of the Building.

2. Assumed Asbestos-containing Cement “Transite” Window Transoms (**Assumed ACM**), approximately 70 square feet located on the Window of the Building.

3. Assumed asbestos-containing whiteboard / bulletin board mastic (**Assumed ACM**), approximately 20 square feet located throughout the building.

4. Assumed asbestos-containing Mirror Mastic (**Assumed ACM**), approximately 100 square feet located in Shop Area (Weight Room).

C. The work area involved is shown in the attached Figure 6.

V. TEXTBOOK STORAGE BUILDING / PARENT CENTER (026DAM) – To be Demolish

A. Remove and dispose of as friable and hazardous asbestos waste, the following material(s):

1. Asbestos-containing Black Mastic (**ACM**) associated with 12"x12" Lt. Brown w/ Brown & White Floor Tile (**Non-ACM**) on concrete substrate, approximately 870 square feet located at Room 8.

   a) Mastic shall be remove from the concrete substrate with chemical solvent using mechanical means.

2. Asbestos-containing Joint Compound (**ACM**) on Drywall Ceiling (**Non-ACM**), approximately 870 square feet located in Room 8 above the 12"x12" Ceiling Tiles.

3. Assumed asbestos-containing Fire Doors, approximately 2 doors, located throughout the building.

B. Remove and dispose of as non-friable and non-hazardous asbestos waste, the following material(s):

1. Asbestos-containing Ceiling Tile Mastic (**ACM**) associated with 12"x12" Straight Holes Ceiling Tiles (**Non-ACM**), approximately 870 square feet, located in Room 8.

2. Assumed asbestos-containing Chalkboard Board Mastic (**Assumed ACM**), approximately 150 square feet located in Room 8.

C. The work area involved is shown in the attached Figure 7.

VI. SANITARY RELOCATABLE (J0120L) – To be Demolish

A. Remove and dispose of a friable and hazardous asbestos waste, the following material(s):

1. Asbestos-containing Brown Stone Pebble Floor Sheeting (**ACM**) – Top Layer; with Yellow Adhesive (Non-ACM) on Wood Underlayment (Non-ACM) – 2nd Layer; Resilient Sheet Flooring (Non-ACM) w/ asbestos-containing Black Mastic (**ACM**) – 3rd Layer; Flooring (Non-ACM) w/ Black Mastic (Non-ACM) on Wood Subfloor (Non-ACM) – 4th Layer, approximately 450 square feet, located at the Boy's & Girl's Restroom.

2. Asbestos-containing Yellow Mastic w/ Leveling Compound (**ACM**) on Wood Underlayment (Non-ACM) – 2nd Layer underneath the Patch Tan Stone Pebble Floor Sheeting (Non-ACM) – Top Layer; and asbestos-containing Black Mastic w/ Black Vapor Barrier (**ACM**) on Wood Subfloor (Non-ACM) – 4th Layer; under Resilient Sheet Flooring (Non-ACM) – 3rd Layer, approximately 40 square feet, located at Girl's Restroom.

a) The flooring and ancillary materials shall be removed to the wood floor joists.

2. Asbestos-containing Joint Compound (**ACM**) associated with Drywall Ceiling (Non-ACM), approximately 50 square feet, located in the Hopper Room.

3. Asbestos-containing Joint Compound (**ACM**) associated with Drywall Walls (Non-ACM), approximately 150 square feet, located in the Hopper Room.

4. Asbestos-containing 4" Pipe Insulation (**ACM**), approximately 40 linear feet, located at the Crawl Space of the Building.

5. Assumed asbestos-containing Fire Doors (**Assumed ACM**), approximately 4 doors, located throughout the building.

B. The work area involved is shown in the attached Figure 8.

VI. SANITARY RELOCATABLE (J0131M) – To be Demolish

A. Remove and dispose of a friable and hazardous asbestos waste, the following material(s):

1. Asbestos-containing Black Mastic (**ACM**) on Wood Subfloor (Non-ACM) – 2nd Layer underneath Red Sheet Flooring (**Non-ACM**) – Top Layer; with **Patch** 12"x12" Gray Floor Tile (**Non-ACM**), approximately 475 square feet, located at the Athletic Office .

2. Asbestos-containing Black Mastic w/ Black Vapor Barrier (**ACM**) on Wood Subfloor (Non-ACM) – 4th Layer; underneath Ceramic Floor Tile w/ Grout & Mortar (Non-ACM) – Top Layer; Leveling Compound (Non-ACM) on Wood Underlayment (Non-ACM) – 2nd Layer; Resilient Sheet Flooring (Non-ACM) – 3rd Layer, approximately 450 square feet, located at Boy's & Girl's Restroom.

a) The flooring and ancillary materials shall be removed to the wood floor joists.

3. Assumed asbestos-containing Fire Doors (**Assumed ACM**), approximately doors, located throughout the building.

B. The work area involved is shown in the attached Figure 9.

VII. SANITARY RELOCATABLE (J0219M) – To be Demolish

A. Remove and dispose of a friable and hazardous asbestos waste, the following material(s):

1. Asbestos-containing Black Mastic **(ACM)** on Wood Subfloor (Non-ACM) – 2nd Layer; underneath Red Sheet Flooring (**Non-ACM**) – Top Layer, approximately 300 square feet, located at the Hopper Room, Office, and Office Restroom.

2. Asbestos-containing Yellow Blue with Black Mastic (**ACM**) on Wood Underlayment (Non-ACM) – 2nd Layer underneath the **Patch** 12"x12" Brown Marble Floor Tile (Non-ACM) – Top Layer; approximately 50 square feet, located at Office.

    a) The flooring and ancillary materials shall be removed to the wood floor joists.

2. Asbestos-containing Joint Compound (**ACM**) associated with Drywall Ceiling (Non-ACM), approximately 50 square feet, located in the Hopper Room.

3. Asbestos-containing Joint Compound (**ACM**) associated with Drywall Walls (Non-ACM), approximately 150 square feet, located in the Hopper Room.

4. Assumed asbestos-containing Fire Doors (**Assumed ACM**), approximately 4 doors, located throughout the building.

B. The work area involved is shown in the attached Figure 10.

VIII. 2/3 UNIT RELOCATABLE (X0290L) – To be Demolish

A. Remove and dispose of a friable and hazardous asbestos waste, the following material(s):

1. Asbestos-containing Floor Tile – 12"x12" Dark Brown **(ACM) – 3rd Layer**; with Black Mastic (Non-ACM) on Wood Underlayment (Non-ACM) – 4th Layer; underneath 12"x12" Brown Floor Tile (Non-ACM) – Top Layer; w/ Black Mastic (Non-ACM) on Wood Underlayment (Non-ACM) – 2nd Layer; Resilient Sheet Flooring (Non-ACM) – 5th Layer; w/ Vapor Barrier / Black Mastic (Non-ACM) on Wood Subfloor (Non-ACM) – 6th Layer, approximately 1,800 square feet, located at the Room 9 & 10.

    a) The flooring and ancillary materials shall be removed to the wood floor joists.

2. Asbestos-containing containing Dash Coat Material on Pre-Cast Concrete Stairs (**ACCM**), approximately 75 square feet, located at Room 10 – N/W Exterior Stairs.

3. Asbestos-containing Drywall Ceiling (**ACM**) with associated Joint Compound (**ACM**), approximately 900 square feet, located in Room 9 above the 12"x12" Straight Holes Ceiling Tiles.

4. Assumed asbestos-containing Fire Doors (**Assumed ACM**), approximately 4 doors, located throughout the building.

B. Remove and dispose of as non-friable and non-hazardous waste, the following material(s):

1. Asbestos-containing ceiling tile mastic (**ACM**) associated with 12"x12" Straight Holes Ceiling Tiles (**Non-ACM**), approximately 900 square feet, located in Room 9.

2. Assumed asbestos-containing Whiteboards / Bulletin Boards Mastic (Assumed ACM), approximately 300 square feet, located in Rooms 9 & 10.

C. The work area involved is shown in the attached Figure 11.

IX. 2/3 UNIT RELOCATABLE (X0324L) – To be Demolish

A. Remove and dispose of a friable and hazardous asbestos waste, the following material(s):

1. Asbestos-containing Joint Compound (**ACM**) with associated Drywall Ceiling (**Non-ACM**), approximately 1,800 square feet, located in Rooms 11 & 12 above the 12”x12” Straight Holes Ceiling Tiles.

4. Assumed asbestos-containing Fire Doors (**Assumed ACM**), approximately 4 doors, located throughout the building.

B. Remove and dispose of as non-friable and non-hazardous waste, the following material(s):

1. Assumed asbestos-containing Whiteboards / Bulletin Boards Mastic (**Assumed ACM**), approximately 300 square feet, located in Rooms 11 & 12.

C. The work area involved is shown in the attached Figure 12.

X. 2/3 UNIT RELOCATABLE (X0396L) – To be Demolish

A. Remove and dispose of a friable and hazardous asbestos waste, the following material(s):

1. Asbestos-containing Felt Paper w/ Black Mastic **(ACM) on Wood Subfloor (Non-ACM) – 4th Layer**; underneath 12”x12” Brown w/ Brown & White Floor Tile (Non-ACM) – Top Layer; w/ Black Mastic (Non-ACM) & Leveling Compound (Non-ACM) on Wood Underlayment (Non-ACM) – 2nd Layer; Resilient Sheet Flooring (Non-ACM) – 3rd Layer, approximately 1,800 square feet, located at the Rooms 6 & 7.

a) The flooring and ancillary materials shall be removed to the wood floor joists.

2. Asbestos-containing Joint Compound (**ACM**) associated with Drywall Ceiling (**Non-ACM**), approximately 1,800 square feet, located in Rooms 6 & 7 above the 12”x12” Straight Holes Ceiling Tiles.

3. Assumed asbestos-containing Fire Doors (**Assumed ACM**), approximately 4 doors, located throughout the building.

B. Remove and dispose of as non-friable and non-hazardous waste, the following material(s):

1. Asbestos-containing ceiling tile mastic (**ACM**) associated with 12”x12” Straight Holes Ceiling Tiles (ACM), approximately 1,800 square feet, located in Rooms 6 & 7.

2. Asbestos-containing Cement "Transite" Transom (ACM), approximately 6 square feet, located at Room 6 – Door Transom.

3. Assumed asbestos-containing Whiteboards / Bulletin Boards Mastic (Assumed ACM), approximately 300 square feet, located in Rooms 6 & 7.

C. The work area involved is shown in the attached Figure 13.

X. GROUNDS / ASPHALT (8571-G)

A. ACCM Asphalt – Area #6 (West of Portable Buildings A0797W & A0978W) and Area #8 (Between & Around Portables A795W & A0797W)

1. Remove and dispose of as non-friable and non-hazardous asbestos waste the following materials:

a) Large sections or large segments of asbestos-containing construction material (ACCM) asphalt paving, approximately 5,980 square feet. Remove all asphalt layers down to aggregate base or native soil if no aggregate is present.

2. Remove and dispose of as friable and hazardous asbestos waste the following materials:

a) Asbestos-containing construction material (ACCM) asphalt paving "debris", approximately 500 square feet. After removal of all larger sections or segments of asphalt, the remaining associated debris and loose soil shall be cleaned up using hand tools, wet methods, and/or HEPA vacuum and shall be disposed as friable hazardous asbestos waste.

3. The Abatement Contractor shall remove the asphalt paving sections or segments utilizing heavy equipment (bobcat, backhoe, etc.), manual tools, and wet methods.

4. When saw cutting is performed continuous use of HEPA vacuuming and wet methods shall be utilized. The waste shall be disposed as friable hazardous asbestos waste.

5. Visual Clearance by a District Representative and/or a Certified Asbestos Consultant shall be performed upon completion of the work.

B. ACCM Asphalt – Patch #10 (Southwest of Sanitary Building – J0121L); Areas #12 & #13 (East of Visitor's Bleachers)

1. Remove and dispose of as non-friable and non-hazardous asbestos waste the following materials:

a) Large sections or large segments of asbestos-containing construction material (ACCM) asphalt paving, approximately 10,580 square feet. Remove all asphalt layers down to aggregate base or native soil if no aggregate is present.

2. Remove and dispose of as friable and hazardous asbestos waste the following materials:

   a) Asbestos-containing construction material (ACCM) asphalt paving "debris", approximately 1,500 square feet. After removal of all larger sections or segments of asphalt, the remaining associated debris and loose soil shall be cleaned up using hand tools, wet methods, and/or HEPA vacuum and shall be disposed as friable hazardous asbestos waste.

3. The Abatement Contractor shall remove the asphalt paving sections or segments utilizing heavy equipment (bobcat, backhoe, etc.), manual tools, and wet methods.

4. When saw cutting is performed continuous use of HEPA vacuuming and wet methods shall be utilized. The waste shall be disposed as friable hazardous asbestos waste.

5. Visual Clearance by a District Representative and/or a Certified Asbestos Consultant shall be performed upon completion of the work.

C. ACCM Asphalt – Area #15 (South Side of Relocatable Building X0290L)

1. Remove and dispose of as non-friable and non-hazardous asbestos waste the following materials:

   a) Large sections or large segments of asbestos-containing construction material (ACCM) asphalt paving, approximately 980 square feet. Remove all asphalt layers down to aggregate base or native soil if no aggregate is present.

2. Remove and dispose of as friable and hazardous asbestos waste the following materials:

   a) Asbestos-containing construction material (ACCM) asphalt paving "debris", approximately 100 square feet. After removal of all larger sections or segments of asphalt, the remaining associated debris and loose soil shall be cleaned up using hand tools, wet methods, and/or HEPA vacuum and shall be disposed as friable hazardous asbestos waste.

3. The Abatement Contractor shall remove the asphalt paving sections or segments utilizing heavy equipment (bobcat, backhoe, etc.), manual tools, and wet methods.

4. When saw cutting is performed continuous use of HEPA vacuuming and wet methods shall be utilized. The waste shall be disposed as friable hazardous asbestos waste.

5. Visual Clearance by a District Representative and/or a Certified Asbestos Consultant shall be performed upon completion of the work.

D. ACCM Asphalt – Area #18 (West of Sanitary Relocatable J0219L)

1. Remove and dispose of as non-friable and non-hazardous asbestos waste the following materials:

a) Large sections or large segments of asbestos-containing construction material (ACCM) asphalt paving, approximately 5,000 square feet. Remove all asphalt layers down to aggregate base or native soil if no aggregate is present.

2. Remove and dispose of as friable and hazardous asbestos waste the following materials:

a) Asbestos-containing construction material (ACCM) asphalt paving "debris", approximately 500 square feet. After removal of all larger sections or segments of asphalt, the remaining associated debris and loose soil shall be cleaned up using hand tools, wet methods, and/or HEPA vacuum and shall be disposed as friable hazardous asbestos waste.

3. The Abatement Contractor shall remove the asphalt paving sections or segments utilizing heavy equipment (bobcat, backhoe, etc.), manual tools, and wet methods.

4. When saw cutting is performed continuous use of HEPA vacuuming and wet methods shall be utilized. The waste shall be disposed as friable hazardous asbestos waste.

5. Visual Clearance by a District Representative and/or a Certified Asbestos Consultant shall be performed upon completion of the work.

E. ACCM Asphalt – Area #21 (N/W of Shop Building #1)

1. Remove and dispose of as non-friable and non-hazardous asbestos waste the following materials:

a) Large sections or large segments of asbestos-containing construction material (ACCM) asphalt paving, approximately 4,500 square feet. Remove all asphalt layers down to aggregate base or native soil if no aggregate is present.

2. Remove and dispose of as friable and hazardous asbestos waste the following materials:

a) Asbestos-containing construction material (ACCM) asphalt paving "debris", approximately 500 square feet. After removal of all larger sections or segments of asphalt, the remaining associated debris and loose soil shall be cleaned up using hand tools, wet methods, and/or HEPA vacuum and shall be disposed as friable hazardous asbestos waste.

3. The Abatement Contractor shall remove the asphalt paving sections or segments utilizing heavy equipment (bobcat, backhoe, etc.), manual tools, and wet methods.

4. When saw cutting is performed continuous use of HEPA vacuuming and wet methods shall be utilized. The waste shall be disposed as friable hazardous asbestos waste.

5. Visual Clearance by a District Representative and/or a Certified Asbestos Consultant shall be performed upon completion of the work.

F. Grounds / Asphalt Areas (8571-G)

1. Remove and dispose of as non-hazardous asbestos waste the following material:

a) Assumed asbestos-containing cement "Transite" pipe (**Assumed ACM**) which could be buried in the soil after asphalt removal, approximately 1,000 square feet.

b) If damaged assumed asbestos-containing cement "Transite" pipe is discovered, an approved South Coast Air Quality Management District (SCAQMD) Procedure 5 work plan will be required where alternative combination of techniques and/or engineering controls are going to be used.

G. The work areas involved is shown in the attached Figure 14.

XI. PEELING AND LOOSE PAINT

A. The buildings and grounds involved with this project were built as follows:

Boiler Building (001COH / 24183)
Cafeteria Building / Lunch Pavilion (006CAM / 22637)
Classroom Building #5 (007DAL / 23422)
Shop Building #1 (008CAF / 24628)
Storage Unit #1 (014DOP / 36483)
Text Book Storage / Parent Center (026DAM)
Bleachers #1 (019GOM / 20284)
Bleachers #2 (018GOM / 20644)
Bleachers #3 (020GOM / 20643)
Bleachers #4 (021GOM / 20656)
Ticket Booth (2446)
Standard Classroom Relocatable A-795 (A0795W)
Standard Classroom Relocatable A-796 (A0796W)
Standard Classroom Relocatable A-797 (A0797W)
Standard Classroom Relocatable A-798 (A0798W)
Sanitary Relocatable J-120 (J0120L)
Sanitary Relocatable J-131 (J0131M)
Sanitary Relocatable J-219 (J0219M)
2/3 Unit Relocatable AA-290 (X0290L)
2/3 Unit Relocatable AA-293 (X0293L)
2/3 Unit Relocatable AA-324 (X0324L)
2/3 Unit Relocatable AA-396 (X0396L)
Grounds (3932-G) – Asphalt Paving

B. Renovation, repair or painting work performed on buildings regardless of the date of construction shall require special handling and environmental monitoring when coated surfaces including, but not limited to, painted, varnished, and glazed surfaces are impacted. All coated surfaces are assumed to be lead-based. All work shall be performed in compliance with Facilities Standard Specification,

Section 02 8333, "Lead Abatement and Lead Related Construction Work." XRF testing methodology is not acceptable in determining negative for lead content for Cal/OSHA compliance purposes, except for notification requirements. XRF may be used in determining lead-based paint for compliance with the U.S.E.P.A. Renovator, Repair, and Painting Rule. Disturbance of coated surfaces by contractors will be monitored by qualified District staff or Environmental Consultant sufficient to ensure that proper training and work procedures, cleanup, and waste handling are employed.

C. Loose or flaky paint that will be disturbed during the work of this project or in close proximity of the work area shall be stabilized by removing the loose or flaky paint and leaving only paint in stable condition.

D. It should be noted that any coated surfaces and building materials not listed above are to be considered to be lead-based and asbestos-containing respectively. Should the project require the disturbance of these surfaces and building materials, the FETU shall be notified.

E. All varnished and/or painted wood baseboards located in the impacted building shall be waste characterized prior to remove from site.

XII. All work involving asbestos-containing materials shall be performed in accordance with the attached specifications "Section 02 8213 – Asbestos Abatement and Asbestos Related Disturbance" as prepared by the Los Angeles Unified School District.

XIII. All work involving lead-based and/or lead-containing materials shall be performed in accordance with the attached specifications "Section 02 8333– Lead Abatement and Lead Related Construction Work" as prepared by the Los Angeles Unified School District.

XIV. All work involving asbestos-containing floor tiles and associated mastic materials shall be performed in accordance with the attached specifications "Section 02 8216 – Asbestos Abatement of Non-Friable Floor Tiles" as prepared by the Los Angeles Unified School District.

All work involving asbestos-containing roofing materials shall be performed in accordance with the attached specifications "Section 02 8219 – Asbestos Abatement of Non-Friable Roofing Material" as prepared by the Los Angeles Unified School District.

XV. All work involving asbestos-containing asphalt paving materials shall be performed in accordance with the attached specifications "Section 02 8223 – Removal of Asbestos-Containing Asphalt" as prepared by the Los Angeles Unified School District.

Only contractors on the LAUSD Approved list of Asbestos Abatement Contractors are qualified to perform asbestos abatement on District projects.

I. GENERAL

A. The following special conditions shall take precedence over the standard specifications. The drawings included with these specifications show the plot and floor plans of the work areas.

B. Abatement contractor shall be responsible for verifying all dimensions / quantities prior to bid. Any amounts listed on these specifications are only estimated and are not to be considered final measurements / quantities.

C. Abatement contractor shall provide a secured and separate storage for all materials, equipment, and waste.

D. Abatement contractor shall physically secure all entrances and opening to work areas until final clearance is received, as approved by the District representative.

E. Maintain regulated area security during abatement work. Regulated areas and ancillary equipment accessible to non-authorized personnel shall be protected from unauthorized aces by constructing at a minimum barrier with ceiling of 3/8 inch CDX plywood supported by 2 by 4 studs, 16 inches on center. Height shall be as required to safely access the regulated area. An access door shall be provided with hasp and padlock sufficient to prevent unauthorized entry and a key shall be provided to the District representative. Required barrier within an occupied building shall be furnished with sheeting as required by state and local fire protection regulations.

F. In addition to the project specification submittal requirements, the Abatement contractor shall submit for review and approval an asbestos abatement work plan. The asbestos work plan shall detail the means and methods that will be used for controlling and containing fiber release during the removal/disturbance of asbestos containing material in accordance with the project specifications. The plan shall include, but not be limited to, a drawing that adequately depicts the location of asbestos control areas, change areas, emergency exit routes and exits, and any special features (e.g. critical barriers, pony walls, air filtration units, makeup air, air filtration unit exhaust, decontamination units, load out/bag out units, etc.).

G. The Abatement Contractor and/or lead-trained General or Sub-Contractors shall also submit a Lead Related Disturbance Work Plan. The Lead Work Plan shall detail the means and methods that will be used for controlling and containing lead dust released during removal / disturbance of assumed lead containing building components in accordance with project specifications. The plan shall include, but no limited to, a drawing that adequately depicts the locations of lead control areas, emergency exit routes, make-up air, air filtration unit exhaust, decontamination units, and load-out / bag-out units, etc.

H. The abatement contractor shall not proceed with the disturbance of ACM/ACCM until the asbestos work plan and written work schedule have been approved by a District representative in writing.

I. Abatement contractor shall post the proper warning signs and labels in both English and Spanish at entrances to work area(s).

J. It is anticipated the Contractor shall perform work after school hours during the school is in session unless approved by the District.

K. Noise from the work process shall not interfere with the normal and scheduled day or evening school activities. Work schedule will be determined with the involvement of the school staff at the job start meeting.

L. Contractor must be in full compliance with all city ordinances at all times throughout the duration of the project. At the commencement of the project, all Contract Documents, Project Manual and Specifications shall be on site and remain until the completion of the project.

M. All furniture and equipment in the work area involved will be removed by District personnel prior to the start of abatement work, to be scheduled by the OAR.

N. Asbestos Contractor awarded the project shall notify SCAQMD (South Coast Air Quality Management District) ten working days prior to the start of abatement.

II. SITE SPECIFIC CONDITIONS FOR ACM/ACCM REMOVAL

A. Load out and transportation of waste or materials shall not be performed when students are present.

B. The abatement contractor shall demarcate the work area to warn unauthorized persons from entering the workspace(s).

C. All surfaces throughout the work area(s) shall be thoroughly pre-cleaned.

D. All cabinets (wall, sick, countertops, etc.) throughout the work area(s) shall be remove prior to start of the abatement work.

E. Contractor shall clean and cover with an airtight seal all porous, dropped, or perforated ceiling systems, including any vents, air circulating units, and registers (where the air handling system is turned off), in the work area, with 6-mil polyethylene sheeting, sealed around all edges.

F. Where applicable, Abatement Contractor shall install a hard barrier security system around the three (3) stage decontamination unit at each abatement work area for this project and prior to commencing work. The hard barrier security system shall not interfere with closing of any doors. The door(s) shall be locked when the work site is unattended such as during breaks and lunch and at the end of the workday.

G. Abatement Contractor shall install transparent viewing ports, which allow outside observation of all stripping and removal of ACM/ACCM.

H. All electrical and mechanical equipment, including but not limited to, gauges, valves, etc., throughout the work areas involved shall not be encapsulated or a lockdown applied. These items shall be decontaminated, left in place, and protected during the duration of the contract.

I. Dustpans, squeegees, shovels, etc. shall be non-metallic. Use of wire brushes and brooms are specifically prohibited.

J. Flooring Mastic on Concrete Substrate:

A. In addition to the above requirements, the removal of the flooring, if applicable, shall be performed under a Class I regulated work area in compliance with District Specifications 02 8213, "Asbestos Abatement and Asbestos Related Disturbance" as follows:

i. The barriers used for the construction of the isolated work area shall be equipped with transparent viewing ports which allow outside observation of all stripping and removal of ACM.
ii. The security of the work area shall be maintained at all times by constructing a hard barrier with a plywood ceiling. For more details, see District Specification 02 8213.
iii. Mastic shall be removed by using a District approved chemical solvent to remove floor mastic (Sentinel 747 Mastic Remover [Fresh Scent]) in conjunction with a SCAQMD-permitted mechanical buffer. The buffer must be registered with SCAQMD. Mastic around the edges of the room and non-removable objects must be removed manually or with a SCAQMD-permitted grinder. Once the mastic removal is complete, the contractor shall wash the floor thoroughly with 805 Envirowash Final Surface Cleaner and wipe down the floor. A visual inspection, prior to the application of the lockdown with white color additive, must be conducted to ensure no residual (three dimensional) mastic remains.
iv. The abatement contractor shall use LAUSD approved Foster Lockdown 32-60 Blue encapsulant for lockdown, after visual inspection by the Owner and/or Owner Representative.
v. Flooring materials and related waste, including mastic, polyethylene sheeting, respirator filters, absorbent rags and cleaning pads, etc., must be disposed of as friable asbestos waste.

K. Air filtration units

1. Where applicable, the abatement contractor shall install secured hard lid covers on windows used for air filtration exhaust ducting. The abatement contractor shall maintain the integrity of the hard lid covers and air filtration flex ducts at all times.

2. Where applicable, the abatement contractor shall extend the air filtration flex exhaust ducting to the roofline of the building, away from any opening and/or at least maintain a height of 10 feet.

L. Where applicable, abatement contractor can build a bag-out chamber with a minimum of two (2) interlocking decontaminated units. The bag-out chamber shall be made with 6-mil polyethylene sheeting and shall not interfere with opening and/or closing of any doors.

M. Air monitoring during the abatement process will be required for this project.

N. Clearance Air Monitoring

1. The District shall arrange for sampling of the air in the work area(s) for airborne fiber concentration.

2. When all air samples collected from each work area(s) indicate concentration of airborne fibers within the limits of 40 CFR, Part 763, Sub-part E (AHERA), a release of each work area will be provided.

3. Areas exceeding this level shall require additional cleaning and retesting until satisfactory levels are obtained in accordance with this section. Contractor shall be responsible for the cost of all subsequent clearance air monitoring and analysis resulting from the failure to receive initial clearance.

III. SITE SPECIFIC CONDITIONS FOR CRAWL SPACE

A. Crawl Space

1. All trash and debris, including but not limited to, pipe insulation, fiberglass, wood, paper products, cloth, plastic, etc., throughout the crawl space area shall be removed and disposed of as hazardous asbestos contaminated waste.

2. Abatement contractor shall remove all debris from, but not limited to, crevices, irregular surfaces, and other voids that are unique to the crawl space area.

3. Prior to start of the asbestos removal work, all electrical equipment, including but not limited to, junction boxes, cable connections, etc., shall be pre-cleaned and wrapped with one (1) layer of six (6)-mil polyethylene sheeting and seal with duct tape. This layer shall be removed after air clearance has been achieved.

4. Raw ends of unabated asbestos containing pipe insulation left inside walls or other cavities in the work areas, where applicable, shall be sealed with canvas and a high temperature bridging agent. Abatement contractor shall use a District approved material.

5. Holes, crevices, and other openings (where applicable) unique to the crawl space shall be sealed with a District approved expandable insulating foam sealant prior to commencement of abatement but after pre-cleaning.

B. Load out and transportation of waste or materials shall not be performed when students are present.

C. The abatement contractor shall demarcate the work area to warn unauthorized persons from entering the workspace(s).

D. Construction of a 3-stage decontamination unit shall be set up at the entrance to the crawl space area. The decontamination chambers shall be enclosed in a hard barrier enclosure. The hard barrier enclosure shall not interfere with closing of any doors.

E. Where applicable, any exterior work which results in a containment for abatement work, must follow the requirements as set forth in Section 02 8213 (Asbestos Abatement and Asbestos Related Disturbances), Part 1.05(E).

F. Air filtration units

1. Where applicable, the abatement contractor shall install secured hard lid enclosures around air filtration units and always maintain the integrity of the hard lid enclosures.

2. In addition to the requirements of the standard specifications, removal shall not commence until the work area is fully isolated and the stipulated negative pressure differential established. Manometer input terminal (tube) must be located away from the intake of any air filtration unit.

G. Clearance Air Monitoring

1. The District shall arrange for sampling of the air in the work area(s) for airborne fiber concentration.

2. When all air samples collected from each work area(s) indicate concentration of airborne fibers within the limits of 40 CFR, Part 763, Sub-part E (AHERA), a release of each work area will be provided.

3. Areas exceeding this level shall require additional cleaning and retesting until satisfactory levels are obtained in accordance with this section. Contractor shall be responsible for the cost of all subsequent clearance air monitoring and analysis resulting from the failure to receive initial clearance.

4. Products (i.e. encapsulant) used during this project shall be reviewed by the consultant as part of the pre-job submittals and verified that they are approved by OEHS.

IV. CLOSE-OUT DOCUMENTS

A. The contractor shall provide the District all of the following documents:

1. Filter change logs for all respirators
2. Foreman’s daily job report
3. Employee’s entry/exit logs for all containments
4. Visitor’s entry/exit logs for all containments
5. Air samples for personnel
6. Copy of any waste manifest(s)
7. All signed LAUSD Contractor-Daily Personnel Report Forms
8. Signed Code of Conduct form, from each employee working on this project
9. Signed LAUSD Asbestos Abatement Project Personnel Logs

B. Abatement contractor shall have thirty (30) working days after tear-down of the last work area containment to submit the required close out documents.

This report may not be changed, modified or include additions without the express written permission from the FETU.

END OF SECTION

CANOGA PARK HIGH SCHOOL (8571)

PLOT PLAN

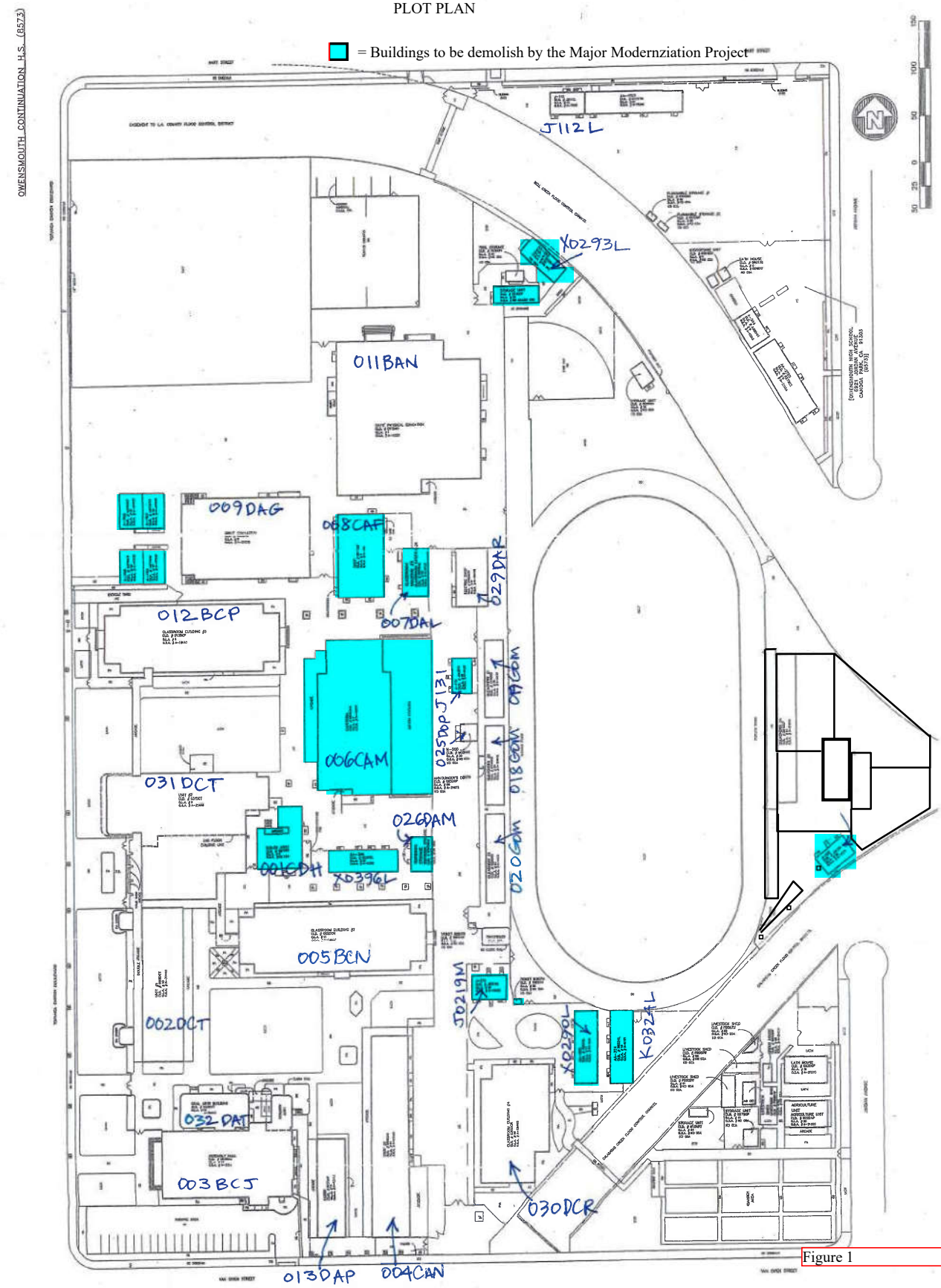


Figure 1

LOS ANGELES SCHOOL DISTRICT

DIAGRAM OF BUILDING AREAS

SCHOOL: CANOGA PARK HIGH SCHOOL

ADDRESS: 6850 TOPANGA CANYON BLVD.
CANOGA PARK, CA 91303

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

LOCATION 8571

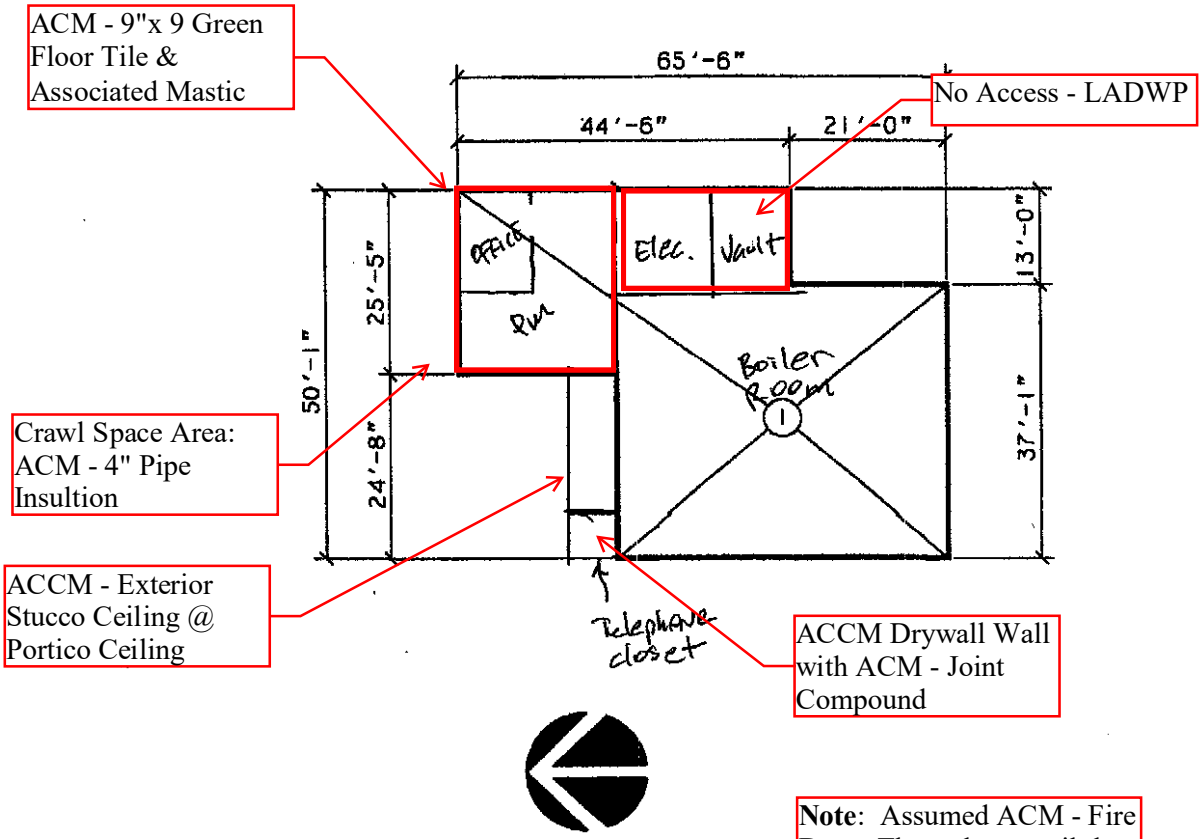
APPLICATION NO. 22/

DRAWING CAP09F1

BUILDING 9

PLOT PLANS AND ALLOTMENTS UNIT
IBM TOWER - ROOM 420

BOILER VAULT BUILDING
(001COH)



Note: Assumed ACM - Fire Doors Throughout until they are Tested.

PLOT SCALE: 1"=20'-0"

AUTHORIZED AGENT
LOS ANGELES UNIFIED SCHOOL DISTRICT

Figure 2

LOS ANGELES SCHOOL DISTRICT

DIAGRAM OF BUILDING AREAS

SCHOOL: CANOGA PARK HIGH SCHOOL

ADDRESS: 6850 TOPANGA CANYON BLVD.
CANOGA PARK, CA 91303

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

LOCATION 8571

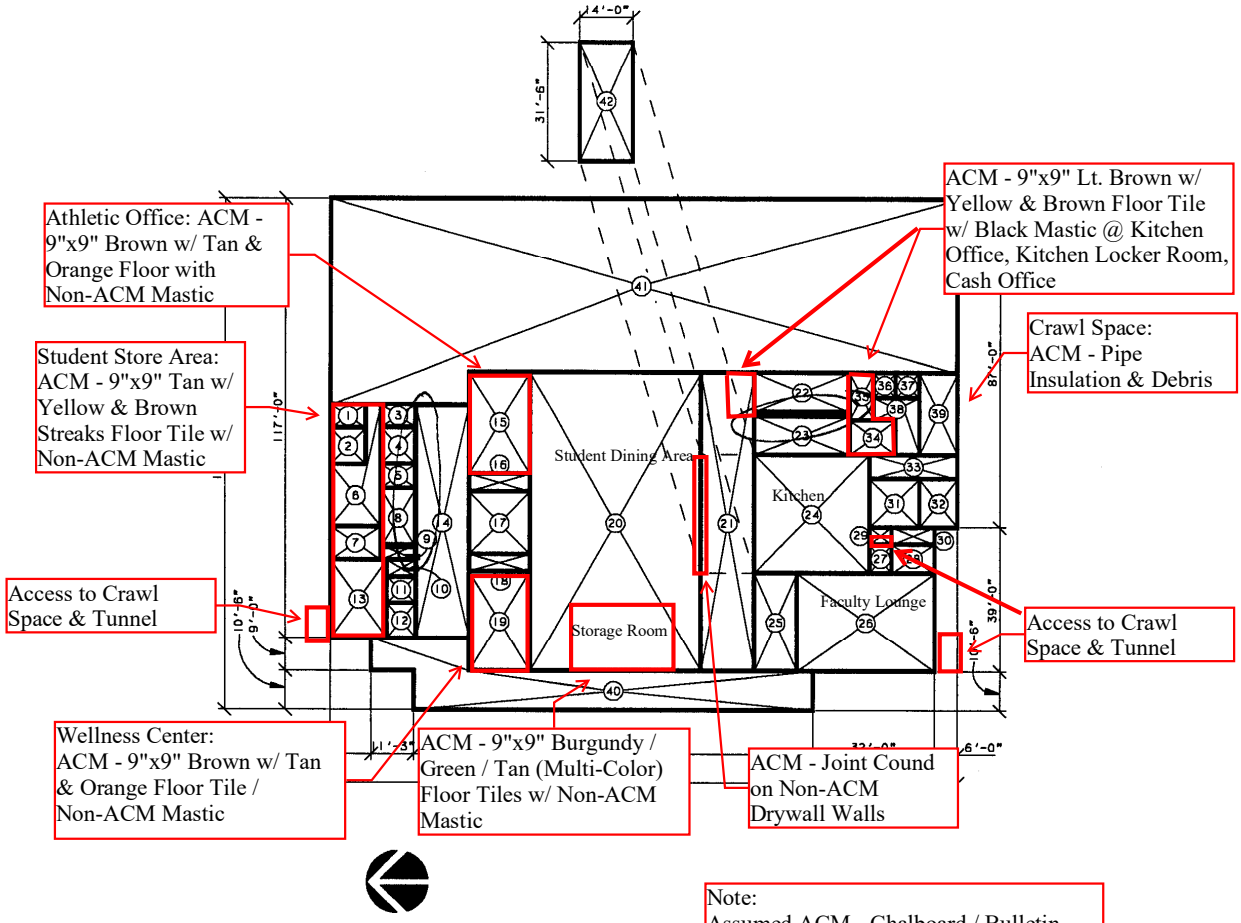
APPLICATION NO. 22/

DRAWING CAP07F1

BUILDING 7

PLOT PLANS AND ALLOTMENTS UNIT
IBM TOWER - ROOM 420

CAFETERIA BUILDING / LUNCH PAVILION
(006CAM)



PLOT SCALE: 1"=40'-0"

AUTHORIZED AGENT
LOS ANGELES UNIFIED SCHOOL DISTRICT

Figure 3

LOS ANGELES SCHOOL DISTRICT

DIAGRAM OF BUILDING AREAS

SCHOOL: CANOGA PARK HIGH SCHOOL

ADDRESS: 6850 TOPANGA CANYON BLVD.
CANOGA PARK, CA 91303

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

LOCATION 8571

APPLICATION NO. 22/

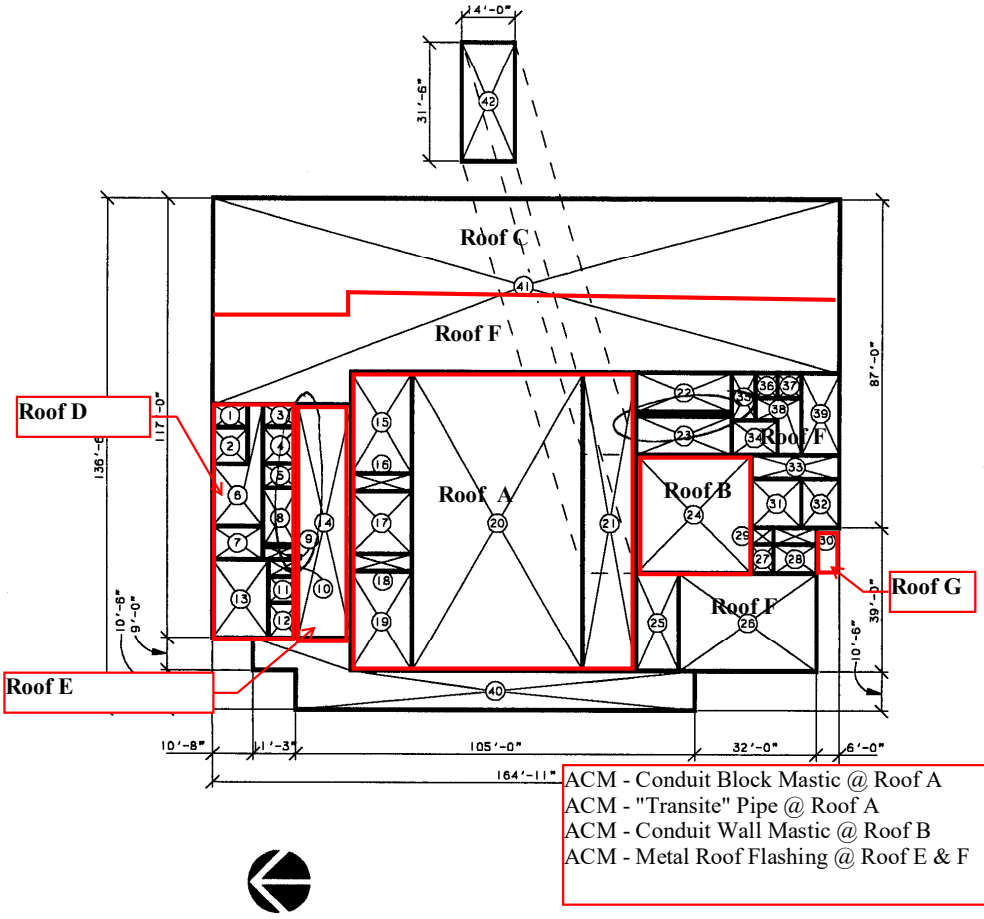
DRAWING CAP07F1

BUILDING 7

PLOT PLANS AND
ALLOTMENTS UNIT
IBM TOWER - ROOM 420

CAFETERIA BUILDING / LUNCH PAVILION
(006CAM)

Roof System



ACM - Conduit Block Mastic @ Roof A
ACM - "Transite" Pipe @ Roof A
ACM - Conduit Wall Mastic @ Roof B
ACM - Metal Roof Flashing @ Roof E & F

PLOT SCALE: 1"=40'-0"

AUTHORIZED AGENT
LOS ANGELES UNIFIED SCHOOL DISTRICT

Figure 4

LOS ANGELES SCHOOL DISTRICT
DIAGRAM OF BUILDING AREAS

SCHOOL: CANOGA PARK HIGH SCHOOL

ADDRESS: 6850 TOPANGA CANYON BLVD.
CANOGA PARK, CA 91303

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

LOCATION 8571

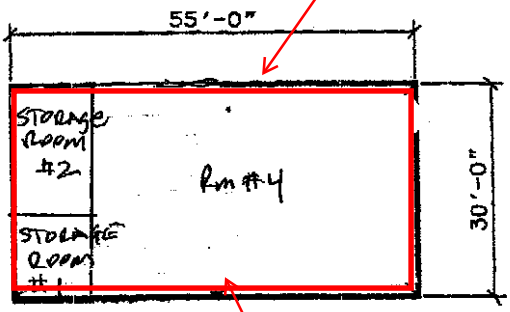
APPLICATION NO. 22/

DRAWING CAP43F.1

BUILDING 43

PLOT PLANS AND ALLOTMENTS UNIT
ISM TOWER - ROOM 420

CLASSROOM BUILDING #5
(007DAL)



ACM - Window Putty

ACCM Joint Compound on Non-ACM Drywall Ceiling (Above 12"x12" Ceiling Tiles

ACM - Black Mastic associated with 12" x12" Tan Marble Floor Tile

Assumed ACM - Chalkboard / Bulletin Board Mastic

Assumed ACM - Fire Doors

PLOT SCALE: 1"=20'-0"

AUTHORIZED AGENT
LOS ANGELES UNIFIED SCHOOL DISTRICT

Figure 5

LOS ANGELES SCHOOL DISTRICT

DIAGRAM OF BUILDING AREAS

LOCATION 8571

APPLICATION NO. 22/

DRAWING CAP04F1

SCHOOL: CANOGA PARK HIGH SCHOOL

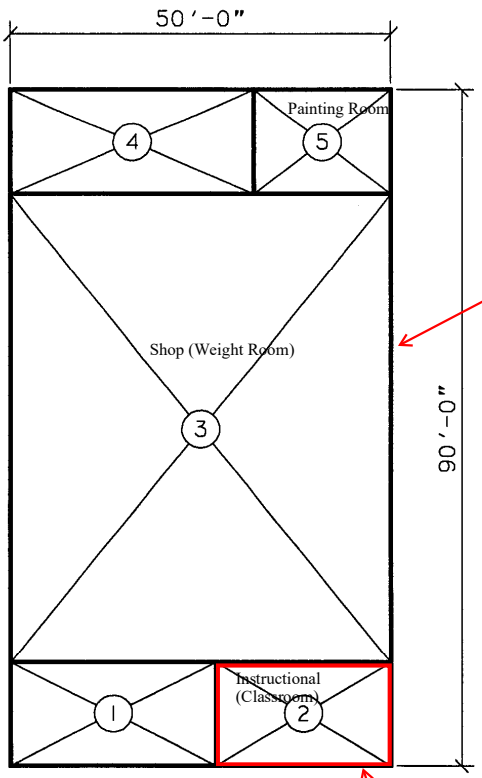
ADDRESS: 6850 TOPANGA CANYON BLVD.
CANOGA PARK, CA 91303

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

BUILDING 4

PLOT PLANS AND ALLOTMENTS UNIT
IBM TOWER - ROOM 420

SHOP BUILDING #1
(008CAF)



ACM - Window Putty

Assumed ACM - Cement "Transite" Window Transoms

Assumed ACM - Mirror Mastic

Note:
ACCM - Dash Coat Material on the Exterior Walls
Assumed ACM - Whiteboard / Bulletin Board Mastic
Assumed ACM - Fire Doors

ACM - Joint Compound on Non-ACM Drywall Ceiling (Above the 12"x12" Ceiling Tiles

ACM - Black Mastic associated with 12"x12" Brown Marble & Lt. Brown (Mix) Floor Tile along with Patch - 12"x12" Red Floor Tile

ACCM - Joint Compound on Non-ACM Unfinished Drywall @ Attic Space above the Instructional (Classroom) Area

PLOT SCALE: 1"=20'-0"

AUTHORIZED AGENT
LOS ANGELES UNIFIED SCHOOL DISTRICT

Figure 6

LOS ANGELES SCHOOL DISTRICT

DIAGRAM OF BUILDING AREAS

LOCATION 8571

APPLICATION NO. 22/

DRAWING CAP28F1

SCHOOL: CANOGA PARK HIGH SCHOOL

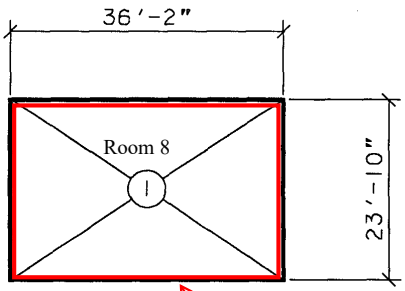
ADDRESS: 6850 TOPANGA CANYON BLVD.
CANOGA PARK, CA 91303

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

BUILDING 28

PLOT PLANS AND
ALLOTMENTS UNIT
IBM TOWER - ROOM 420

TEXTBOOK STORAGE BUILDING / PARENT CENTER
(026DAM)



ACM - Black Mastic associated with Non-ACM 12" x12" Lt. Brown w/ Brown & White Floor Tile

ACM - Ceiling Tile Mastic associated with Non-ACM 12"x12" Straight Holes Ceiling Tiles

ACM - Joint Compound on Non-ACM Drywall Ceiling above the 12"x12" Ceiling Tiles

Assumed ACM - Chalkboard / Bulletin Board Mastic

Assumed ACM - Fire Doors

PLOT SCALE: 1"=20'-0"

AUTHORIZED AGENT
LOS ANGELES UNIFIED SCHOOL DISTRICT

Figure 7

LOS ANGELES SCHOOL DISTRICT

DIAGRAM OF BUILDING AREAS

SCHOOL: CANOGA PARK HIGH SCHOOL

ADDRESS: 6850 TOPANGA CANYON BLVD.
CANOGA PARK, CA 91303

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

LOCATION 8571

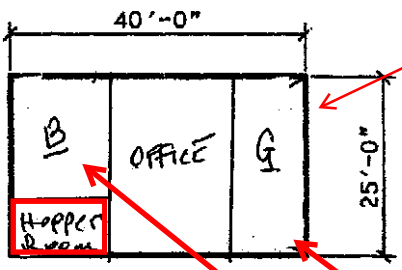
APPLICATION NO. 22/

DRAWING CAP22F1

BUILDING 22

PLOT PLANS AND ALLOTMENTS UNIT
IBM TOWER - ROOM 420

SANITARY RELOCATABLE BUILDING
(J0120L)



ACM - Pipe Insulation @ Crawl Space

ACM - Joint Compound on Non-ACM Drywall Ceiling

ACM - Joint Compound on Non-ACM Drywall Walls

ACM - Brown Pebble Floor Sheeting (Top Layer) and ACM - Black Mastic associated Sheet Flooring (3rd Layer)

ACM - Yellow Mastic w/ Leveling Compound (2nd Layer) and ACM - Black Mastic w/ Felt Vaper Barrier on Wood Sub-Floor

PLOT SCALE: 1"=20'-0"

AUTHORIZED AGENT
LOS ANGELES UNIFIED SCHOOL DISTRICT

Figure 8

LOS ANGELES SCHOOL DISTRICT
DIAGRAM OF BUILDING AREAS

SCHOOL: CANOGA PARK HIGH SCHOOL

ADDRESS: 6850 TOPANGA CANYON BLVD.
CANOGA PARK, CA 91303

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

LOCATION 8571

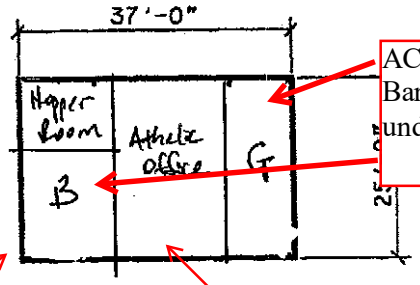
APPLICATION NO. 22/

DRAWING CAP31F1

BUILDING 31

PLOT PLANS AND ALLOTMENTS UNIT
IBM TOWER - ROOM 420

SANITARY RELOCATABLE BUILDING
(J0131M)



ACM - Black Mastic w/ Black Vapor Barrier on Wood Subfloor (4th Layer) under the Ceramic Floor Tiles

Assumed ACM - Fire Doors

ACM - Black Mastic on Wood Subfloor (2nd Layer) and Patch Non-ACM - 12"x12"Gray Floor Tile

PLOT SCALE: 1"=20'-0"

AUTHORIZED AGENT
LOS ANGELES UNIFIED SCHOOL DISTRICT

Figure 9

LOS ANGELES SCHOOL DISTRICT

DIAGRAM OF BUILDING AREAS

SCHOOL: CANOGA PARK HIGH SCHOOL

ADDRESS: 6850 TOPANGA CANYON BLVD.
CANOGA PARK, CA 91303

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

LOCATION 857

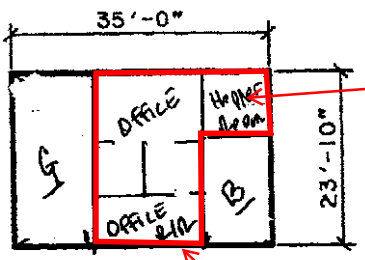
APPLICATION NO. 22/

DRAWING CAP29F1

BUILDING 29

PLOT PLANS AND ALLOTMENTS UNIT
IBM TOWER - ROOM 420

SANITARY RELOCATABLE BUILDING
(J0219M)



Hopper Room:
ACM - Joint Compound on Non-ACM Drywall Ceiling
ACM - Joint Compound on Non-ACM Drywall Walls

Assumed ACM - Fire Doors

ACM - Black Mastic on Wood Subfloor (2nd Layer) and Yellow Glue w/ Black Mastic on Wood Subfloor (2nd Layer)

PLOT SCALE: 1"=20'-0"

AUTHORIZED AGENT
LOS ANGELES UNIFIED SCHOOL DISTRICT

Figure 10

LOS ANGELES SCHOOL DISTRICT

DIAGRAM OF BUILDING AREAS

SCHOOL: CANOGA PARK HIGH SCHOOL

ADDRESS: 6850 TOPANGA CANYON BLVD.
CANOGA PARK, CA 91303

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

LOCATION 8571

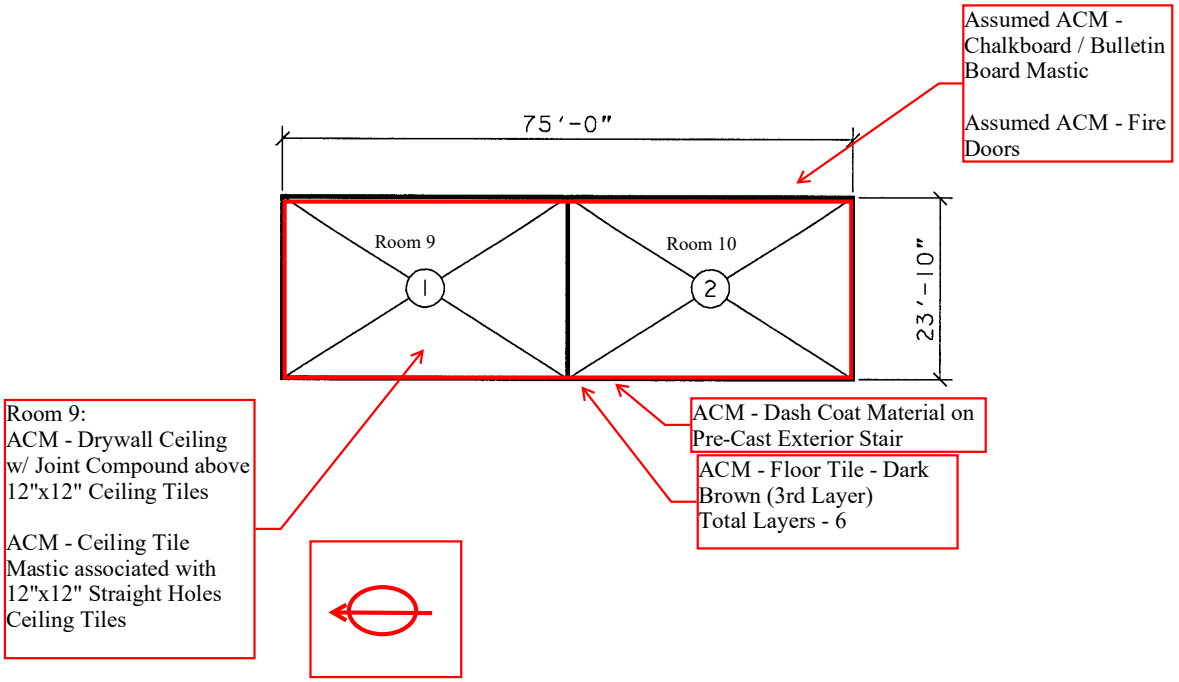
APPLICATION NO. 22/

DRAWING CAP17F1

BUILDING 17

PLOT PLANS AND ALLOTMENTS UNIT
IBM TOWER - ROOM 420

2/3 UNIT RELOCATABLE BUILDING
(X0290L)



PLOT SCALE: 1"=20'-0"

AUTHORIZED AGENT
LOS ANGELES UNIFIED SCHOOL DISTRICT

Figure 11

LOS ANGELES SCHOOL DISTRICT

DIAGRAM OF BUILDING AREAS

SCHOOL: CANOGA PARK HIGH SCHOOL

ADDRESS: 6850 TOPANGA CANYON BLVD.
CANOGA PARK, CA 91303

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

LOCATION 8571

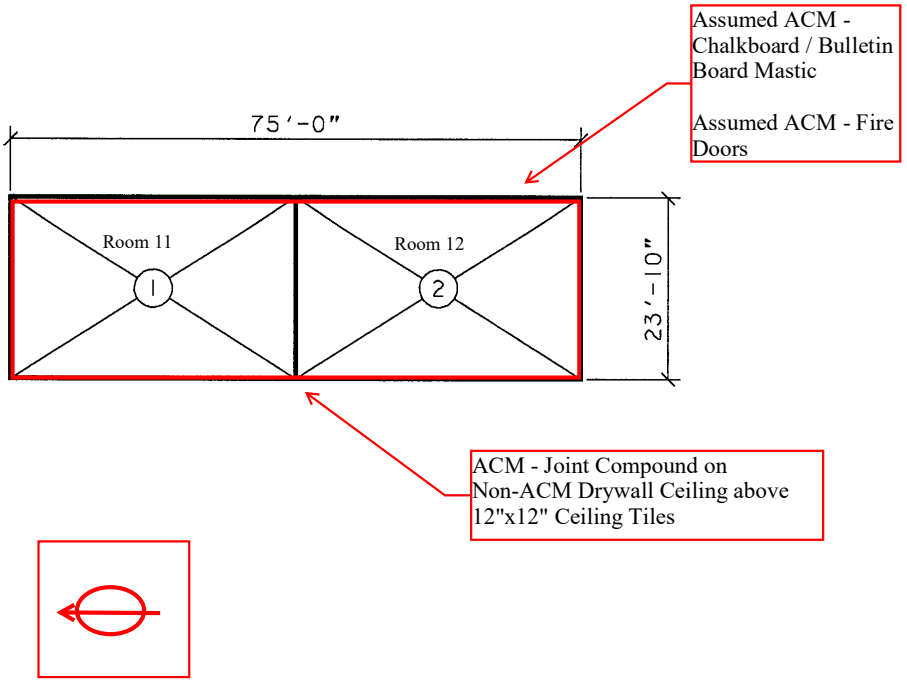
APPLICATION NO. 22/

DRAWING CAP17F1

BUILDING 17

PLOT PLANS AND ALLOTMENTS UNIT
IBM TOWER - ROOM 420

2/3 UNIT RELOCATABLE BUILDING
(X0324L)



PLOT SCALE: 1"=20'-0"

AUTHORIZED AGENT
LOS ANGELES UNIFIED SCHOOL DISTRICT

Figure 12

LOS ANGELES SCHOOL DISTRICT

DIAGRAM OF BUILDING AREAS

LOCATION 8571

APPLICATION NO. 22/

DRAWING CAP27F1

SCHOOL: CANOGA PARK HIGH SCHOOL

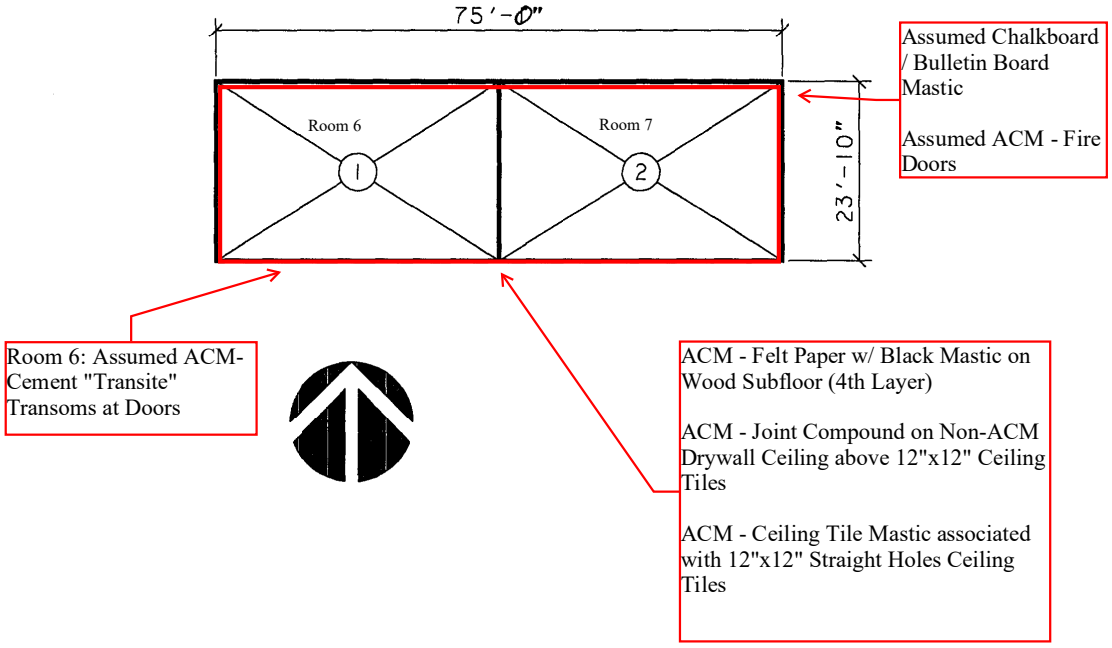
ADDRESS: 6850 TOPANGA CANYON BLVD.
CANOGA PARK, CA 91303

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

BUILDING 27

PLOT PLANS AND ALLOTMENTS UNIT
IBM TOWER - ROOM 420

2/3 UNIT RELOCATABLE BUILDING
(X0396L)



PLOT SCALE: 1"=20'-0"

AUTHORIZED AGENT
LOS ANGELES UNIFIED SCHOOL DISTRICT

Figure 13

LOS ANGELES SCHOOL DISTRICT

DIAGRAM OF BUILDING AREAS

LOCATION 8571

APPLICATION NO. 22/

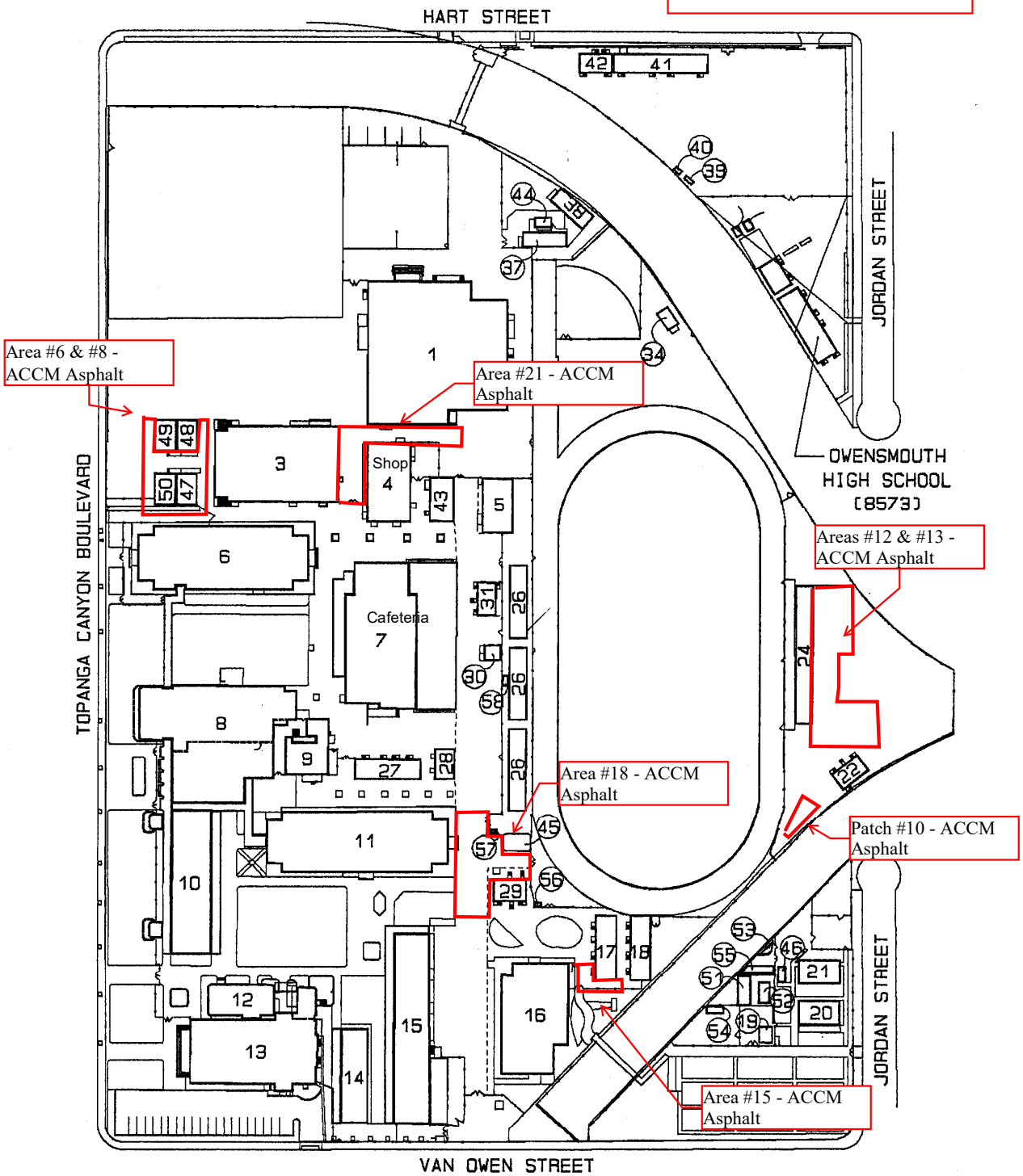
SCHOOL: CANOGA PARK HIGH SCHOOL

ADDRESS: 6850 TOPANGA CANYON BLVD.
CANOGA PARK, CA 91303

DISTRICT: LOS ANGELES UNIFIED SCHOOL DISTRICT

ACCM - Asphalt Paving Locations

Note: Assumed ACM - Cement " Transite" Pipes (Possible in soil, after asphalt removal.



AUTHORIZED AGENT
LOS ANGELES UNIFIED SCHOOL DISTRICT

Figure 14

APPENDIX J

Noise Report

Veneklasen Associates
Consultants in Acoustics | Noise | Vibration | AV | IT | Security

December 8, 2023

Envicom Corporation
4165 E. Thousand Oaks Blvd., Suite 290
Westlake Village, California 91362

Attention: Tim Rosenstein | Environmental Analyst / Project Manager, Environmental Services

Subject: Canoga Park High School Major Modernization; Los Angeles, California
Noise & Vibration Study; Veneklasen Project No. 8119-005

Veneklasen Associates (VA) conducted an acoustical study at Canoga Park High School, located at 6850 CA-27, Canoga Park, California 91303. The Canoga Park High School modernization project (Project) entails the demolition of several buildings, construction of several new buildings, and upgrades or repairs to many other facilities. The Project will not increase the number of students served and will not increase the activities hosted. Therefore, the noise and vibration analysis will review construction impacts only. The Project location is shown in Figure 1. A list of acoustical terms with definitions is presented in Appendix A.

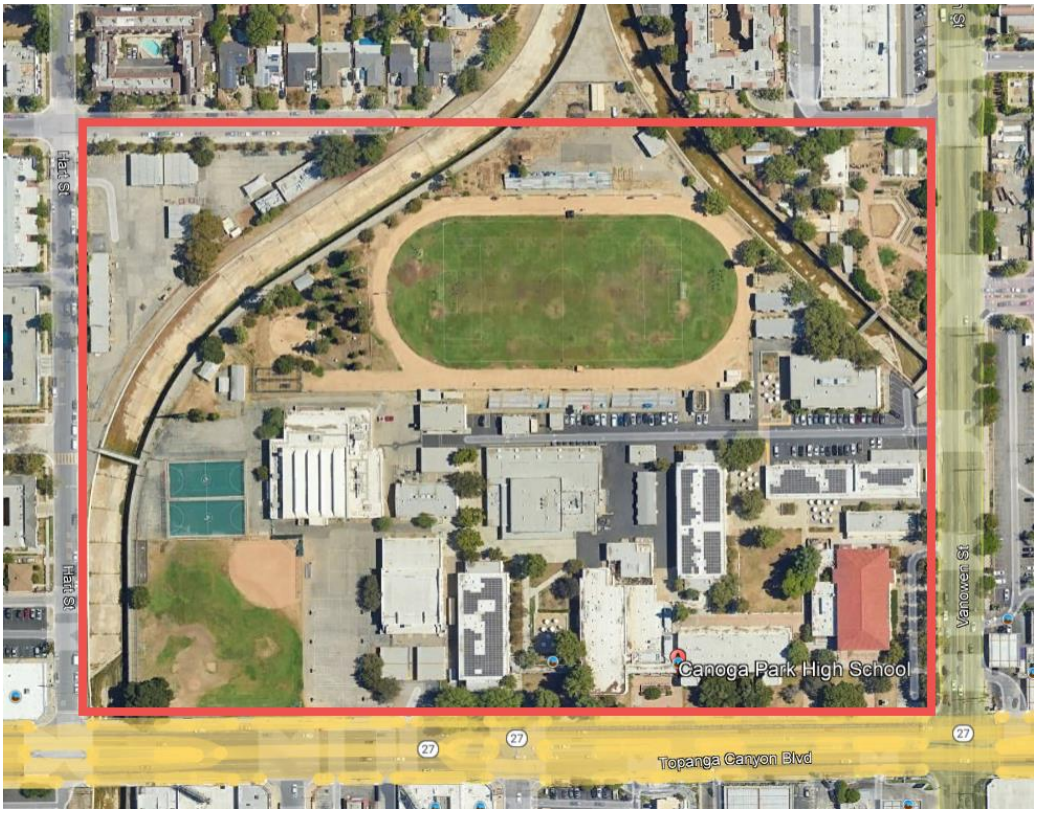


Figure 1. Arial View of Project Site

PROJECT DESCRIPTION

The Project includes the demolition of 15 buildings, including the cafeteria, weight room, 7 classrooms buildings with 12 classrooms total, two storage buildings, three restrooms, one ticket booth, for a total of 43,111 sq ft. The promenade pavement, pavement surrounding the cafeteria and other buildings will be removed. Paving in parking lot off Topanga canyon boulevard and the northern athletic area will be resurfaced and possibly removed as well. The new construction includes three new buildings in total, the largest will be the Hunter student union, which will total 50,000 sq/ft, with new cafeteria, 12 classrooms, weight room, coaches' office, special education, wellness center. The second building will be located near the southwest end of the main athletic field and contain event ticketing, home concessions, and restrooms, along with maintenance and operations spaces, and a facility manager office. The third building will be located near the southeast end of the main athletic field and contain restrooms and visitor concessions. In addition to the new construction there will be various upgrades throughout much of the campus. All buildings on campus, including those outside of the defined development zone, will receive new exterior paint. The main athletic field will be resod, and the surrounding decomposed granite track will be replaced with a synthetic surface track. New field sports competition areas (Shot Put, Long Jump, and High Jump) will be installed north of the athletic field, and the irrigation system will be replaced. In addition, the athletic field bleachers will be updated for ADA compliance and a new LED scoreboard will be installed. The promenade will be remade with new hardscaping and landscaping, and hardscaping and landscaping around the Hunter Student Union will be updated, as well as areas north and south of the main athletic field. The parking lot off Topanga Canyon Boulevard will be resurfaced as will the northern most athletic area. Site-wide upgrades to remove identified and prioritized barriers to program accessibility will also take place. Lastly, improvements to ensure compliance with the Americans with Disabilities Act (ADA), Division of the State Architect (DSA), California Environmental Quality Act (CEQA), Department of Toxic Substances Control (DTSC), or other local, state, and federal requirements. Figure 2 indicates the site location and the various construction elements.

NOISE AND VIBRATION CRITERIA

A. NOISE

The Project site is in the City of Los Angeles; therefore, the Project is subject to the requirements of the City of Los Angeles Municipal Code Chapter XI Noise Regulations (City Noise Regulations) specified in Section 112.05.

Section 112.05 of the City Noise Regulations used for this assessment states, "Between the hours of 7:00 a.m. and 10:00 p.m., in any residential zone of the City or within 500 feet thereof, no person shall operate or cause to be operated any powered equipment or powered hand tool that produces a maximum noise level exceeding the following noise limits at 50 feet therefrom:

(a) 75dB(A) for construction, industrial, and agricultural machinery including crawler-tractors, dozers, rotary drills and augers, loaders, power shovels, cranes, derricks, motor graders, paving machines, off-highway trucks, ditchers, trenchers, compactors, scrapers, wagons, pavement breakers, compressors and pneumatic or other powered equipment"

B. VIBRATION

The Federal Transit Authority (FTA) *Transit Noise and Vibration Impact Assessment* manual specifies vibration limits for construction activity. The Los Angeles County Code does not specify vibration limits. The FTA vibration limit to prevent building damage corresponding to neighboring building construction is 98 VdB for commercial buildings and 94 VdB for residential construction as indicated in Table 12-3 of the manual and displayed in the table below. The manual also specifies in Table 8-1 that for construction with frequent events, vibration levels of 75 VdB are appropriate for general use in offices and vibration levels of 72 VdB are appropriate in residential buildings to prevent vibration annoyance. We will utilize these two criteria for this analysis.

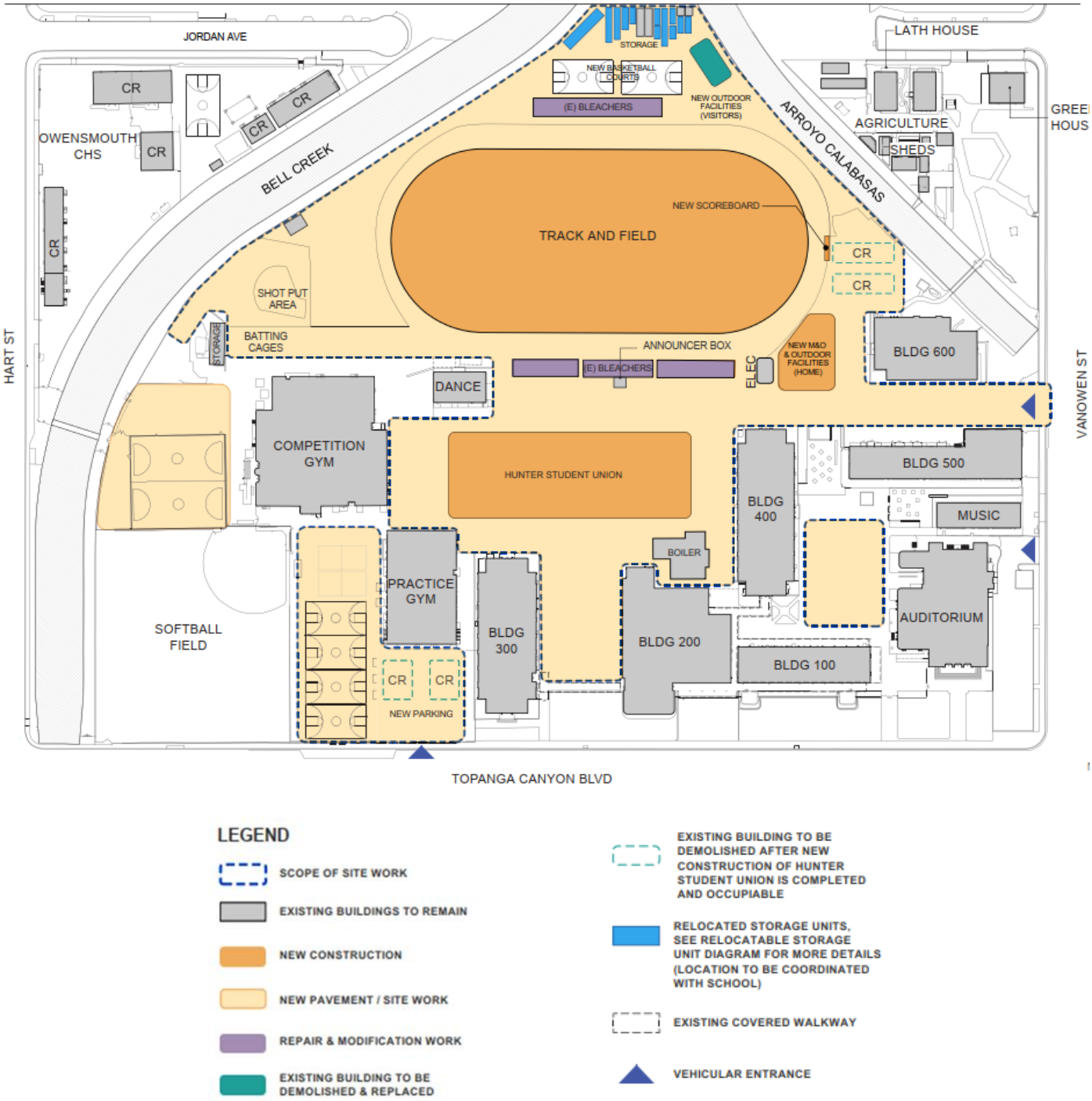


Figure 2. Location of Proposed Project Elements

Tables 2 and 3 below summarize the vibration criteria utilized for the construction.

Table 2. FTA Construction Vibration Damage Criteria (Table 12-3)

Table 12-3. Construction Vibration Damage Criteria[11]		
Building Category	**PPV (in/sec)**	**Approximate L_v†**
I. Reinforced-concrete, steel or timber (no plaster)	0.5	102
II. Engineered concrete and masonry (no plaster)	0.3	98
III. Non-engineered timber and masonry buildings	0.2	94
IV. Buildings extremely susceptible to vibration damage	0.12	90
† RMS velocity in decibels (VdB) re 1 micro-inch/second		

Table 3. FTA Indoor Ground-Borne Vibration (GBV) Impact Criteria for General Vibration Assessment (Table 8-1)

Table 8-1. Ground-Borne Vibration (GBV) and Ground-Borne Noise (GBN) Impact Criteria for General Assessment

Land Use Category	GBV Impact Levels (VdB re 1 micro-inch /sec)			GBN Impact Levels (dB re 20 micro Pascals)		
	Frequent Events[1]	Occasional Events[2]	Infrequent Events[3]	Frequent Events[1]	Occasional Events[2]	Infrequent Events[3]
Category 1: Buildings where vibration would interfere with interior operations.	65 VdB[4]	65 VdB[4]	65 VdB[4]	N/A[4]	N/A[4]	N/A[4]
Category 2: Residences and buildings where people normally sleep.	72 VdB	75 VdB	80 VdB	35 dBA	38 dBA	43 dBA
Category 3: Institutional land uses with primarily daytime use.	75 VdB	78 VdB	83 VdB	40 dBA	43 dBA	48 dBA

Notes:

1. "Frequent Events" is defined as more than 70 vibration events of the same source per day. Most rapid transit projects fall into this category.
2. "Occasional Events" is defined as between 30 and 70 vibration events of the same source per day. Most commuter trunk lines have this many operations.
3. "Infrequent Events" is defined as fewer than 30 vibration events of the same kind per day. This category includes most commuter rail branch lines.
4. This criterion limit is based on levels that are acceptable for most moderately sensitive equipment such as optical microscopes. Vibration-sensitive manufacturing or research will require detailed evaluation to define the acceptable vibration levels. Ensuring lower vibration levels in a building often requires special design of the HVAC systems and stiffened floors.
5. Vibration-sensitive equipment is generally not sensitive to ground-borne noise.

EXISTING MEASURED AMBIENT SOUND LEVEL

Acoustical measurements were conducted using Type 1/Class 1 Bruel & Kjaer 2250/2270 sound level meters on November 2, 2023, to evaluate the existing ambient sound levels in the Project vicinity. Noise measurements were taken around the perimeter of Canoga Park High School at eight locations as shown in Figure 3 below. These monitoring locations were selected to measure the ambient noise levels near the closest sensitive receptors. The measurements taken were 10-minute averages at every location titled "ML" or Monitoring Location. All the acoustical measurements were conducted with Bruel and Kjaer 2250 sound level meters which conform to ANSI S.14-2014 for Type 1 precision sound level meters. All equipment was field-calibrated before and after use. The measurements range from 49.32 dB to 73.76 dB. The closest receptor locations are shown below in the blue boxes titled "RL." These are the closest possible locations exposed to the construction noise.

The ten-minute average ambient sound levels are summarized in Table 4.

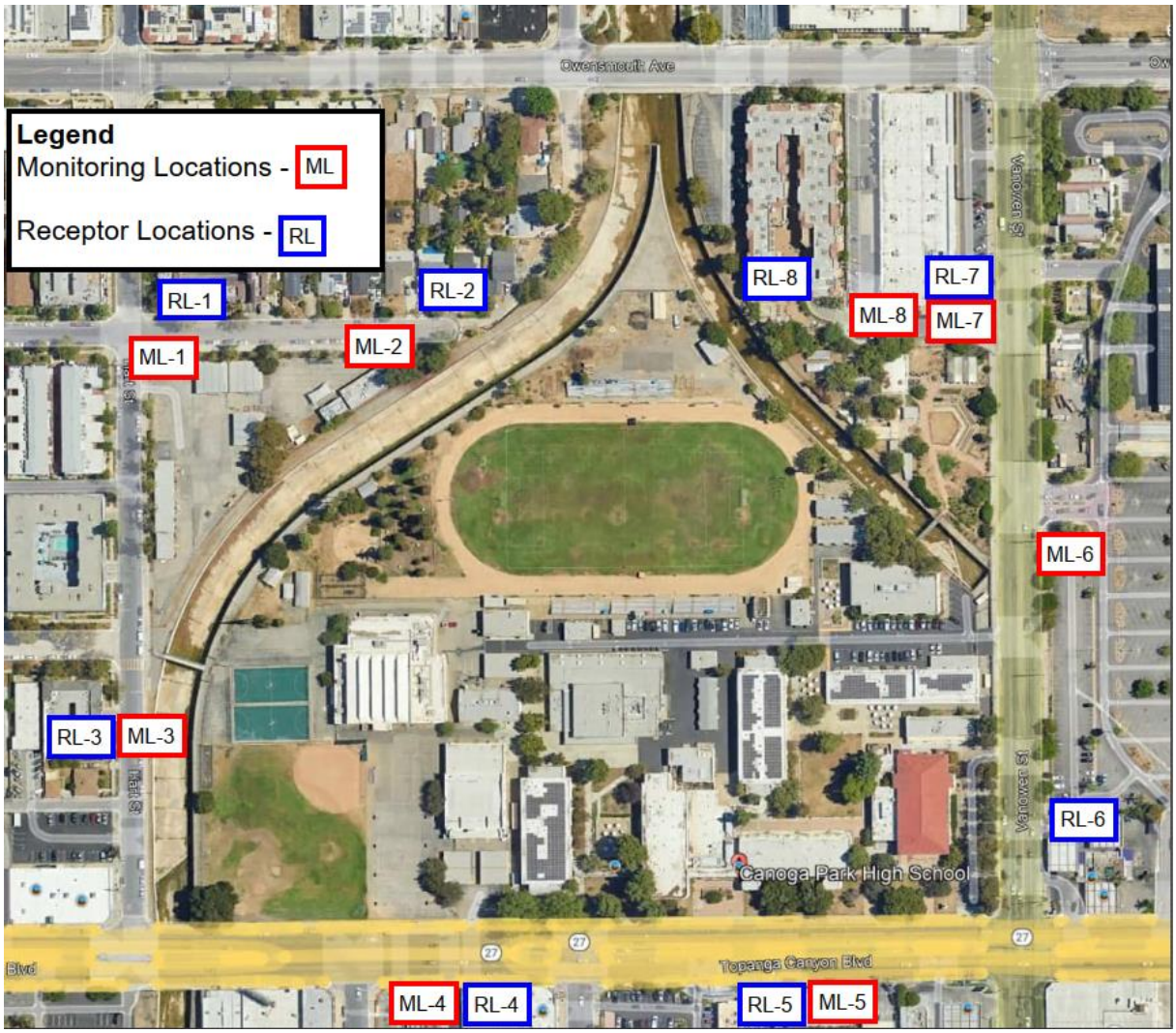


Figure 3. Measurement Locations Near Canoga Park High School

Table 4: Measured Ambient Noise Level

	Measured Ambient Noise Level (dBA L_{eq})							
10 Minute Average	Monitoring Location 1	Monitoring Location 2	Monitoring Location 3	Monitoring Location 4	Monitoring Location 5	Monitoring Location 6	Monitoring Location 7	Monitoring Location 8
12:10 - 12:20 PM	55.11							
12:25 - 12:35 PM		49.32						
12:40 - 12:50 PM			57.78					
12:55 - 1:05 PM				71.29				
1:10 - 1:20 PM					71.41			
1:50 - 2:00 PM						73.76		
2:10 - 2:20 PM							61.34	
2:20 - 2:30 PM								52.88

ACOUSTICAL ANALYSIS – CONSTRUCTION NOISE

The construction planned for the Project includes the construction equipment shown in Table 5 below.

Table 5. List of Construction Equipment

Phase	Duration	Equipment Type	(# of pieces)
Demolition	44 days	Concrete Saws	1
		Excavators	3
		Rubber Tired Dozer	2
Grading	15 days	Excavators	1
		Graders	1
		Rubber Tired Dozers	1
		Tractors/Loaders/Backhoes	3
Building Construction	263 days	Cranes	1
		Forklifts	3
		Generator Sets	1
		Welders	1
		Tractors/Loaders/Backhoes	3
Paving	109 days	Pavers	2
		Paving Equipment	2
		Rollers	2
Architectural Coating	44 days	Air Compressors	1

The analysis of the various phases of construction indicates the maximum construction noise produced at sensitive receptors occurring with all equipment operating. The predicted construction noise level at the noise assessment locations (ML) for each construction phase is indicated in Table 6; sample calculations are indicated in Appendix B.

Although the ordinance states the construction noise level limit to be 75 dB at 50 feet, the analysis of this report is considering 75 dB at the receptor given the nature of the development and that the work is confined to the interior of the site and won't take place near the property lines in most areas.

Table 6. Noise Levels at Receptors

Scenario	Daytime Noise Levels at Sensitive Receptors (dBA)							
	SR-1*	SR-2*	RL-3	RL-4	RL-5	RL-6	RL-7	SR-8*
Existing Ambient Noise Level at ML	55	49	57	71	71	73	61	52
Phase 1. Demolition	73	80	73	72	72	71	72	83
Phase 1. Demolition with Barrier		69						71
Phase 2. Grading	73	80	72	71	71	71	72	83
Phase 2. Grading with Barrier		68						71
Phase 3. Building Construction	71	78	71	69	69	69	70	81
Phase 3. Building Construction Barrier		66						69
Phase 4. Paving	65	72	64	63	63	63	64	75
Phase 4. Paving with Barrier		60						63

*Note: SR stands for Sensitive Receptor, which is residence closest to the noise source. RL stands for receptor location. ML stands for monitoring locations, which are the locations where ambient noise sources were taken.
The table shows what the sound levels would be if an 8-foot sound barrier was placed around the school construction as shown in Figure 4 in the rows that indicate "with Barrier."

Table 6 shows the predicted noise levels for each phase and shows the predicted noise levels if an 8-foot sound barrier was placed around the entire school. Since SR-2 and SR-8 are the only locations where the noise would reach above 75 dB, we propose installing an 8-foot sound barrier only on the east side of the school.
An 8-foot-high barrier around the eastern perimeter of the project site is recommended as a feasible mitigation measure to reduce the construction noise levels at the receptors. The resulting predicted mitigated construction noise levels are close to or below the measured ambient noise levels at most locations. At SR-2 and SR-8, the construction noise barrier recommendation will reduce the noise increase by a minimum of 11 dBA at those receptors and it is the only available practical mitigation method available.

While the truck hauling noise is predicted to be 78dBA as a truck passes the sensitive receptors, the truck noise will only be created for a very short period. The combined hourly average noise level created by trucks is significantly below 75dBA for each receptor. The architectural coating phase will also create very low levels of noise. The predicted construction noise level for all phases of construction will comply with the Los Angeles Municipal Code Section 112.05 regulation limiting construction noise to 75 dBA.



Figure 4. Sound Barrier

The figure above shows the sensitive receptors where the sound would reach above 75dB. The two closest locations to the construction where this occurs are SR-2 and SR-8, both of which are residential. To mitigate this noise, a proposed sound barrier 8-feet tall can reduce the sound levels at the to the approved noise levels as shown in Table 6. The sound barrier is necessary within 215 ft of any residence or within 150 ft of either Jordan Avenue or Hart Street as the work is confined to the interior of the property and won't be taking place near the property lines. The sound barrier was only necessary at the east side of the property since this where the closest sensitive receptors at SR-2 and SR-8, which were residence.

ACOUSTICAL ANALYSIS – CONSTRUCTION VIBRATION

Table 7 displays the construction equipment used for the various phases of the Project and the level of vibrations given off by each piece of equipment. The result of the analysis indicates the project will comply with the FTA building damage criteria with the planned construction equipment. Off-site Truck Hauling had the highest level of vibrations of 83.6 VdB and 0.058 in/sec, when within 30 feet of the closest receptor. The Paving

and Grading phases of the project had the second highest vibration levels. The FTA manual states the allowable limit of vibrations to prevent building damage is 94 VdB, therefore the project will not exceed the maximum level of vibrations. The annoyance criteria of 72 VdB for residential is met as the highest vibration level is 71.6 VdB.

Table 7. Vibration Assessment – Phase 2. Grading

Equipment type	PPV_{ref} at 25 ft (in/sec)	L_v at 25ft (VdB)	Distance (ft) to R8	PPV_{equip} at R8	Lv at R8
Excavators	0.089	87	**140**	0.007	64.6
Graders	0.210	94	**140**	0.016	71.6
Large Bulldozer	0.089	87	**140**	0.007	64.6
Tractors/Loaders/Backhoes x 3	0.003	58	**140**	0.000	35.6

The FTA manual states in Section 7 that it is "unusual for vibration from sources such as buses and trucks to be perceptible, even in locations close to major roads." Therefore, is it not expected for the local haul route truck vibration to be a significant impact for annoyance. The project haul trucks will travel no closer than 25 feet to local buildings. The FTA loaded truck vibration level at 25 feet is 0.076 in/sec, lower than the building damage criterion. Therefore, the local haul truck vibration will not have a significant impact for building damage.
The proposed Project consist of commercial use, resulting in vehicular traffic. On-road vehicles are unlikely to generate perceptible ground-borne vibration when traveling on smooth roadways, according to the Caltrans Transportation and Construction Vibration Guidance Manual. The Federal Transit Administration Transit Noise and Vibration Impact Assessment Manual states that most complaints about vibration from buses and trucks are due to the rattling of windows or items affixed to walls, which is usually the result of airborne noise rather than ground-borne vibration. The vibration from the project's operational traffic will not be perceptible at nearby receptors.

CONCLUSION

The report findings reveal that the construction for the Project at Canoga Park High School aligns with section 112.05 of the Los Angeles Municipal Code. To meet the noise ordinance requirements, the only necessary adjustments entail the installation of an 8-foot sound barrier on the eastern side of the school. Additionally, the report affirms that the Project is not expected to generate a substantial noise or vibration impact at this location. This assurance is crucial to ensure that any noise generated by construction or mechanical equipment will not affect sensitive receptors in the nearby vicinity.

Sincerely,
Veneklasen Associates, Inc.





Stephen A. Martin, Ph.D., P.E.
Associate Principal
Director, Environmental Acoustics

Joe Zev
Associate

APPENDIX A. DEFINITIONS OF ACOUSTICAL TERMS

Term	Definition
Sound	Relatively small fluctuations in the air above and below atmospheric pressure. These fluctuations travel through the air as waves and are perceived by the ear and brain as audible sound.
Noise	Characterized simply as unwanted sound.
Decibel (dB)	A unit describing the amplitude of sound in a logarithmic ratio to a reference value.
A-weighted Decibels (dB(A))	A filter applied to sound pressure levels in decibel to simulate the response of the human ear at the threshold of hearing. A-weighting de-emphasizes the low frequency components of a sound similar to the human ear at these levels. This metric has been closely tied to subjective reactions of annoyance to noise, and is used as a sound metric in this and in many other environmental acoustics reports. In this report, all dB(A) levels reported refer to the sound pressure level, referenced to 20µPa
Sound Pressure Level (SPL or L_p)	The amplitude of sound compared to the reference value of 20µPa. Sound Pressure Level is what we perceive as audible sound. Sound Pressure Level decreases as distance from the source to the receiver increases. All sound values discussed in this report refer to Sound Pressure Levels.
Sound Level Percentile (L_n)	Also referred to as a "statistical sound level", L_n refers to the sound level that is exceeded for nth percent of a given measurement period. For example, L_{50} refers to the sound level that is exceeded for 50% of a measurement period, i.e. 30 minutes out of an hour. These metrics can be used to evaluate sound levels that are apparent for a given period of time at a measurement location.
Maximum Sound Level (L_{max})	The maximum instantaneous sound level, regardless of duration. These sound levels fluctuate greatly over short periods of time, and are generally used to evaluate audibility of acoustical events.
Ambient Sound Level	The baseline sound level to which proposed or atypical sound levels are compared to. The "ambient" sound level is measured in the same location and during the same time of day for which sound exposure is to be analyzed for an assessment, without the source of the assessment operational. For the purposes of this study, the "ambient" sound level refers to the existing sound level at a location while an event at Middle Ranch is not occuring.

Appendix B. Sample Calculations

Note : RL-8 is the nearest sensitive receptor, which is why itw as chosen for calculations, since every other receptor location is farther away and will have lower noise levels.

Noise Assessment – Phase 1. Demolition

Equipment type	Distance (ft) to R8	Sound Pressure Level @ R8 (dBA re: 20µPa)
Concrete Saws	85	64
Excavators x 3	85	81
Rubber Tired Dozers x 2	85	79
Without Sound Barrier		83
With Sound Barrier		71

Noise Assessment – Phase 2. Grading

Equipment type	Distance (ft) to R8	Sound Pressure Level @ R8 (dBA re: 20µPa)
Excavators	85	76
Graders	85	76
Large Bulldozer	85	76
Tractors/Loaders/Backhoes x 3	85	78
Without Sound Barrier		83
With Sound Barrier		71

Noise Assessment - Phase 3. Building Construction

Equipment type	Distance (ft) to R8	Sound Pressure Level @ R8 (dBA re: 20µPa)
Cranes	85	72
Forklifts x 3	85	71
Generator Sets	85	74
Welders	85	65
Tractors/Loaders/Backhoes x 3	85	78
Without Sound Barrier		81
With Sound Barrier		69

Noise Assessment - Phase 4. Paving

Equipment type	Distance (ft) to R8	Sound Pressure Level @ R8 (dBA re: 20µPa)
Pavers x 2	85	72
Rollers x 2	85	71
Without Sound Barrier		75
With Sound Barrier		63

Vibration Assessment – Phase 1. Demolition

Equipment type	PPV_{ref} at 25 ft (in/sec)	L_v at 25ft (VdB)	Distance (ft) to R8	PPV_{equip} at R8	Lv at R8
Concrete Saws	0.003	58	140	0.000	34.7
Excavators x 3	0.089	87	140	0.006	63.7
Rubber Tired Dozers x 2	0.089	87	140	0.006	63.7

Vibration Assessment – Phase 2. Grading

Equipment type	PPV_{ref} at 25 ft (in/sec)	L_v at 25ft (VdB)	Distance (ft) to R8	PPV_{equip} at R8	Lv at R8
Excavators	0.089	87	140	0.007	64.6
Graders	0.210	94	140	0.016	71.6
Large Bulldozer	0.089	87	140	0.007	64.6
Tractors/Loaders/Backhoes x 3	0.003	58	140	0.000	35.6

Vibration Assessment - Phase 3. Building Construction

Equipment type	PPV_{ref} at 25 ft (in/sec)	L_v at 25ft (VdB)	Distance (ft) to R8	PPV_{equip} at R8	Lv at R8
Tractors/Loaders/Backhoesx 3	0.003	58	140	0.000	35.6
Crane	0.089	87	140	0.005	64.6

Vibration Assessment - Phase 4. Paving

Equipment type	PPV_{ref} at 25 ft (in/sec)	L_v at 25ft (VdB)	Distance (ft) to R8	PPV_{equip} at R8	Lv at R8
Pavers x 2	0.210	94	140	0.016	71.6

Vibration Assessment - Phase 5. Truck Hauling

Equipment type	PPV_{ref} at 25 ft (in/sec)	L_v at 25ft (VdB)	Distance (ft) to R4,5,6	PPV_{equip} at R4,5,6	Lv at R4,5,6
Loaded Trucks	0.076	86	**30**	0.058	83.6

APPENDIX K

Transportation Assessment

ASSOCIATED TRANSPORTATION ENGINEERS

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PEDESTRIAN SAFETY AND VEHICLE MILES TRAVELED ANALYSIS FOR THE CANOGA PARK HIGH SCHOOL MODERNIZATION PROJECT - CITY OF LOS ANGELES

Associated Transportation Engineers (ATE) has prepared the following pedestrian safety and vehicle miles travelled analysis for the Canoga Park High School modernization Project (the" Project"), located at 6850 Topanga Canyon Boulevard in the City of Los Angeles. The analysis was prepared to assist City staff in the development review of the Project.

PROJECT DESCRIPTION



The proposed Project involves building replacement, renovation, modernization, and reconfiguration on the Canoga Park High School campus as part of the School Upgrade Program (SUP). The renovation consists of the modernization of the approximately 21.38 acres of the Canoga Park High School campus to facilitate a safe and secure campus that is better aligned with the current instructional program and meets current Division of the State Architect (DSA) educational specifications. Figure 1 illustrates the Project site plan. Inadequate buildings will be demolished and replaced by new buildings that will improve educational quality and safety for students and staff. The proposed Project also

includes essential upgrades including new exterior paint, the removal of barriers and other accessibility upgrades, and various landscape and hardscape improvements. A total of 12 classrooms will be demolished as part of the renovation project and this same number will be constructed, thus leaving the number of classrooms unchanged at 78. The maximum student enrollment of 1,800 will also remain the same.

EXISTING CONDITIONS

Street Network

The Project study area is served by a network of freeways, arterial streets, and collector streets, as illustrated in Figure 1. The following text provides a brief discussion of the primary components of the study-area street network.



Topanga Canyon Boulevard (S.R. 27), a north-south arterial roadway in the City of Los Angeles, is located adjacent to the Project site. Topanga Canyon Boulevard extends south from State Route 118 in Simi Valley to the Pacific Coast Highway in Malibu. Regional access to the Project is provided via the U.S. Highway 101 and the State Route 118/Topanga Canyon Boulevard interchanges. In the study-area the posted speed on Topanga Canyon Boulevard is 45 mph. Adjacent to Canoga Park High School the posted speed is 25 mph when children are present. Topanga Canyon Boulevard provides direct access to the Project site via a gated driveway connection.



Vanowen Street, is a 2- to 4-lane east-west arterial roadway in the vicinity of the Project. Vanowen Street extends easterly from Valley Circle Boulevard to North Buena Vista Street. In the study-area, the Posted speed on Owensmouth Avenue is 35 mph. Adjacent to Canoga Park High School the posted speed is 25 mph when children are present. Vanowen Street serves primarily residential and commercial land uses in the study-area. Within the Project study-area, Vanowen Street is signalized at Topanga Canyon Boulevard and Owensmouth Avenue. Vanowen Street is fully improved with curb, gutter, sidewalk and street lighting in the study-area. Vanowen Street

provides direct access to the Project site via driveway connections.



Owensmouth Avenue is a 2- to 4-lane north-south collector roadway in the vicinity of the Project. Owensmouth Avenue extends south from Andora Avenue terminating at Jullianna Lane. In the study-area, the posted speed on Owensmouth Avenue is 35 mph. Owensmouth Avenue serves primarily residential and commercial land uses in the study-area. Owensmouth Avenue is fully improved with curb, gutter, sidewalk and street lighting in the study-area Within the Project study-area, Owensmouth Avenue is signalized at the Vanowen Street.

Hart Street is a 2-lane east-west roadway in the vicinity of the Project site. Within the study-area Hart Street extends east from Topanga Canyon Boulevard to Canoga Avenue. Hart Street serves primarily residential and commercial land uses in the study-area. Hart Street is fully improved with curb, gutter, sidewalk and street lighting in the study-area Within the Project study-area, Hart Street is signalized at Owensmouth Avenue and STOP-Sign controlled at Topanga Canyon Boulevard.



Schoolcraft Street is a 2-lane east-west roadway in the vicinity of the Project site. In the study-area Schoolcraft Street extends east from Nila Avenue to Topanga Canyon Boulevard. Schoolcraft Street serves primarily residential and commercial land uses in the study-area. Schoolcraft Street is partially improved with curb, gutter, partial sidewalk and street lighting in the study-area. Speed humps are provided in the residential section of the street. Within the Project study-area, Schoolcraft Street is STOP-Sign controlled at Topanga Canyon Boulevard.

Bassett Street is a 2-lane east-west roadway in the vicinity of the Project site. Bassett Street extends east from Nila Avenue to Topanga Canyon Boulevard. Bassett Street serves primarily residential and commercial land uses in the study-area. Bassett Street is partially improved

with curb, gutter, partial sidewalk and street lighting in the study-area Within the Project study-area, Bassett Street is signalized at Topanga Canyon Boulevard.

Vassar Avenue is a 2-lane north-south roadway in the vicinity of the Project site. In the study-area Vassar Avenue extends south from Sherman Way to Hart Street. Vassar Avenue serves primarily residential and commercial land uses in the study-area. Vassar Avenue is fully improved with curb, gutter, sidewalk and street lighting in the study-area. Within the Project study-area, Vassar Avenue is STOP-Sign controlled at Hart Street.

Jordan Avenue is a 2-lane north-south roadway in the vicinity of the Project site. In the study-area Jordan Avenue extends south from Sherman Way to Hart Street. Jordan Avenue serves primarily residential and commercial land uses in the study-area. Jordan Avenue is fully improved with curb, gutter, sidewalk and street lighting in the study-area. Within the Project study-area, Jordan Avenue is STOP-Sign controlled at Hart Street.

PEDESTRIAN, BICYCLE AND TRANSIT FACILITIES

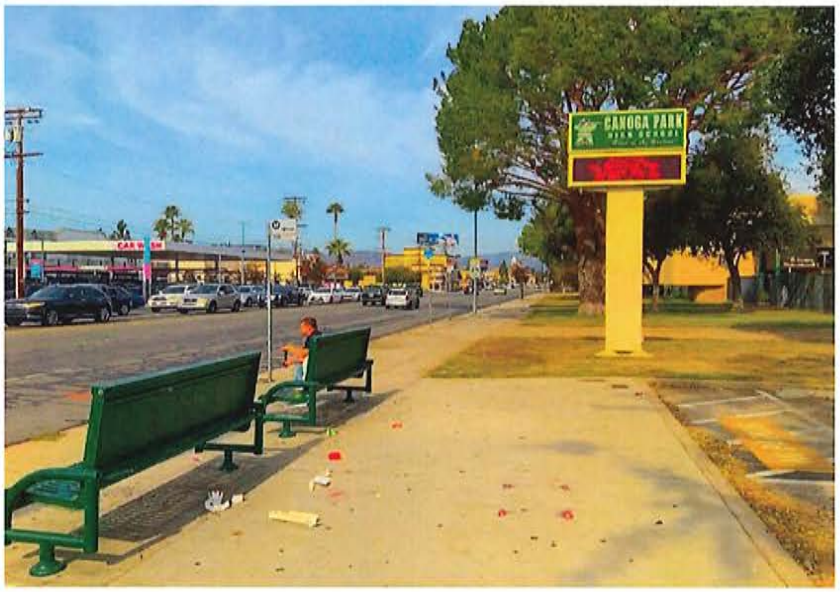
Pedestrian and Bicycle Facilities



Currently there are pedestrian facilities (sidewalks, crosswalk, etc.) located along Topanga Canyon Boulevard, Vanowen Street, Owensmouth Avenue and Hart Street in the study-area. Sidewalks are provided on Topanga Canyon Boulevard, Vanowen Street and Hart Street adjacent to the Project site. The sidewalks connect the Project to the local transit service provided in the study-area on Topanga Canyon Boulevard and Vanowen Street. The nearest signalized pedestrian crosswalk is provided at the Topanga Canyon Boulevard and Vanowen Street intersection. Striped pedestrian crosswalks, ADA ramps and pedestrian call buttons are provided on each leg of the intersection. The nearest unsignalized pedestrian crosswalk is provided at the Topanga Canyon Boulevard and Hart Street intersection. Striped pedestrian crosswalk with ramps are provided on the eastern leg of the intersection. These pedestrian facilities connect the Project to commercial areas and the local neighborhoods north, south, east and west of the Project. The Project would not have an adverse effect on the existing pedestrian facilities.

The Project site is served by the City of Los Angeles Bikeway System. The existing bicycle facilities located in the study-area consist of Class III bike lanes along Topanga Canyon Boulevard, Vanowen Street, Owensmouth Avenue, Hart Street and the Orange Line Bikeway. These bike facilities connect the Project to the local neighborhoods north, south, east and west of the Project. Bicycle parking is provided on-site for staff/faculty and students that choose to bike. The proposed Project would not have an adverse effect on the existing bicycle facilities.

Transit Facilities



Los Angeles Metro (Metro) is the local transit provider in the City of Los Angeles. The Canoga Park High School site is served by the Metro #150 Route (Chatsworth - Canoga Park - Tarzana via Topanga Canyon Boulevard - Ventura Boulevard). The Metro #150 Route operates daily providing fixed route bus service on Vanowen Street adjacent to the school site. During the peak commute hours, the Metro #150 Route operates with less than 30-minute headways. The school site is also served by the Metro #165 Route (West Hills - Burbank via Vanowen Street). The Metro #165 Route operates daily providing fixed route bus service on Vanowen Street adjacent to the Project site. During the peak commute hours, the Metro #165 Route operates with less than 30-minute headways. Existing bus stops are located on Vanowen Street less than a ¼ mile of 1the Project site, on both sides of Vanowen Street. A bus stop is provided on each corner of the Topanga Canyon Boulevard/Vanowen Street intersection. The Canoga Park High School site is also served by the City of Santa Clarita Transit Commuter Express Route #791. The #791 Commuter Express Route operates Monday through Friday providing fixed route bus service on Topanga Canyon Boulevard. An existing bus stop is located adjacent to the Project site on the corner of Topanga Canyon Boulevard and Vanowen Street. The "G" Line (Orange Line) rapid bus service interfaces with the Metro #150 bus and Santa Clarita Transit at the Canoga station less than a mile from the school campus. The "G' Line operates daily with 10 to 15-minute headways during the peak commute hours. LAUSD also provides school bus service to the campus. School bus pick-up and drop-off is provided along Topanga Canyon Boulevard at the main campus entry. The proposed Project would not have an adverse effect on the existing transit facilities.

LOS ANGELES UNIFIED SCHOOL DISTRICT (LAUSD) ENVIRONMENTAL STANDARDS

Transportation

The following table lists the transportation and traffic related standards conditions and project design features (PDF) that are included as part of each SUP-related project as appropriate.

PDF#	Topic	Trigger for Compliance	Implementation Phase	Standard Conditions and Project Design Features
Standard Conditions				
SC T-1	Analysis for traffic	If project increase student capacity and additional traffic	Prior to project approval	**OEHS CEQA Specification Manual. Appendix C, Traffic and Pedestrian Safety Requirements for New Schools**. Requirements identifies performance requirements for the selection and design of school sites to minimize potential pedestrian safety risks: • Site Selection • Bus and Passenger Loading Area • Vehicles Access • Pedestrian Routes to School Requirements also state school traffic studies shall identify measures to ensure separation between pedestrian and vehicles along potential pedestrian routes, such as sidewalks, crosswalks, bike paths, crossing guards, pedestrian, and traffic signals, stop signs, warning signs and other pedestrian access measure.
SC T-2	Vehicular access and parking	If project includes construction of parking and/or vehicular or pedestrian access.	During project design	**LAUSD School Design Guide.** Vehicular access and parking shall comply with Section 2.3, Vehcular Access and Parking of the School Design Guide, January 2014. The Design Guide contains the following regulation related to traffic: • Parking Sace Requirements • Geneal Parking Guidelines • Vehicular Access and Pedestrian Safety • Parking Structure Security
SC T-3	Analysis for traffic	If project increases student capacity and/or generates additional traffic or shifts traffic patterns	Prior to project approval	Coordinate with the local City or County jurisdiction and agree on the following: • Compliance with the jurisdiction's deign guidelines for access, parking and circulation in the vicinity of the project. • Scope of analysis and methodology for the traffic and pedestrian study, including trip generation rates, trip distribution, number and location of intersections to be studied and traffic impact thresholds. • Implementation of SRTS, traffic control and pedestrian safety devices. • Fair share contribution and/or other mitigation measures for potential traffic impacts. • Traffic and pedestrian safety impact studies shall address local traffic and congestion during morning arrival times, and before and after evening stadium events. • Traffic study will use the latest version of the Institute of Transportation (ITE) Trip Generation manual to determine trip generation rates (parent vehicles, school busses, staff/faculty vehicles and delivery vehicles based on the size of the school facility and the specific school type (e.g., Magnet, Charter, etc.), unless otherwise required by local jurisdiction. • Loading zones will be analyzed to determine the adequacy as pick-up and drop-off points. Recommendations will be developed in consultation with the local jurisdiction for curb loading bays or curb parking restrictions to accommodate loading needs and will control double parking and across-

PDF#	Topic	Trigger for Compliance	Implementation Phase	Standard Conditions and Project Design Features
				the-street loading.
SC T-4	Construction Traffic	If project requires construction equipment to use public roadways	Prior to construction	LAUSD shall require its contractors to submit a construction worksite traffic control plan to the LADOT for review prior to construction. The plan will show the location of any haul routes, hours of operation, protective devices, warning signs and access to abutting properties. LAUSD shall encourage its contactors to limit construction-related trucks o off-peak commute periods. As required by Caltrans, applicable transportation related safety measures shall be implemented during construction.
SC AQ-5	Traffic Reduction	If project includes increases in student capacity and additional traffic	During school operation	LAUSD shall encourage ride-sharing programs for students and teachers.

The Project does not result in an increase in student capacity, additional traffic or result in a change in traffic patterns. The proposed Project involves building replacement, renovation, modernization, and reconfiguration on the Canoga Park High School campus as part of the SUP. The renovation consists of the modernization of the Canoga Park High School campus to facilitate a safe and secure campus that is better aligned with the current instructional program and meets current DSA educational specifications.

Pedestrian Safety

The following table lists the pedestrian safety related standards conditions that are included as part of each SUP-related project as appropriate.

PDF#	Topic	Trigger for Compliance	Implementation Phase	Standard Conditions
Standard Conditions				
SC PED-1	OHES pedestrian safety evaluation	If project increase student capacity by more than 25% or 10 classrooms	During project design	**Caltrans SRTS program.** The LAUSD is a participant in the SRTS program administered by Caltrans and the local law enforcement and transportation agencies. OEHS provides pedestrian safety evaluation as a component of traffic studies conducted for new school projects. This pedestrian safety evaluation includes a determination of whether adequate walkways and sidewalks are provided along the perimeter of across from and adjacent to a proposed school site and along paths of identified pedestrian routes within a 0.25-mile radius of a proposes school site. The purpose of this review is to insure that pedestrians are adequately separated from vehicular traffic.
SC PED-2	Pedestrian safety analysis	If project increase student capacity by more than 25% or 10 classrooms	During project design	**Traffic and Pedestrian Safety Requirements** LAUSD has developed these performance guidelines to minimize potential pedestrian safety risks to students, faculty and staff and visitors at LAUSD schools. The performance guidelines include the requirements for student drop-off area, vehicle access and pedestrian routes to school. Appendix C states school traffic studies shall identify measures to ensure separation between pedestrians and vehicles along potential pedestrian routes, such as sidewalks, crosswalks, bike paths, crossing guards, pedestrian and traffic signals, stop signs, warming signs, and other pedestrian access measures.

PDF#	Topic	Trigger for Compliance	Implementation Phase	Standard Conditions
SC PED-3	Pedestrian safety analysis	If project increase student capacity by more than 25% or 10 classrooms	During project design	**Sidewalk Requirements for New Schools.** LAUSD shall coordinate with responsible traffic jurisdiction/agency to ensure these areas are improved prior to the opening of a school. Improvements shall include, but are not limited to • Clearly designate passenger loading area with the use of signage, painted curbs, etc. • Install new walkway and/or sidewalk segments where none exist. • Any substandard walkways/sidewalks segments shall be improved to a minimum of eight feet wide. • Provide other alternative measures that separate foot traffic from vehicular traffic, such as distance travel pathways or barricades.
SC PED-4	Pedestrian safety analysis	If project increase student capacity by more than 25% or 10 classrooms	Prior to project approval	**School Traffic Safety Reference Guide REF-4492.1** This reference Guide replaces Reference Guide 4492.0 School Traffic Safety, September 30,2008. Updated information is provided including new guidance on passenger loading zones and Safety Valey Program. Guide sets for requirements for traffic and pedestrian safety, and procedures for school principals to request assistance from OEHS, the Los Angeles Schools Police Department (LASPD) or the local police department regarding traffic and pedestrian safety. Distribution and posting of Back-to-School Safety Tips flyer is required. This guide also includes procedures for traffic surveys, parking restrictions, crosswalks, advance warning signs (school zone) school parking signage, traffic controls, crossing guard or for determination on whether vehicle enforcement is required to ensure the safety of students and staff.
SC PED-5	Safe access to school	If project includes construction of bus loading area, student drop-off/pick-up area and or parking	During project design	**School Design Guide.** The Guide states student drop-off and pick-up, bus loading area and parking areas shall be separated to allow students to enter and exit the school grounds safely.
SC T-3	Analysis for traffic	If project increases student capacity and/or generates additional traffic or shifts traffic patterns	Prior to project approval	Coordinate with the local City or County jurisdiction and agree on the following: • Compliance with the jurisdiction's design guidelines for access, parking and circulation in the vicinity of the project. • Scope of analysis and methodology for the traffic and pedestrian study, including trip generation rates, trip distribution, number and location of intersections to be studied and traffic impact thresholds. • Implementation of SRTS, traffic control and pedestrian safety devices. • Fair share contribution and/or other mitigation measures for potential traffic impacts. • Traffic and pedestrian safety impact studies shall address local traffic and congestion during morning arrival times, and before and after evening stadium events. • Traffic study will use the latest version of the Institute of Transportation (ITE) Trip Generation manual to determine trip generation rates (parent vehicles, school busses, staff/faculty vehicles and delivery vehicles based on the size of the school facility and the specific school type (e.g., Magnet, Charter, etc.), unless otherwise required by local

PDF#	Topic	Trigger for Compliance	Implementation Phase	Standard Conditions
				jurisdiction. Loading zones will be analyzed to determine the adequacy as pick-up and drop-off points. Recommendations will be developed in consultation with the local jurisdiction for curb loading bays or curb parking restrictions to accommodate loading needs and will control double parking and across-the-street loading.
SC T-4	Construction Traffic	If project requires construction equipment to use public roadways	Prior to construction	LAUSD shall require its contractors to submit a construction worksite traffic control plan to the LADOT for review prior to construction. The plan will show the location of any haul routes, hours of operation, protective devices, warning signs and access to abutting properties. LAUSD shall encourage its contactors to limit construction-related trucks o off-peak commute periods. As required by Caltrans, applicable transportation related safety measures shall be implemented during construction.

The Project does not result in an increase in student capacity, increased classrooms, additional traffic or result in a change in traffic patterns. The proposed Project involves building replacement, renovation, modernization, and reconfiguration on the Canoga Park High School campus as part of the SUP. The renovation consists of the modernization of the Canoga Park High School campus to facilitate a safe and secure campus that is better aligned with the current instructional program and meets current DSA educational specifications.

CONSTRUCTION

Project construction will occur in four phases over a period of 62 months. Phases I and II will occur concurrently over a period of 10 months. Phase III will occur over a period of 4 months. Phase IV will occur over a period of 48 months.

- **Phase I - Utility Make Ready (10-month duration):** During this phase site utilities will be prepared for future construction by eliminating utility connection to buildings that are connected through buildings hat are planed for demolition., install utilities necessary for construction of the interim housing village, and install utilities for new construction to a coordinated point within the new development zones. The goal is to consolidate underground work in public areas including service road and quads into one please so as to minimize campus disruption during major construction work.

- **Phase II - Interim Housing (10-month duration):** During this phase construction of interim housing spaces for school programs that will be displaced by the major demolition activity in Phase III. T Phase II will occur concurrently with Phase I. The goal is to remove active school programs from the development zones where demolition and new construction activity will occur.

- **Phase III - Major Demolition and Site Organization (4-month duration):** During this phase the development area of all elements planned for demolition will be cleared, establish campus circulation patterns around primary areas of constriction, establish construction site logistics, a Stormwater Pollution Prevention Plan (SWPPP) and consolidate storge containers on an area suitable for their continued use.

- **Phase IV - New Construction (48-month duration):** During this phase the construction of new school facilities will be completed so that LAUSD may take occupancy of the new spaces and move school programs into their permanent facilities. Phase IV will also include adequate fire access and major paths of circulation to all areas of the school campus.

The construction workers typically make one trip onto the job site and one trip off the job site. The vast majority of workers bring their own lunch or eat from a food truck that would come to the site, thus never leaving the site during work hours. Construction workers would travel to the site in private vehicles. If adequate parking areas are not available onsite, off-site parking would need to be obtained. Building construction would also require the delivery of construction equipment and materials to the site. Adequate staging and storage areas would need to be provided on-site to accommodate construction equipment and the delivery and storage of materials.

Construction of project-related improvements along Topanga Canyon Boulevard and Vanowen Street would have the potential to disrupt traffic flows along the corridors. Certain construction activities - such as roadway improvements, utility relocation or extensions, and drainage facility construction - could require temporary lane closures, which would in turn temporarily reduce existing street capacity. Such impacts would be short-term in duration. Potential sidewalk and lane closures could affect pedestrian and bicycle flows and therefore should be managed to minimize potential impacts. Traffic control plans would be required to mitigate these potential construction impacts. LAUSD requires its contactors to submit construction worksite traffic control plans to LADOT for review prior to construction as required by SC T-4. Elements if the traffic control plan would include, but would not necessarily be limited to, restricting construction-related trucks to off-peak commute periods, and provisions of flaggers to assist or direct traffic flows to and from the local streets. A "haul route" may be required and obtained from the Los Angeles Department of Building and Safety (LADBS). Therefore, the Project would not cause an increase in traffic that is substantial in relation to the existing traffic load and capacity of the adjacent street system.

SITE ACCESS AND CIRCULATION

As illustrated on the Project site plan, the single vehicular entrance for the interior of the campus is located on Vanowen Street which leads to a central promenade that runs north-south between the athletic field and the majority of the buildings. This is used for service vehicle access and parking for staff and students. There is a parking lot off of Vanowen Street next to Assembly Hall with its own entrance, just west of the main vehicular entrance, and another parking lot off of Topanga Canyon Boulevard south of the basketball courts. The western corner areas both have their own vehicular entrances and parking spaces. Vehicular drop-off/pick-up occurs on Vanowen Street and Topanga Canyon Boulevard near the entrance into the campus interior on Vanowen Street and near the northern parking lot on Topanga Canyon Boulevard. Bus drop-offs and pick-ups occur on Topanga Canyon Boulevard in front of the main campus entrance.

Campus pedestrian and vehicular entryways will remain the same and drop-off and pick-up points will remain unchanged. Parking will remain in the same locations though spaces will be increased along the central promenade, and potentially increased in the lot accessed from Topanga Canyon Boulevard. The improved internal circulation will be similar to the existing circulation though the central promenade will be straightened, widened, and landscaped as buildings previously within the path will be demolished. Parking spaces will be increased along the central promenade but access to service vehicles will be reduced as much as possible, and a new hardscape treatment and landscaping is intended to orient the space toward pedestrians. The primary internal circulation routes will be improved with landscaping and new hardscape treatment. Screens will also be incorporated to visually separate the athletic field bleachers from the rest of the campus, and to visually obscure the boiler room located near the center of the campus.

The Project site is developed with existing school facilities. The campus is generally bounded by Topanga Canyon Boulevard to the west, Vanowen Street to the south, Owensmouth Avenue to the east and Hart Street to the north. Pedestrian access and circulation is provided along sidewalks on all streets surrounding the campus. The two intersections on Topanga Canyon Boulevard along the campus frontage are signalized with crosswalk pavement markings across Topanga Canyon Boulevard. In addition, the Vanowen Street/Owensmouth Avenue and Hart Street/Owensmouth Avenue intersections are signalized with crosswalk pavement markings across Owensmouth Avenue. Crosswalk pavement markings are provided across Hart Street at Topanga Canyon Road and Vassar Avenue.

The proposed Project would occur on the existing Canoga Park High School campus (with no increase in enrollment). The Project would not increase traffic volumes on the adjacent roadways after construction is completed; it would not directly or indirectly alter the configuration of the exiting street system (including sidewalks, crosswalks or traffic control devices at intersections). The Project would enhance the path of travel, accessibility and other pedestrian travel throughout the campus. The Project would employ standard engineering practice such as standard driveway widths and turning radii and the provision

of adequate line of sight to avoid design elements that could result in hazards. Passenger vehicle/bus drop-off and pick-up zones would be designated in the curb-lane adjacent to the campus on Topanga Canyon Boulevard and Vanowen Street. The student drop-off and pick-up operations have been planned to minimize vehicular queuing in traffic lanes on the local street system. Conformance to LAUSD policies and local ordinance would ensure that adequate access would be maintained.

Pedestrian access to and from campus during school construction would be minimally altered and any temporary changes to pedestrian access during each phase of the construction would be completed as outlined in a worksite traffic control plan for the proposed Project (Per SC T-4). Construction vehicles accessing the campus would avoid drop-off and pick-up during the start and end of the school day. All construction related access and traffic would be coordinated with the school administrators, LAUSD's Transportation and the Office of Environmental Health and Safety and will be detailed in the worksite traffic control plan.

The proposed Project would not substantially increase vehicular and or pedestrian safety hazards for students and residents in the surrounding neighborhood. Project impacts to pedestrian safety would be less than significant.

SAFE ROUTES TO SCHOOL

There are residential neighborhoods located within walking distance of the Project site. Figure 2 illustrates the "'Safe Routes to School" map for the Canoga Park High School. The existing pedestrian, bicycle and transit facilities discussed previously connect the Canoga Pak High School campus to the adjacent residential neighborhoods. Local students would travel along Topanga Canyon Boulevard, Vanowen Street, Owensmouth Avenue, Hart Street, Bassett Street, Schoolcraft Street, Vassar Avenue and Jordan Avenue to the school campus. Traffic signals and pedestrian crosswalks are provided at the major intersections allowing school children to cross Topanga Canyon Boulevard, Vanowen Street and Owensmouth Avenue. STOP-Sign controlled pedestrian crosswalks are provided along Hart Street for school children that reside north of the school.

COLLISION HISTORY

The collision history was evaluated to determine its relative safety given the existing conditions in the field. Collison data was obtained from California Highway Patrol (CHP) for the most currently available three-year period, which is from January 1, 2021 through October 30, 2023 (see attached collision data).

There were 11 reported collisions at intersections in the study-area within the 3-year period. One of the collisions was a single-vehicle fatal collision with a pedestrian. One of the collisions was a single-vehicle head-on collision with a fixed object. The remaining collisions involved a vehicle that sideswiped another vehicle or rear-ended/backed into another

vehicle. The primary collision factors by severity were failure to yield/improper turn, r-o-w violations alcohol, unsafe speed and pedestrian violation. None of the 11 collisions involved school children. The fatal pedestrian collision occurred in October of 2022 at 8:35 PM. The majority of the other collisions occurred outside of normal school hours.

VEHICLE MILES TRAVELED ANALYSIS

The State of California, in compliance with Senate Bill 743, has developed a new set of CEQA guidelines and thresholds for transportation impacts that are based on a Vehicle Miles Traveled (VMT) metric rather than a Level of Service (LOS) metric. The State's Natural Resource Agency Updated Guidelines for the Implementation of the CEQA adopted in 2018, have designated VMT as the most appropriate measure of transportation impacts. "Vehicle miles traveled" refers to the amount and distance of automobile travel attributable to a project. Other relevant considerations may include the effects of the project on transit and non-motorized travel. For land use projects, vehicle miles traveled exceeding an applicable threshold of significance may indicate a significant impact.

Local agencies have discretion to develop and adopt their own thresholds or rely on thresholds recommended by other agencies. The City of Los Angeles has adopted VMT impact criteria, the VMT analysis prepared for the Project was developed using the adopted VMT screening criteria.

City of Los Angeles VMT Screening Criteria

Projects shall be presumed to have a less than significant transportation impact if they meet any of the following screening criteria:

Tier 1 Screening Criteria:

Project will have less residential units compared to the existing residential units and is within one-half mile of a fixed-rail station.

Tier 2 Screening Criteria:

The net increase in daily trips $<$ 250 trips.
The net increase in daily VMT ≤ 0.
The proposed project consists of only retail land uses $\leq$ 50,000 square feet total.

Project Trip Generation

Trip generation estimates were calculated for the Canoga Park High School based on the rates published in the Institute of Transportation Engineers (ITE), Trip Generation, 11th Edition

for High School (Land Use Code #525). Table 1 presents the trip generation estimates for the high school.

Table 1
Project Trip Generation

Land Use	Enrollment	ADT		AM Peak Hour		PM Peak Hour	
		Rate	Trips	Rate	Trips	Rate	Trips
Pre-Modernization: High School	1,800 Students	1.94	3,492	0.52	936 (636/300)	0.14	252 (121/131)
Post Modernization: High School	1,800 Students	1.94	3,492	0.52	936 (636/300)	0.14	252 (121/131)
Net Change:			0		0 (0/0)		0 (0/0)

The data presented in Table 1 indicate that the high school is estimated to generate 1,335 ADT, 89 AM peak hour trips and 116 PM peak hour trips. The modernization project does not result in an increase in student capacity, additional traffic or result in a change in traffic patterns. Utilizing the City of Los Angeles VMT Calculator this traffic analysis has determined that the Project generates less than 250 average daily external trips. The Project would not result in a net increase in daily VMT therefore, a VMT analysis is not required.

Associated Transportation Engineers

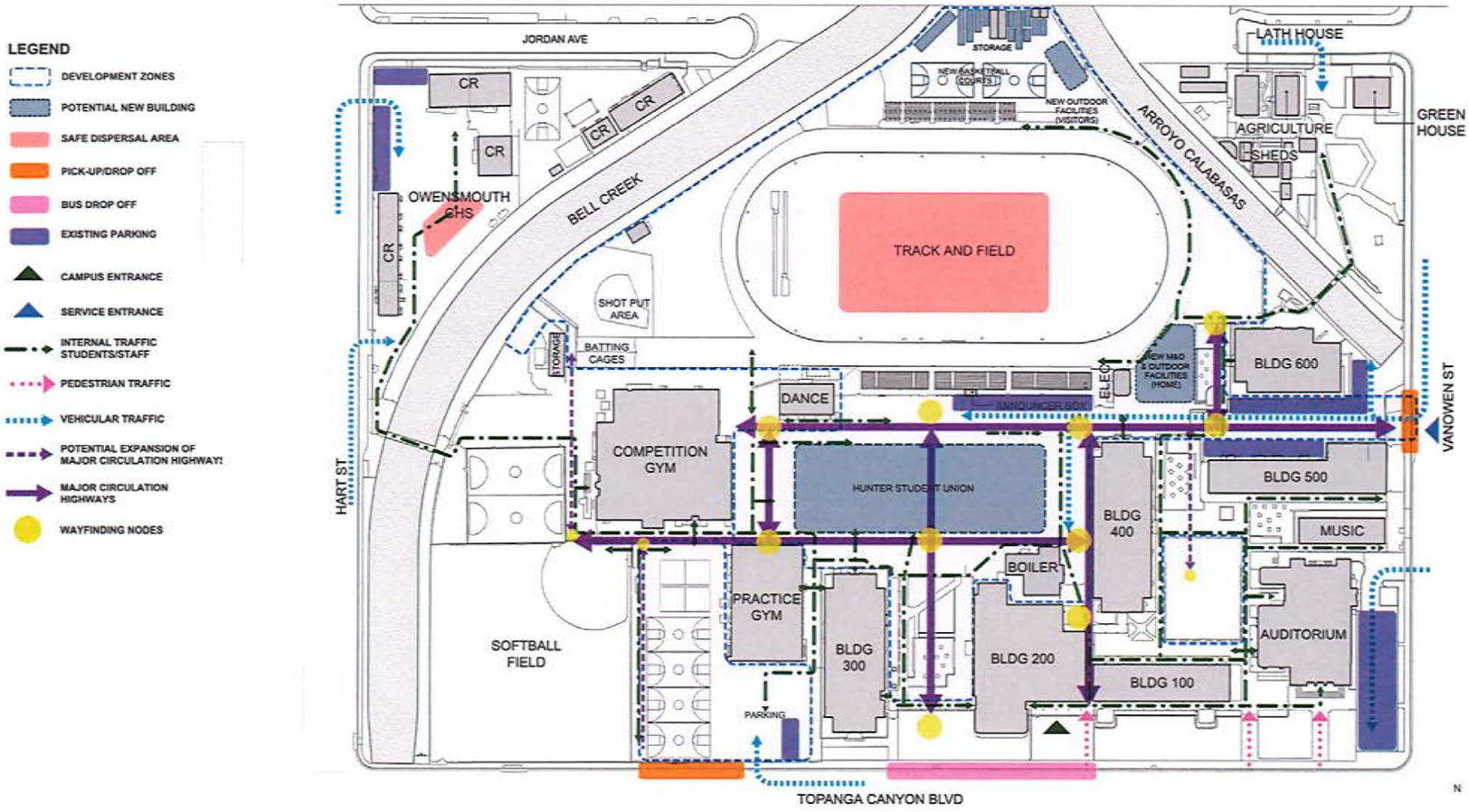
By: Scott A. Schell
Principal Transportation Planner

SAS/DFN

attachments: Figure 1 - Project Site Plan
Figure 2 - School Safe Routes to School Map
City of Los Angeles Vehicles Miles Traveled (VMT) Policy
CHP Collision History

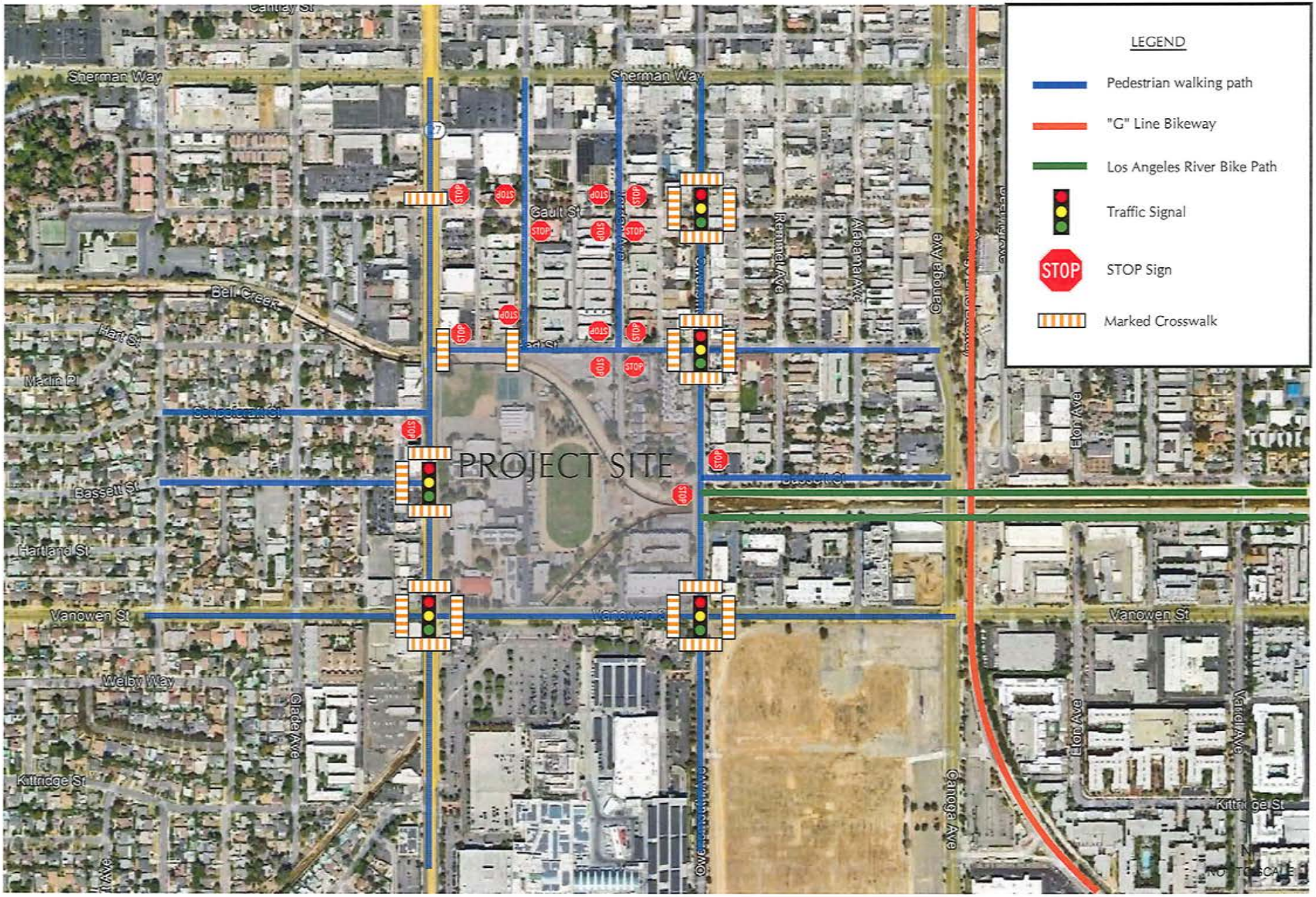
FIGURE 1

PROJECT SITE PLAN



ASSOCIATED TRANSPORTATION ENGINEERS

GM- ATE#23057



ASSOCIATED TRANSPORTATION ENGINEERS

SAFE ROUTES TO SCHOOL

FIGURE 2

GM- ATE#23057

CITY OF LOS ANGELES VMT CALCULATOR Version 1.4

Project Screening Criteria: Is this project required to conduct a vehicle miles traveled analysis?

Project Information

Project: Canoga Park High School

Scenario: Existing

Address: 6850 N TOPANGA CANYON BLVD, 91303



Is the project replacing an existing number of residential units with a smaller number of residential units AND is located within one-half mile of a fixed-rail or fixed-guideway transit station?

● Yes ○ No

Existing Land Use

Land Use Type	Value	Unit
School | High School	1800	Students
School | High School	1800	Students

☐ Click here to add a single custom land use type (will be included in the above list)

Proposed Project Land Use

Land Use Type	Value	Unit
School | High School	1800	Students
School | High School	1800	Students

☐ Click here to add a single custom land use type (will be included in the above list)

Project Screening Summary

Existing Land Use	Proposed Project
1,670 Daily Vehicle Trips	1,670 Daily Vehicle Trips
13,990 Daily VMT	13,990 Daily VMT

Tier 1 Screening Criteria

Project will have less residential units compared to existing residential units & is within one-half mile of a fixed-rail station. ☐

Tier 2 Screening Criteria

The net increase in daily trips < 250 trips	0 Net Daily Trips
The net increase in daily VMT ≤ 0	0 Net Daily VMT
The proposed project consists of only retail land uses ≤ 50,000 square feet total.	0.000 ksf

The proposed project is not required to perform VMT analysis.

Measuring the Miles

11/16/2023

Primary Rd OWENSMOUTH AV Distance (ft) 300. Direction N Secondary Rd BASSET ST NCIC 1942 State Hwy? N Route Postmile Prefix Postmile Side of Hwy
City Los Angeles County Los Angeles Population 7 Rpt Dist 2146 Beat 21XL4 Type 0 CalTrans Badge 43062 Collision Date 20210627 Time 2021 Day SUN
Primary Collision Factor IMPROP TURN Violation 22107 Collision Type SIDESWIPE Severity PDO #Killed 0 #Injured 0 Tow Away? Y Process Date 20210812
Weather1 CLEAR Weather2 Rdwy Surface DRY Rdwy Cond1 NO UNUSL CND Rdwy Cond2 Spec Cond 0
Hit and Run MSDMNR Motor Vehicle Involved With PKD MV Lighting DUSK/DAWN Ped Action Cntrl Dev NT PRS/FCTR Loc Type Ramp/Int

Party Info

Party	Type	Age	Sex	Race	Sobriety1	Sobriety2	Move Pre	Dir	SW Veh	CHP Veh	Make	Year	SP Info	OAF1	Viol	OAF2	Safety Equip
1F	DRVR	998	-		IMP UNK	IMP UNK	PROC ST	-	A	0100	-	2007	-	-	-	-	- - -
2	PRKD	998	-				PARKED	-	A	0100	-	2017	-	-	-	-	- - -
3	PRKD	998	-				PARKED	-	A	0100	-	2021	-	-	-	-	- - -

Victim Info

ROLE	Ext Of Inj	AGE	Sex	Seat Pos	Safety	EQUIP	Ejected

Primary Rd OWENSMOUTH AV Distance (ft) 0.00 Direction Secondary Rd CHATSWORTH NCIC 1942 State Hwy? N Route Postmile Prefix Postmile Side of Hwy
City Los Angeles County Los Angeles Population 7 Rpt Dist 1721 Beat 17A23 Type 0 CalTrans Badge 43436 Collision Date 20210615 Time 0550 Day TUE
Primary Collision Factor UNKNOWN Violation Collision Type Severity INJURY #Killed 0 #Injured 3 Tow Away? Y Process Date 20210726
Weather1 CLEAR Weather2 Rdwy Surface DRY Rdwy Cond1 NO UNUSL CND Rdwy Cond2 Spec Cond 0
Hit and Run Motor Vehicle Involved With Lighting DAYLIGHT Ped Action Cntrl Dev NT FNCT Loc Type Ramp/Int

Party Info

Party	Type	Age	Sex	Race	Sobriety1	Sobriety2	Move Pre	Dir	SW Veh	CHP Veh	Make	Year	SP Info	OAF1	Viol	OAF2	Safety Equip
1	DRVR	73	F	W	HNBD		PROC ST	N	-	0000	-	2013	-	-	N	-	L -
2	DRVR	61	M	B	HNBD		PROC ST	-	-	0000	-	2011	-	-	N	-	L -

Victim Info

ROLE	Ext Of Inj	AGE	Sex	Seat Pos	Safety	EQUIP	Ejected
DRVR	OTH VIS	74	F	1	0	L	C
DRVR	COMP PN	62	M	1	0	L	C
PASS	COMP PN	53	F	3	0	L	C

Primary Rd OWENSMOUTH AV Distance (ft) 0.00 Direction Secondary Rd ERWIN ST NCIC 1942 State Hwy? N Route Postmile Prefix Postmile Side of Hwy
City Los Angeles County Los Angeles Population 7 Rpt Dist 2156 Beat 21A57 Type 0 CalTrans Badge 32687 Collision Date 20210406 Time 0915 Day TUE
Primary Collision Factor DRVR ALC/DRG Violation 23152G Collision Type REAR END Severity PDO #Killed 0 #Injured 0 Tow Away? Y Process Date 20210424
Weather1 CLEAR Weather2 Rdwy Surface DRY Rdwy Cond1 NO UNUSL CND Rdwy Cond2 Spec Cond 0
Hit and Run Motor Vehicle Involved With OTHER MV Lighting DAYLIGHT Ped Action Cntrl Dev NT PRS/FCTR Loc Type Ramp/Int

Party Info

Party	Type	Age	Sex	Race	Sobriety1	Sobriety2	Move Pre	Dir	SW Veh	CHP Veh	Make	Year	SP Info	OAF1	Viol	OAF2	Safety Equip
1F	DRVR	17	M	H		DRUG	PROC ST	E	A	0100	-	2012	-	3	A	22350	- L E
2	DRVR	63	F	W	HNBD		STOPPED	E	A	0100	-	2007	-	3	N		- M G

Victim Info

ROLE	Ext Of Inj	AGE	Sex	Seat Pos	Safety	EQUIP	Ejected

Primary Rd OWENSMOUTH AV Distance (ft) 140. Direction N Secondary Rd ROMAR ST NCIC 1942 State Hwy? N Route Postmile Prefix Postmile Side of Hwy
City Los Angeles County Los Angeles Population 7 Rpt Dist 1751 Beat 17A23 Type 0 CalTrans Badge 25901 Collision Date 20210126 Time 1930 Day TUE
Primary Collision Factor DRVR ALC/DRG Violation 23152A Collision Type REAR END Severity PDO #Killed 0 #Injured 0 Tow Away? N Process Date 20210309
Weather1 CLEAR Weather2 Rdwy Surface DRY Rdwy Cond1 NO UNUSL CND Rdwy Cond2 Spec Cond 0
Hit and Run Motor Vehicle Involved With PKD MV Lighting DARK - ST Ped Action Cntrl Dev NT PRS/FCTR Loc Type Ramp/Int

Party Info

Party	Type	Age	Sex	Race	Sobriety1	Sobriety2	Move Pre	Dir	SW Veh	CHP Veh	Make	Year	SP Info	OAF1	Viol	OAF2	Safety Equip
1F	DRVR	52	M	H	HBD-UI		UNS TURN	S	D	2200	-	2001	-	3	A	22107	- M G
2	PRKD	998	-				PARKED	S	A	0100	-	2021	-	3	N		- - -

Victim Info

ROLE	Ext Of Inj	AGE	Sex	Seat Pos	Safety	EQUIP	Ejected

Primary Rd OWENSMOUTH AV Distance (ft) 0.00 Direction Secondary Rd SATICOY ST NCIC 1942 State Hwy? N Route Postmile Prefix Postmile Side of Hwy
City Los Angeles County Los Angeles Population 7 Rpt Dist 2125 Beat 21A29 Type 0 CalTrans Badge 44097 Collision Date 20210104 Time 0950 Day MON
Primary Collision Factor R-O-W PED Violation 21950A Collision Type AUTO/PED Severity INJURY #Killed 0 #Injured 1 Tow Away? N Process Date 20210318
Weather1 CLEAR Weather2 Rdwy Surface DRY Rdwy Cond1 NO UNUSL CND Rdwy Cond2 Spec Cond 0
Hit and Run FELONY Motor Vehicle Involved With PED Lighting DAYLIGHT Ped Action X-WLK AT Cntrl Dev FNCTNG Loc Type Ramp/Int

Party Info

Party	Type	Age	Sex	Race	Sobriety1	Sobriety2	Move Pre	Dir	SW Veh	CHP Veh	Make	Year	SP Info	OAF1	Viol	OAF2	Safety Equip
1F	DRVR	998	-		IMP UNK	IMP UNK	RGT TURN	E	-	9900	-		-	3	N		- - -
2	PED	52	F	H			PROC ST	N	N	6000	-		-	3	N		- - -

Victim Info

ROLE	Ext Of Inj	AGE	Sex	Seat Pos	Safety	EQUIP	Ejected
PED	COMP PN	52	F	-	-	-	-

This report is accepted subject to the Terms of Use. Due to collision records processing backlogs, SWITRS data is typically seven months behind. Data requested for dates seven months prior to the current date will be incomplete.

Primary Rd HART ST | Distance (ft) 0.00 | Direction | Secondary Rd HAZELTINE AV | NCIC 1942 | State Hwy? N | Route | Postmile Prefix | Postmile | Side of Hwy
City Los Angeles | County Los Angeles | Population 7 | Rpt Dist 0916 | Beat 26T35 | Type 0 | CalTrans | Badge 36733 | Collision Date 20221105 | Time 2025 | Day SAT
Primary Collision Factor STOP SGNISIG | Violation 21453A | Collision Type BROADSIDE | Severity PDO | #Killed 0 | #Injured 0 | Tow Away? Y | Process Date 20221215
Weather1 CLEAR | Weather2 | Rdwy Surface DRY | Rdwy Cond1 NO UNUSL CND | Rdwy Cond2 | Spec Cond 0
Hit and Run MSDMNR | Motor Vehicle Involved With OTHER MV | Lighting DAYLIGHT | Ped Action | Cntrl Dev FNCTNG | Loc Type | Ramp/Int

Party Info

Party	Type	Age	Sex	Race	Sobriety1	Sobriety2	Move Pre	Dir	SW Veh	CHP Veh	Make	Year	SP Info	OAF1	Viol	OAF2	Safety	Equip
1F	DRVR	998	-		IMP UNK	IMP UNK	PROC ST	W	A	0700	-	2007	-	N		-	-	-
2	DRVR	32	M	H	HNBD		PROC ST	N	A	0100	-	2018	3	N		-	M	G

Victim Info

ROLE	Ext Of Inj	AGE	Sex	Seat Pos	Safety	EQUIP	Ejected

Primary Rd HART ST | Distance (ft) 150. | Direction W | Secondary Rd RESEDA BL | NCIC 1942 | State Hwy? N | Route | Postmile Prefix | Postmile | Side of Hwy
City Los Angeles | County Los Angeles | Population 7 | Rpt Dist 1024 | Beat 26TL22 | Type 0 | CalTrans | Badge 42251 | Collision Date 20220604 | Time 2500 | Day SAT
Primary Collision Factor IMPROP TURN | Violation 22107 | Collision Type SIDESWIPE | Severity PDO | #Killed 0 | #Injured 0 | Tow Away? Y | Process Date 20220629
Weather1 CLOUDY | Weather2 | Rdwy Surface DRY | Rdwy Cond1 NO UNUSL CND | Rdwy Cond2 | Spec Cond 0
Hit and Run MSDMNR | Motor Vehicle Involved With PKD MV | Lighting DARK - NO | Ped Action | Cntrl Dev NT PRS/FCTR | Loc Type | Ramp/Int

Party Info

Party	Type	Age	Sex	Race	Sobriety1	Sobriety2	Move Pre	Dir	SW Veh	CHP Veh	Make	Year	SP Info	OAF1	Viol	OAF2	Safety	Equip
1F	DRVR	998	-		IMP UNK	IMP UNK	UNS TURN	W	A	0700	-	2002	-	N		-	-	-
2	PRKD	998	-				PARKED	E	A	0100	-	2015	3	N		-	-	-

Victim Info

ROLE	Ext Of Inj	AGE	Sex	Seat Pos	Safety	EQUIP	Ejected

Primary Rd HART ST | Distance (ft) 0.00 | Direction | Secondary Rd VASSAR AV | NCIC 1942 | State Hwy? N | Route | Postmile Prefix | Postmile | Side of Hwy
City Los Angeles | County Los Angeles | Population 7 | Rpt Dist 2146 | Beat | Type 0 | CalTrans | Badge 44906 | Collision Date 20220811 | Time 2020 | Day THU
Primary Collision Factor R-O-W AUTO | Violation 21804A | Collision Type SIDESWIPE | Severity PDO | #Killed 0 | #Injured 0 | Tow Away? N | Process Date 20220912
Weather1 CLEAR | Weather2 | Rdwy Surface DRY | Rdwy Cond1 NO UNUSL CND | Rdwy Cond2 | Spec Cond 0
Hit and Run MSDMNR | Motor Vehicle Involved With OTHER MV | Lighting DARK - ST | Ped Action | Cntrl Dev NT PRS/FCTR | Loc Type | Ramp/Int

Party Info

Party	Type	Age	Sex	Race	Sobriety1	Sobriety2	Move Pre	Dir	SW Veh	CHP Veh	Make	Year	SP Info	OAF1	Viol	OAF2	Safety	Equip
1F	DRVR	998	-		IMP UNK	IMP UNK	LFT TURN	S	-	0000	-	2019	-	-		-	-	-
2	DRVR	39	M	W	HNBD		PROC ST	W	A	0700	-	2017	-	-		-	-	-

Victim Info

ROLE	Ext Of Inj	AGE	Sex	Seat Pos	Safety	EQUIP	Ejected

Primary Rd HART ST | Distance (ft) 0.00 | Direction | Secondary Rd WHITEOAK AV | NCIC 1942 | State Hwy? N | Route | Postmile Prefix | Postmile | Side of Hwy
City Los Angeles | County Los Angeles | Population 7 | Rpt Dist 1025 | Beat 26M36 | Type 0 | CalTrans | Badge 33294 | Collision Date 20220325 | Time 1655 | Day FRI
Primary Collision Factor STOP SGNISIG | Violation 21453A | Collision Type BROADSIDE | Severity PDO | #Killed 0 | #Injured 0 | Tow Away? Y | Process Date 20220503
Weather1 CLEAR | Weather2 | Rdwy Surface DRY | Rdwy Cond1 NO UNUSL CND | Rdwy Cond2 | Spec Cond 0
Hit and Run MSDMNR | Motor Vehicle Involved With OTHER MV | Lighting DAYLIGHT | Ped Action | Cntrl Dev FNCTNG | Loc Type | Ramp/Int

Party Info

Party	Type	Age	Sex	Race	Sobriety1	Sobriety2	Move Pre	Dir	SW Veh	CHP Veh	Make	Year	SP Info	OAF1	Viol	OAF2	Safety	Equip
1F	DRVR	998	-		IMP UNK	IMP UNK	PROC ST	E	A	0100	-	1994	-	N		-	-	-
2	DRVR	33	F	H	HNBD		PROC ST	S	A	0100	-	2020	3	N		-	M	G

Victim Info

ROLE	Ext Of Inj	AGE	Sex	Seat Pos	Safety	EQUIP	Ejected

Primary Rd HARTWICK ST | Distance (ft) 132. | Direction S | Secondary Rd LINDA ROSA AV | NCIC 1942 | State Hwy? N | Route | Postmile Prefix | Postmile | Side of Hwy
City Los Angeles | County Los Angeles | Population 7 | Rpt Dist 1119 | Beat 24TL29 | Type 0 | CalTrans | Badge 38357 | Collision Date 20220621 | Time 1345 | Day TUE
Primary Collision Factor STRTNGIBCKNG | Violation 22106 | Collision Type SIDESWIPE | Severity PDO | #Killed 0 | #Injured 0 | Tow Away? N | Process Date 20220727
Weather1 CLEAR | Weather2 | Rdwy Surface DRY | Rdwy Cond1 NO UNUSL CND | Rdwy Cond2 | Spec Cond 0
Hit and Run | Motor Vehicle Involved With OTHER MV | Lighting DAYLIGHT | Ped Action | Cntrl Dev NT PRS/FCTR | Loc Type | Ramp/Int

Party Info

Party	Type	Age	Sex	Race	Sobriety1	Sobriety2	Move Pre	Dir	SW Veh	CHP Veh	Make	Year	SP Info	OAF1	Viol	OAF2	Safety	Equip
1F	DRVR	54	M	H	HNBD		PROC ST	S	F	2600	-	2011	3	N		-	M	G
2	DRVR	20	F	W	HNBD		STOPPED	N	A	0100	FORD	2018	3	N		-	M	G

Victim Info

ROLE	Ext Of Inj	AGE	Sex	Seat Pos	Safety	EQUIP	Ejected
PASS		20	F	3	0	M	G
PASS		24	M	6	0	M	G

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Primary Rd JORDAN AV Distance (ft) 50.0 Direction N Secondary Rd HART ST NCIC 1942 State Hwy? N Route Postmile Prefix Postmile Side of Hwy
City Los Angeles County Los Angeles Population 7 Rpt Dist 2146 Beat 21X39 Type 0 CalTrans Badge 42907 Collision Date 20221111 Time 1232 Day FRI
Primary Collision Factor DRVR ALCIDRG Violation 23152A Collision Type SIDESWIPE Severity INJURY #Killed 0 #Injured 1 Tow Away? Y Process Date 20230104
Weather1 CLEAR Weather2 Rdwy Surface DRY Rdwy Cond1 NO UNUSL CND Rdwy Cond2 Spec Cond 0
Hit and Run Motor Vehicle Involved With OTHER MV Lighting DAYLIGHT Ped Action Cntrl Dev NT PRS/FCTR Loc Type Ramp/Int

Party Info

Party	Type	Age	Sex	Race	Sobriety1	Sobriety2	Move Pre	Dir	SW Veh	CHP Veh	Make	Year	SP Info	OAF1	Viol	OAF2	Safety Equip
1F	DRVR	36	M	H	HBD-UI		WRONG WY	S	D	2200	FORD	2001	- -	A	21460	-	M C
2	PRKD	998	-		HNBD		PARKED	N	A	0100	-	2016	- -	N		-	- -

Victim Info

ROLE	Ext Of Inj	AGE	Sex	Seat Pos	Safety	EQUIP	Ejected
DRVR	MINOR	37	M	1	0	M	C

Primary Rd JUANITA AV Distance (ft) 335. Direction N Secondary Rd 3RD ST NCIC 1942 State Hwy? N Route Postmile Prefix Postmile Side of Hwy
City Los Angeles County Los Angeles Population 7 Rpt Dist 2019 Beat 27T35 Type 0 CalTrans Badge 42656 Collision Date 20220502 Time 0200 Day MON
Primary Collision Factor IMPROP TURN Violation 22107 Collision Type HEAD-ON Severity INJURY #Killed 0 #Injured 2 Tow Away? N Process Date 20220606
Weather1 CLEAR Weather2 Rdwy Surface DRY Rdwy Cond1 NO UNUSL CND Rdwy Cond2 Spec Cond 0
Hit and Run FELONY Motor Vehicle Involved With OTHER MV Lighting DARK - ST Ped Action Cntrl Dev NT PRS/FCTR Loc Type Ramp/Int

Party Info

Party	Type	Age	Sex	Race	Sobriety1	Sobriety2	Move Pre	Dir	SW Veh	CHP Veh	Make	Year	SP Info	OAF1	Viol	OAF2	Safety Equip
1F	DRVR	998	-		IMP UNK	IMP UNK	UNS TURN	N	-	9900	-		- -	N		-	- -
2	DRVR	27	F	B	HNBD		STOPPED	S	A	0100	-	2014	- 3	N		-	M G

Victim Info

ROLE	Ext Of Inj	AGE	Sex	Seat Pos	Safety	EQUIP	Ejected
DRVR	POSSIBL	27	F	1	0	M	G
PASS	POSSIBL	27	F	3	0	M	G

Primary Rd JUANITA AV Distance (ft) 0.00 Direction S Secondary Rd CLINTON ST NCIC 1942 State Hwy? N Route Postmile Prefix Postmile Side of Hwy
City Los Angeles County Los Angeles Population 7 Rpt Dist 0203 Beat 24T34 Type 0 CalTrans Badge 34350 Collision Date 20220305 Time 2345 Day SAT
Primary Collision Factor IMPROP TURN Violation 22107 Collision Type SIDESWIPE Severity PDO #Killed 0 #Injured 0 Tow Away? Y Process Date 20220413
Weather1 CLEAR Weather2 Rdwy Surface DRY Rdwy Cond1 NO UNUSL CND Rdwy Cond2 Spec Cond 0
Hit and Run MSDMNR Motor Vehicle Involved With PKD MV Lighting DARK - ST Ped Action Cntrl Dev NT PRS/FCTR Loc Type Ramp/Int

Party Info

Party	Type	Age	Sex	Race	Sobriety1	Sobriety2	Move Pre	Dir	SW Veh	CHP Veh	Make	Year	SP Info	OAF1	Viol	OAF2	Safety Equip
1F	DRVR	998	-		IMP UNK	IMP UNK	UNS TURN	N	A	0700	-	2008	- -	N		-	- -
2	PRKD	998	-				PARKED	N	A	0800	-	2001	- -	N		-	- -
3	PRKD	998	-				PARKED	N	A	0100	-	2009	- -	N		-	- -
4	PRKD	998	-				PARKED	N	A	0100	-	2020	- -	N		-	- -

Victim Info

ROLE	Ext Of Inj	AGE	Sex	Seat Pos	Safety	EQUIP	Ejected

Primary Rd JUDGE JOHN AISO Distance (ft) 30.0 Direction N Secondary Rd 1ST ST NCIC 1942 State Hwy? N Route Postmile Prefix Postmile Side of Hwy
City Los Angeles County Los Angeles Population 7 Rpt Dist 0127 Beat 24TL56 Type 0 CalTrans Badge 39395 Collision Date 20220815 Time 1525 Day MON
Primary Collision Factor UNSAFE SPEED Violation 22350 Collision Type REAR END Severity INJURY #Killed 0 #Injured 1 Tow Away? N Process Date 20220901
Weather1 CLEAR Weather2 Rdwy Surface DRY Rdwy Cond1 NO UNUSL CND Rdwy Cond2 Spec Cond 0
Hit and Run Motor Vehicle Involved With OTHER MV Lighting DAYLIGHT Ped Action Cntrl Dev NT PRS/FCTR Loc Type Ramp/Int

Party Info

Party	Type	Age	Sex	Race	Sobriety1	Sobriety2	Move Pre	Dir	SW Veh	CHP Veh	Make	Year	SP Info	OAF1	Viol	OAF2	Safety Equip
1F	DRVR	26	M	W	HNBD		PROC ST	S	J	4300	-	2014	- 3	N		-	M G
2	DRVR	29	F	A	HNBD		STOPPED	S	A	0100	-	2015	- 3	N		-	M G

Victim Info

ROLE	Ext Of Inj	AGE	Sex	Seat Pos	Safety	EQUIP	Ejected
PASS		998	M	3	0	M	G
DRVR	POSSIBL	29	F	1	0	M	G

Primary Rd JUDGE JOHN AISO Distance (ft) 20.0 Direction E Secondary Rd SAN PEDRO NCIC 1942 State Hwy? N Route Postmile Prefix Postmile Side of Hwy
City Los Angeles County Los Angeles Population 7 Rpt Dist 0128 Beat 24TL51 Type 0 CalTrans Badge 42932 Collision Date 20221203 Time 1330 Day SAT
Primary Collision Factor IMPROP TURN Violation 22107 Collision Type SIDESWIPE Severity PDO #Killed 0 #Injured 0 Tow Away? N Process Date 20221221
Weather1 CLEAR Weather2 Rdwy Surface DRY Rdwy Cond1 NO UNUSL CND Rdwy Cond2 Spec Cond 0
Hit and Run Motor Vehicle Involved With FIXED OBJ Lighting DAYLIGHT Ped Action Cntrl Dev NT PRS/FCTR Loc Type Ramp/Int

Party Info

Party	Type	Age	Sex	Race	Sobriety1	Sobriety2	Move Pre	Dir	SW Veh	CHP Veh	Make	Year	SP Info	OAF1	Viol	OAF2	Safety Equip
1F	DRVR	42	F	H	HNBD		UNS TURN	N	J	4800	FORD	2007	- 3	N		-	M G

Victim Info

ROLE	Ext Of Inj	AGE	Sex	Seat Pos	Safety	EQUIP	Ejected

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Primary Rd OWENSMOUTH AV Distance (ft) 150. Direction S Secondary Rd HART ST NCIC 1942 State Hwy? N Route Postmile Prefix Postmile Side of Hwy
City Los Angeles County Los Angeles Population 7 Rpt Dist 2146 Beat 21A29 Type 0 CalTrans Badge 39600 Collision Date 20221110 Time 2300 Day THU
Primary Collision Factor UNSAFE SPEED Violation 22350 Collision Type HEAD-ON Severity PDO #Killed 0 #Injured 0 Tow Away? Y Process Date 20221213
Weather1 Weather2 Rdwy Surface DRY Rdwy Cond1 NO UNUSL CND Rdwy Cond2 Spec Cond 0
Hit and Run MSDMNR Motor Vehicle Involved With FIXED OBJ Lighting DARK - ST Ped Action Cntrl Dev NT PRS/FCTR Loc Type Ramp/Int

Party Info

Party	Type	Age	Sex	Race	Sobriety1	Sobriety2	Move Pre	Dir	SW Veh	CHP Veh	Make	Year	SP Info	OAF1	Viol	OAF2	Safety Equip
1F	DRVR	998	-		IMP UNK	IMP UNK	PROC ST	S	D	2200	FORD	2009	- -	N		-	- -

Victim Info

ROLE	Ext Of Inj	AGE	Sex	Seat Pos	Safety	EQUIP	Ejected

Primary Rd OWENSMOUTH AV Distance (ft) 0.00 Direction Secondary Rd LASSEN ST NCIC 1942 State Hwy? N Route Postmile Prefix Postmile Side of Hwy
City Los Angeles County Los Angeles Population 7 Rpt Dist 1761 Beat 17X47 Type 0 CalTrans Badge 34639 Collision Date 20220208 Time 0800 Day TUE
Primary Collision Factor STOP SGNISIG Violation 21453A Collision Type BROADSIDE Severity INJURY #Killed 0 #Injured 1 Tow Away? N Process Date 20220307
Weather1 CLEAR Weather2 Rdwy Surface DRY Rdwy Cond1 NO UNUSL CND Rdwy Cond2 Spec Cond 0
Hit and Run FELONY Motor Vehicle Involved With OTHER MV Lighting DAYLIGHT Ped Action Cntrl Dev FNCTNG Loc Type Ramp/Int

Party Info

Party	Type	Age	Sex	Race	Sobriety1	Sobriety2	Move Pre	Dir	SW Veh	CHP Veh	Make	Year	SP Info	OAF1	Viol	OAF2	Safety Equip
1F	DRVR	998	-		IMP UNK	IMP UNK	PROC ST	S	-	9900	-		- -	N		-	- -
2	DRVR	70	M	H	HNBD		LFT TURN	N	D	2200	CHEVR	2009	- -	N		-	M -

Victim Info

ROLE	Ext Of Inj	AGE	Sex	Seat Pos	Safety	EQUIP	Ejected
DRVR	COMP PN	70	M	1	0	M	G

Primary Rd OWENSMOUTH AV Distance (ft) 75.0 Direction S Secondary Rd VALERIO ST NCIC 1942 State Hwy? N Route Postmile Prefix Postmile Side of Hwy
City Los Angeles County Los Angeles Population 7 Rpt Dist 2136 Beat 26TL32 Type 0 CalTrans Badge 37613 Collision Date 20221120 Time 2030 Day SUN
Primary Collision Factor DRVR ALCIDRG Violation 23152A Collision Type REAR END Severity PDO #Killed 0 #Injured 0 Tow Away? N Process Date 20230103
Weather1 CLEAR Weather2 Rdwy Surface DRY Rdwy Cond1 NO UNUSL CND Rdwy Cond2 Spec Cond 0
Hit and Run Motor Vehicle Involved With PKD MV Lighting DARK - ST Ped Action Cntrl Dev NT PRS/FCTR Loc Type Ramp/Int

Party Info

Party	Type	Age	Sex	Race	Sobriety1	Sobriety2	Move Pre	Dir	SW Veh	CHP Veh	Make	Year	SP Info	OAF1	Viol	OAF2	Safety Equip
1F	DRVR	34	M	H	HBD-UI		PARKING	N	A	0100	-	2000	- 3	A	22350	-	M G
2	PRKD	998	-				PARKED	N	A	0100	-	1966	- 3	N		-	- -

Victim Info

ROLE	Ext Of Inj	AGE	Sex	Seat Pos	Safety	EQUIP	Ejected

Primary Rd OWENSMOUTH AV Distance (ft) 0.00 Direction Secondary Rd VICTORY BL NCIC 1942 State Hwy? N Route Postmile Prefix Postmile Side of Hwy
City Los Angeles County Los Angeles Population 7 Rpt Dist 2156 Beat 26TL25 Type 0 CalTrans Badge 41316 Collision Date 20220607 Time 1105 Day TUE
Primary Collision Factor R-O-W AUTO Violation 21801A Collision Type HEAD-ON Severity INJURY #Killed 0 #Injured 3 Tow Away? Y Process Date 20220708
Weather1 CLEAR Weather2 Rdwy Surface DRY Rdwy Cond1 NO UNUSL CND Rdwy Cond2 Spec Cond 0
Hit and Run Motor Vehicle Involved With OTHER MV Lighting DAYLIGHT Ped Action Cntrl Dev FNCTNG Loc Type Ramp/Int

Party Info

Party	Type	Age	Sex	Race	Sobriety1	Sobriety2	Move Pre	Dir	SW Veh	CHP Veh	Make	Year	SP Info	OAF1	Viol	OAF2	Safety Equip
1F	DRVR	63	F	W	HNBD		LFT TURN	N	A	0100	-	2020	A -	N		-	L G
2	DRVR	45	F	H	HNBD		PROC ST	S	A	0100	FORD	2015	A -	N		-	L G

Victim Info

ROLE	Ext Of Inj	AGE	Sex	Seat Pos	Safety	EQUIP	Ejected
DRVR	MINOR	63	F	1	0	L	G
DRVR	POSSIBL	45	F	1	0	L	G
PASS	POSSIBL	20	F	3	0	L	G

Primary Rd OWENSMOUTH AV Distance (ft) 145. Direction S Secondary Rd VICTORY BL NCIC 1942 State Hwy? N Route Postmile Prefix Postmile Side of Hwy
City Los Angeles County Los Angeles Population 7 Rpt Dist 2156 Beat 21A73 Type 0 CalTrans Badge 38833 Collision Date 20220924 Time 0230 Day SAT
Primary Collision Factor UNSAFE SPEED Violation 22350 Collision Type BROADSIDE Severity PDO #Killed 0 #Injured 0 Tow Away? Y Process Date 20221007
Weather1 CLEAR Weather2 Rdwy Surface DRY Rdwy Cond1 NO UNUSL CND Rdwy Cond2 Spec Cond 0
Hit and Run MSDMNR Motor Vehicle Involved With FIXED OBJ Lighting DARK - ST Ped Action Cntrl Dev NT PRS/FCTR Loc Type Ramp/Int

Party Info

Party	Type	Age	Sex	Race	Sobriety1	Sobriety2	Move Pre	Dir	SW Veh	CHP Veh	Make	Year	SP Info	OAF1	Viol	OAF2	Safety Equip
1F	DRVR	998	-		IMP UNK	IMP UNK	PROC ST	S	D	2200	-	2001	- -	N		-	- -

Victim Info

ROLE	Ext Of Inj	AGE	Sex	Seat Pos	Safety	EQUIP	Ejected
PASS		28	M	3	0	M	H

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Primary Rd TOPANGA CANYON Distance (ft) 50.0 Direction N Secondary Rd BASSETT ST NCIC 1942 State Hwy? N Route Postmile Prefix Postmile Side of Hwy
City Los Angeles County Los Angeles Population 7 Rpt Dist 2145 Beat 26T53 Type 0 CalTrans Badge 41396 Collision Date 20221012 Time 2035 Day WED
Primary Collision Factor PED VIOL Violation 21954A Collision Type AUTO/PED Severity FATAL #Killed 1 #Injured 0 Tow Away? N Process Date 20221123
Weather1 CLEAR Weather2 Rdwy Surface DRY Rdwy Cond1 NO UNUSL CND Rdwy Cond2 Spec Cond 0
Hit and Run Motor Vehicle Involved With PED Lighting DARK - ST Ped Action X-WLK NT Cntrl Dev FNCTNG Loc Type Ramp/Int

Party Info

Party	Type	Age	Sex	Race	Sobriety1	Sobriety2	Move Pre	Dir	SW Veh	CHP Veh	Make	Year	SP Info	OAF1	Viol	OAF2	Safety Equip
1	DRVR	23	M	W	HNBD		PROC ST	S	A	0100	-	2017	- 3	N		-	M G
2F	PED	45	M	W	HNBD		PROC ST	W	N	6000	-		- -	N		-	- -

Victim Info

ROLE	Ext Of Inj	AGE	Sex	Seat Pos	Safety	EQUIP	Ejected
PED	KILLED	45	M	-	-	-	-

Primary Rd TOPANGA CANYON Distance (ft) 35.0 Direction S Secondary Rd BURBANK BL NCIC 1942 State Hwy? Y Route 27 Postmile Prefix - Postmile 12.500 Side of Hwy N
City Los Angeles County Los Angeles Population 7 Rpt Dist 2177 Beat 26T90 Type 0 CalTrans 7 Badge 42251 Collision Date 20220513 Time 1405 Day FRI
Primary Collision Factor UNKNOWN Violation 20015 Collision Type REAR END Severity INJURY #Killed 0 #Injured 1 Tow Away? N Process Date 20221031
Weather1 CLEAR Weather2 Rdwy Surface DRY Rdwy Cond1 NO UNUSL CND Rdwy Cond2 Spec Cond 0
Hit and Run FELONY Motor Vehicle Involved With OTHER MV Lighting DAYLIGHT Ped Action Cntrl Dev FNCTNG Loc Type H Ramp/Int -

Party Info

Party	Type	Age	Sex	Race	Sobriety1	Sobriety2	Move Pre	Dir	SW Veh	CHP Veh	Make	Year	SP Info	OAF1	Viol	OAF2	Safety Equip
1F	DRVR	79	M	W	IMP UNK	IMP UNK	PROC ST	N	A	0100	-	2022	- 3	N		-	- -
2	DRVR	70	F	W	HNBD		STOPPED	N	A	0100	-	2010	- 3	N		-	M G

Victim Info

ROLE	Ext Of Inj	AGE	Sex	Seat Pos	Safety	EQUIP	Ejected
DRVR	POSSIBL	70	F	1	0	M	G

Primary Rd TOPANGA CANYON Distance (ft) 37.0 Direction N Secondary Rd BURBANK BL NCIC 1942 State Hwy? Y Route 27 Postmile Prefix - Postmile 12.530 Side of Hwy S
City Los Angeles County Los Angeles Population 7 Rpt Dist 2155 Beat 26TL16 Type 0 CalTrans 7 Badge 40065 Collision Date 20220919 Time 1110 Day MON
Primary Collision Factor UNSAFE SPEED Violation 22350 Collision Type SIDESWIPE Severity PDO #Killed 0 #Injured 0 Tow Away? Y Process Date 20221012
Weather1 CLEAR Weather2 Rdwy Surface DRY Rdwy Cond1 NO UNUSL CND Rdwy Cond2 Spec Cond 0
Hit and Run MSDMNR Motor Vehicle Involved With OTHER MV Lighting DAYLIGHT Ped Action Cntrl Dev FNCTNG Loc Type H Ramp/Int -

Party Info

Party	Type	Age	Sex	Race	Sobriety1	Sobriety2	Move Pre	Dir	SW Veh	CHP Veh	Make	Year	SP Info	OAF1	Viol	OAF2	Safety Equip
1F	DRVR	998	-		IMP UNK	IMP UNK	PROC ST	S	C	0200	-	2014	- -	N		-	- -
2	DRVR	36	F	O	HNBD		STOPPED	S	A	0100	-	2015	- -	N		-	M G

Victim Info

ROLE	Ext Of Inj	AGE	Sex	Seat Pos	Safety	EQUIP	Ejected

Primary Rd TOPANGA CANYON Distance (ft) 25.0 Direction N Secondary Rd CHASE ST NCIC 1942 State Hwy? Y Route 27 Postmile Prefix - Postmile 16.150 Side of Hwy N
City Los Angeles County Los Angeles Population 7 Rpt Dist 2103 Beat 26T32 Type 0 CalTrans 7 Badge 42818 Collision Date 20220515 Time 1910 Day SUN
Primary Collision Factor DRVR ALC/DRG Violation 23153A Collision Type SIDESWIPE Severity INJURY #Killed 0 #Injured 2 Tow Away? Y Process Date 20220613
Weather1 CLEAR Weather2 Rdwy Surface DRY Rdwy Cond1 NO UNUSL CND Rdwy Cond2 Spec Cond 0
Hit and Run Motor Vehicle Involved With OTHER MV Lighting DAYLIGHT Ped Action Cntrl Dev FNCTNG Loc Type H Ramp/Int -

Party Info

Party	Type	Age	Sex	Race	Sobriety1	Sobriety2	Move Pre	Dir	SW Veh	CHP Veh	Make	Year	SP Info	OAF1	Viol	OAF2	Safety Equip
1F	DRVR	51	M	H	HBD-UI		PASSING	N	A	0700	-	2005	- -	A	22658	-	M G
2	DRVR	26	F	H	HNBD		PROC ST	N	A	0100	-	2019	- 3	N		-	M G

Victim Info

ROLE	Ext Of Inj	AGE	Sex	Seat Pos	Safety	EQUIP	Ejected
PASS		23	F	4	0	M	G
DRVR	MINOR	26	-	1	0	M	G
PASS	MINOR	38	F	3	0	M	G
PASS		64	F	6	0	M	G

Primary Rd TOPANGA CANYON Distance (ft) 0.00 Direction Secondary Rd CHATSWORTH ST NCIC 1942 State Hwy? Y Route 27 Postmile Prefix - Postmile 19.140 Side of Hwy N
City Los Angeles County Los Angeles Population 7 Rpt Dist 1721 Beat 17X7 Type 0 CalTrans 7 Badge 32869 Collision Date 20220623 Time 2200 Day THU
Primary Collision Factor DRVR ALC/DRG Violation 23152A Collision Type HEAD-ON Severity PDO #Killed 0 #Injured 0 Tow Away? Y Process Date 20220901
Weather1 CLEAR Weather2 Rdwy Surface DRY Rdwy Cond1 NO UNUSL CND Rdwy Cond2 Spec Cond 0
Hit and Run Motor Vehicle Involved With OTHER MV Lighting DARK - ST Ped Action Cntrl Dev FNCTNG Loc Type H Ramp/Int -

Party Info

Party	Type	Age	Sex	Race	Sobriety1	Sobriety2	Move Pre	Dir	SW Veh	CHP Veh	Make	Year	SP Info	OAF1	Viol	OAF2	Safety Equip
1F	DRVR	39	M	H	HBD-UI		PROC ST	N	A	0700	JEEP	2001	- -	F		-	L G
2	DRVR	17	M	H	HNBD		STOPPED	S	A	0100	-	2001	- -	N		-	L G

Victim Info

ROLE	Ext Of Inj	AGE	Sex	Seat Pos	Safety	EQUIP	Ejected

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Primary Rd TOPANGA CANYON Distance (ft) 20.0 Direction S Secondary Rd VANOWEN ST NCIC 1942 State Hwy? N Route Postmile Prefix Postmile Side of Hwy
City Los Angeles County Los Angeles Population 7 Rpt Dist 2156 Beat 26TL72 Type 0 CalTrans Badge 38687 Collision Date 20220104 Time 1750 Day TUE
Primary Collision Factor DRVR ALC/DRG Violation 23152F Collision Type SIDESWIPE Severity PDO #Killed 0 #Injured 0 Tow Away? Y Process Date 20220207
Weather1 CLEAR Weather2 Rdwy Surface DRY Rdwy Cond1 NO UNUSL CND Rdwy Cond2 Spec Cond 0
Hit and Run MSDMNR Motor Vehicle Involved With OTHER MV Lighting DARK - ST Ped Action Cntrl Dev NT PRS/FCTR Loc Type Ramp/Int

Party Info

Party	Type	Age	Sex	Race	Sobriety1	Sobriety2	Move Pre	Dir	SW Veh	CHP Veh	Make	Year	SP Info	OAF1	Viol	OAF2	Safety Equip
1F	DRVR	33	M	H		DRUG	PROC ST	W	A	0100	-	2018	- 3	A	21804	-	M B
2	DRVR	33	M	W	HNBD		ENT TRAF	N	A	0100	-	2006	- 3	N		-	M G

Victim Info

ROLE	Ext Of Inj	AGE	Sex	Seat Pos	Safety	EQUIP	Ejected

Primary Rd TOPANGA CANYON Distance (ft) 30.0 Direction S Secondary Rd VENTURA BL NCIC 1942 State Hwy? Y Route 27 Postmile Prefix - Postmile 12.270 Side of Hwy N
City Los Angeles County Los Angeles Population 7 Rpt Dist 2175 Beat Type 0 CalTrans 7 Badge 40068 Collision Date 20220901 Time 0820 Day THU
Primary Collision Factor IMPROP TURN Violation 22107 Collision Type Severity INJURY #Killed 0 #Injured 1 Tow Away? N Process Date 20221012
Weather1 CLEAR Weather2 Rdwy Surface DRY Rdwy Cond1 NO UNUSL CND Rdwy Cond2 Spec Cond 0
Hit and Run FELONY Motor Vehicle Involved With OTHER MV Lighting DAYLIGHT Ped Action Cntrl Dev FNCTNG Loc Type H Ramp/Int -

Party Info

Party	Type	Age	Sex	Race	Sobriety1	Sobriety2	Move Pre	Dir	SW Veh	CHP Veh	Make	Year	SP Info	OAF1	Viol	OAF2	Safety Equip
1F	DRVR	998	-		IMP UNK	IMP UNK	CHANG LN	-	A	0100	-		- -	N		-	- -
2	DRVR	67	F	W	HNBD		PROC ST	N	A	0100	-	2021	- -	N		-	P G

Victim Info

ROLE	Ext Of Inj	AGE	Sex	Seat Pos	Safety	EQUIP	Ejected
DRVR	MINOR	67	F	1	0	P	G

Primary Rd TOPANGA CANYON Distance (ft) 0.00 Direction Secondary Rd VICTORY BL NCIC 1942 State Hwy? N Route Postmile Prefix Postmile Side of Hwy
City Los Angeles County Los Angeles Population 7 Rpt Dist 2145 Beat 21XL3 Type 0 CalTrans Badge 44366 Collision Date 20220102 Time 2240 Day SUN
Primary Collision Factor TOO CLOSE Violation 21703 Collision Type REAR END Severity INJURY #Killed 0 #Injured 2 Tow Away? N Process Date 20220202
Weather1 CLEAR Weather2 Rdwy Surface DRY Rdwy Cond1 NO UNUSL CND Rdwy Cond2 Spec Cond 0
Hit and Run FELONY Motor Vehicle Involved With OTHER MV Lighting DARK - ST Ped Action Cntrl Dev FNCTNG Loc Type Ramp/Int

Party Info

Party	Type	Age	Sex	Race	Sobriety1	Sobriety2	Move Pre	Dir	SW Veh	CHP Veh	Make	Year	SP Info	OAF1	Viol	OAF2	Safety Equip
1F	DRVR	998	-		IMP UNK	IMP UNK	PROC ST	S	-	0000	-	2012	- -	-		-	- -
2	DRVR	41	M	W	IMP UNK	IMP UNK	STOPPED	S	-	0000	-	2021	- -	-		-	M G

Victim Info

ROLE	Ext Of Inj	AGE	Sex	Seat Pos	Safety	EQUIP	Ejected
DRVR	COMP PN	41	M	1	0	M	G
PASS	COMP PN	36	F	2	0	M	G

Primary Rd TOPANGA CANYON Distance (ft) 0.00 Direction Secondary Rd VICTORY BL NCIC 1942 State Hwy? Y Route 27 Postmile Prefix - Postmile 13.551 Side of Hwy S
City Los Angeles County Los Angeles Population 7 Rpt Dist 2145 Beat 26TL47 Type 0 CalTrans 7 Badge 38326 Collision Date 20220524 Time 1435 Day TUE
Primary Collision Factor STOP SGN/SIG Violation 21453A Collision Type BROADSIDE Severity PDO #Killed 0 #Injured 0 Tow Away? Y Process Date 20220623
Weather1 CLEAR Weather2 Rdwy Surface DRY Rdwy Cond1 NO UNUSL CND Rdwy Cond2 Spec Cond 0
Hit and Run Motor Vehicle Involved With OTHER MV Lighting DAYLIGHT Ped Action Cntrl Dev FNCTNG Loc Type I Ramp/Int 5

Party Info

Party	Type	Age	Sex	Race	Sobriety1	Sobriety2	Move Pre	Dir	SW Veh	CHP Veh	Make	Year	SP Info	OAF1	Viol	OAF2	Safety Equip
1F	DRVR	18	M	W	HNBD		PROC ST	-	A	0700	-	2009	- 3	F		-	L G
2	DRVR	60	M	W	HNBD		LFT TURN	N	A	0100	-	2021	- 3	N		-	M G

Victim Info

ROLE	Ext Of Inj	AGE	Sex	Seat Pos	Safety	EQUIP	Ejected
PASS		64	F	-	-	-	-

Primary Rd TOPANGA CANYON Distance (ft) 6.00 Direction S Secondary Rd WYANDOTTE ST NCIC 1942 State Hwy? N Route Postmile Prefix Postmile Side of Hwy
City Los Angeles County Los Angeles Population 7 Rpt Dist 2134 Beat 26TL36 Type 0 CalTrans Badge 38185 Collision Date 20220621 Time 2240 Day TUE
Primary Collision Factor R-O-W PED Violation 21950A Collision Type AUTO/PED Severity INJURY #Killed 0 #Injured 2 Tow Away? N Process Date 20220815
Weather1 CLEAR Weather2 Rdwy Surface DRY Rdwy Cond1 NO UNUSL CND Rdwy Cond2 Spec Cond 0
Hit and Run FELONY Motor Vehicle Involved With PED Lighting DARK - ST Ped Action X-WLK AT Cntrl Dev FNCTNG Loc Type Ramp/Int

Party Info

Party	Type	Age	Sex	Race	Sobriety1	Sobriety2	Move Pre	Dir	SW Veh	CHP Veh	Make	Year	SP Info	OAF1	Viol	OAF2	Safety Equip
1F	DRVR	998	-		IMP UNK	IMP UNK	PROC ST	N	-	9900	-		- -	N		-	- -
2	PED	48	M	H	HNBD		PROC ST	W	N	6000	-		- 3	N		-	- -
3	PED	41	F	H	HNBD		PROC ST	W	N	6000	-		- 3	N		-	- -

Victim Info

ROLE	Ext Of Inj	AGE	Sex	Seat Pos	Safety	EQUIP	Ejected
PED	MINOR	48	M	-	-	-	-
PED	POSSIBL	31	F	-	-	-	-

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Primary Rd VANOWEN ST Distance (ft) 5.00 Direction W Secondary Rd INDEPENDENCE NCIC 1942 State Hwy? N Route Postmile Prefix Postmile Side of Hwy
City Los Angeles County Los Angeles Population 7 Rpt Dist 2157 Beat 21A29 Type 0 CalTrans Badge 44773 Collision Date 20221211 Time 0015 Day SUN
Primary Collision Factor DRVR ALC|DRG Violation 23153 Collision Type REAR END Severity INJURY #Killed 0 #Injured 2 Tow Away? Y Process Date 20230130
Weather1 RAINING Weather2 Rdwy Surface WET Rdwy Cond1 NO UNUSL CND Rdwy Cond2 Spec Cond 0
Hit and Run FELONY Motor Vehicle Involved With PKD MV Lighting DARK - ST Ped Action Cntrl Dev NT PRS/FCTR Loc Type Ramp/Int

Party Info

Party	Type	Age	Sex	Race	Sobriety1	Sobriety2	Move Pre	Dir	SW Veh	CHP Veh	Make	Year	SP Info	OAF1	Viol	OAF2	Safety Equip
1F	DRVR	36	M	H	HBD-UI		PROC ST	W	D	2200	-	2007	- -	A	22350	-	- -
2	PRKD	998	M	H			PARKED	-	-	0000	-	2019	- -	N		-	- -
3	PRKD	998	-				PARKED	-	A	0700	-	2012	- -	N		-	- -
4	PRKD	998	-				PARKED	-	A	0100	-	2020	- -	N		-	- -

Victim Info

ROLE	Ext Of Inj	AGE	Sex	Seat Pos	Safety	EQUIP	Ejected
PASS	OTH VIS	18	M	1	0	B	-
PASS	OTH VIS	18	F	3	0	B	-

Primary Rd VANOWEN ST Distance (ft) 0.00 Direction E Secondary Rd JELLICO AV NCIC 1942 State Hwy? N Route Postmile Prefix Postmile Side of Hwy
City Los Angeles County Los Angeles Population 7 Rpt Dist 1037 Beat 26TL55 Type 0 CalTrans Badge 33504 Collision Date 20220804 Time 2300 Day THU
Primary Collision Factor UNSAFE SPEED Violation 22350 Collision Type REAR END Severity INJURY #Killed 0 #Injured 2 Tow Away? Y Process Date 20220831
Weather1 CLEAR Weather2 Rdwy Surface DRY Rdwy Cond1 Rdwy Cond2 Spec Cond 0
Hit and Run Motor Vehicle Involved With OTHER MV Lighting DARK - ST Ped Action Cntrl Dev FNCTNG Loc Type Ramp/Int

Party Info

Party	Type	Age	Sex	Race	Sobriety1	Sobriety2	Move Pre	Dir	SW Veh	CHP Veh	Make	Year	SP Info	OAF1	Viol	OAF2	Safety	Equip
1F	DRVR	55	M	B	HNBD		PASSING	W	A	0700	FORD	2005	- 3	N		-	L	G
2	DRVR	33	M	H	HNBD		PROC ST	W	A	0100	-	2000	- 3	N		-	L	G
3	DRVR	23	M	H	HNBD		PROC ST	W	A	0100	AUDI	2018	- 3	N		-	L	G
4	DRVR	26	F	B	HNBD		PROC ST	W	A	0100	-	2015	- 3	N		-	M	G
5	PRKD	998	-				PARKED	E	C	0200	-	2013	- 3	N		-	-	-
6	PRKD	998	-				PARKED	E	C	0200	-	2006	- 3	N		-	-	-

Victim Info

ROLE	Ext Of Inj	AGE	Sex	Seat Pos	Safety	EQUIP	Ejected
DRVR	SERIOUS	55	M	1	0	L	G
DRVR	MINOR	31	M	1	0	L	G
PASS		20	M	3	0	L	G
PASS		26	M	3	0	L	G

Primary Rd VANOWEN ST Distance (ft) 75.0 Direction E Secondary Rd JORDAN AV NCIC 1942 State Hwy? N Route Postmile Prefix Postmile Side of Hwy
City Los Angeles County Los Angeles Population 7 Rpt Dist 2156 Beat 26M29 Type 0 CalTrans Badge 31931 Collision Date 20220407 Time 0825 Day THU
Primary Collision Factor STRTNG|BCKNG Violation 22106 Collision Type REAR END Severity INJURY #Killed 0 #Injured 3 Tow Away? Y Process Date 20220617
Weather1 CLEAR Weather2 Rdwy Surface DRY Rdwy Cond1 Rdwy Cond2 Spec Cond 0
Hit and Run FELONY Motor Vehicle Involved With OTHER MV Lighting DAYLIGHT Ped Action Cntrl Dev NT FNCT Loc Type Ramp/Int

Party Info

Party	Type	Age	Sex	Race	Sobriety1	Sobriety2	Move Pre	Dir	SW Veh	CHP Veh	Make	Year	SP Info	OAF1	Viol	OAF2	Safety	Equip
1F	DRVR	84	M	W	HNBD		PROC ST	W	-	0000	-	2005	- 3	N		-	L	G
2	DRVR	39	F	H	HNBD		STOPPED	W	-	0000	-	2018	- 3	-		-	L	G
3	DRVR	998	-		IMP UNK	IMP UNK	STOPPED	W	-	0000	-	2018	- -	-		-	-	-

Victim Info

ROLE	Ext Of Inj	AGE	Sex	Seat Pos	Safety	EQUIP	Ejected
DRVR	COMP PN	84	M	1	0	L	G
DRVR	COMP PN	39	F	1	0	L	G
PASS	COMP PN	16	F	3	0	L	G

Primary Rd VANOWEN ST Distance (ft) 25.0 Direction W Secondary Rd KESTER AV NCIC 1942 State Hwy? N Route Postmile Prefix Postmile Side of Hwy
City Los Angeles County Los Angeles Population 7 Rpt Dist 0914+ Beat 26TL46 Type 0 CalTrans Badge 42344 Collision Date 20220124 Time 1621 Day MON
Primary Collision Factor TOO CLOSE Violation 21703 Collision Type REAR END Severity PDO #Killed 0 #Injured 0 Tow Away? N Process Date 20220316
Weather1 CLEAR Weather2 Rdwy Surface DRY Rdwy Cond1 NO UNUSL CND Rdwy Cond2 Spec Cond 0
Hit and Run MSDMNR Motor Vehicle Involved With OTHER MV Lighting DAYLIGHT Ped Action Cntrl Dev NT PRS/FCTR Loc Type Ramp/Int

Party Info

Party	Type	Age	Sex	Race	Sobriety1	Sobriety2	Move Pre	Dir	SW Veh	CHP Veh	Make	Year	SP Info	OAF1	Viol	OAF2	Safety	Equip
1F	DRVR	998	-		HNBD		STOPPED	W	A	0800	-	2005	- 3	N		-	-	-
2	DRVR	62	F		IMP UNK	IMP UNK	PROC ST	W	A	0100	-	2020	- -	N		-	L	G

Victim Info

ROLE	Ext Of Inj	AGE	Sex	Seat Pos	Safety	EQUIP	Ejected
PASS		9	M	3	-	L	G

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Primary Rd TITUS ST | Distance (ft) 200. | Direction W | Secondary Rd VAN NUYS BL | NCIC 1942 | State Hwy? N | Route | Postmile Prefix | Postmile | Side of Hwy
City Los Angeles | County Los Angeles | Population 7 | Rpt Dist 1994 | Beat 23TL55 | Type 0 | CalTrans | Badge 33504 | Collision Date 20230624 | Time 0955 | Day SAT
Primary Collision Factor IMPROP TURN | Violation 22107 | Collision Type REAR END | Severity PDO | #Killed 0 | #Injured 0 | Tow Away? Y | Process Date 20230717
Weather1 CLEAR | Weather2 | Rdwy Surface DRY | Rdwy Cond1 NO UNUSL CND | Rdwy Cond2 | Spec Cond 0
Hit and Run MSDMNR | Motor Vehicle Involved With PKD MV | Lighting DAYLIGHT | Ped Action | Cntrl Dev NT PRS/FCTR | Loc Type | Ramp/Int

Party Info

Party	Type	Age	Sex	Race	Sobriety1	Sobriety2	Move Pre	Dir	SW Veh	CHP Veh	Make	Year	SP Info	OAF1	Viol	OAF2	Safety Equip
1F	DRVR	998	-		IMP UNK	IMP UNK	UNS TURN	E	-	9900	-	2014	- 3	I	-	-	-
2	PRKD	998	-		HNBD		PARKED	E	A	0100	-	2015	- 3	-	-	-	-

Victim Info

ROLE	Ext Of Inj	AGE	Sex	Seat Pos	Safety	EQUIP	Ejected

Primary Rd TOBERMAN ST | Distance (ft) 10.0 | Direction N | Secondary Rd 25TH ST | NCIC 1942 | State Hwy? N | Route | Postmile Prefix | Postmile | Side of Hwy
City Los Angeles | County Los Angeles | Population 7 | Rpt Dist 0308 | Beat 3A19 | Type 0 | CalTrans | Badge 45301 | Collision Date 20230720 | Time 2120 | Day THU
Primary Collision Factor R-O-W AUTO | Violation 21804 | Collision Type AUTO/PED | Severity INJURY | #Killed 0 | #Injured 1 | Tow Away? N | Process Date 20230830
Weather1 CLEAR | Weather2 | Rdwy Surface DRY | Rdwy Cond1 NO UNUSL CND | Rdwy Cond2 | Spec Cond 0
Hit and Run FELONY | Motor Vehicle Involved With PED | Lighting DARK - ST | Ped Action | Cntrl Dev NT PRS/FCTR | Loc Type | Ramp/Int

Party Info

Party	Type	Age	Sex	Race	Sobriety1	Sobriety2	Move Pre	Dir	SW Veh	CHP Veh	Make	Year	SP Info	OAF1	Viol	OAF2	Safety Equip
1F	DRVR	998	-		HBD-UNK		PROC ST	W	-	9900	-		- -	N	-	-	-
2	PRKD	998	-				PARKED	-	A	0100	-	2023	- -	N	-	-	-
3	PED	19	F	H	HNBD		PROC ST	S	N	6000	-		- -	N	-	-	-

Victim Info

ROLE	Ext Of Inj	AGE	Sex	Seat Pos	Safety	EQUIP	Ejected
PED	MINOR	19	F	-	0	P	-

Primary Rd TOBIAS AV | Distance (ft) 655. | Direction N | Secondary Rd PARTHENIA ST | NCIC 1942 | State Hwy? N | Route | Postmile Prefix | Postmile | Side of Hwy
City Los Angeles | County Los Angeles | Population 7 | Rpt Dist 1985 | Beat 26T175 | Type 0 | CalTrans | Badge 41316 | Collision Date 20230111 | Time 1740 | Day WED
Primary Collision Factor IMPROP TURN | Violation 22107 | Collision Type REAR END | Severity INJURY | #Killed 0 | #Injured 1 | Tow Away? Y | Process Date 20230303
Weather1 CLEAR | Weather2 | Rdwy Surface DRY | Rdwy Cond1 NO UNUSL CND | Rdwy Cond2 | Spec Cond 0
Hit and Run FELONY | Motor Vehicle Involved With PED | Lighting DARK - ST | Ped Action IN RD, | Cntrl Dev NT PRS/FCTR | Loc Type | Ramp/Int

Party Info

Party	Type	Age	Sex	Race	Sobriety1	Sobriety2	Move Pre	Dir	SW Veh	CHP Veh	Make	Year	SP Info	OAF1	Viol	OAF2	Safety Equip
1F	DRVR	998	-		IMP UNK	IMP UNK	PROC ST	N	-	0000	-	2001	- -	N	-	-	-
2	PRKD	998	-				STOPPED	N	A	0100	-	2005	- 3	N	-	-	-
3	PRKD	998	-				PARKED	N	A	0100	FORD	2010	- 3	N	-	-	-
4	PED	38	M	H	HNBD		STOPPED	N	N	6000	-		- 3	N	-	-	-

Victim Info

ROLE	Ext Of Inj	AGE	Sex	Seat Pos	Safety	EQUIP	Ejected
PED	MINOR	39	M	-	-	-	-

Primary Rd TOLAND WY | Distance (ft) 100. | Direction S | Secondary Rd N AVENUE 44 | NCIC 1942 | State Hwy? N | Route | Postmile Prefix | Postmile | Side of Hwy
City Los Angeles | County Los Angeles | Population 7 | Rpt Dist 1136 | Beat 11A17 | Type 0 | CalTrans | Badge 44224 | Collision Date 20230923 | Time 1958 | Day SAT
Primary Collision Factor IMPROP PASS | Violation 21750 | Collision Type SIDESWIPE | Severity PDO | #Killed 0 | #Injured 0 | Tow Away? Y | Process Date 20231101
Weather1 CLEAR | Weather2 | Rdwy Surface DRY | Rdwy Cond1 NO UNUSL CND | Rdwy Cond2 | Spec Cond 0
Hit and Run MSDMNR | Motor Vehicle Involved With MV ON OTHER RD | Lighting DAYLIGHT | Ped Action | Cntrl Dev NT PRS/FCTR | Loc Type | Ramp/Int

Party Info

Party	Type	Age	Sex	Race	Sobriety1	Sobriety2	Move Pre	Dir	SW Veh	CHP Veh	Make	Year	SP Info	OAF1	Viol	OAF2	Safety Equip
1F	DRVR	998	-				STOPPED	S	A	0100	-	2008	- -	N	-	-	-
2	DRVR	48	M	H			STOPPED	S	A	0100	-	2007	- -	N	-	-	-

Victim Info

ROLE	Ext Of Inj	AGE	Sex	Seat Pos	Safety	EQUIP	Ejected

Primary Rd TOPANGA CANYON | Distance (ft) 100. | Direction S | Secondary Rd BASSETT ST | NCIC 1942 | State Hwy? Y | Route 27 | Postmile Prefix - | Postmile 14.140 | Side of Hwy S
City Los Angeles | County Los Angeles | Population 7 | Rpt Dist 2146 | Beat M45 | Type 0 | CalTrans 7 | Badge 40542 | Collision Date 20230615 | Time 1014 | Day THU
Primary Collision Factor IMPROP TURN | Violation 22107 | Collision Type SIDESWIPE | Severity PDO | #Killed 0 | #Injured 0 | Tow Away? Y | Process Date 20230802
Weather1 CLEAR | Weather2 | Rdwy Surface DRY | Rdwy Cond1 NO UNUSL CND | Rdwy Cond2 | Spec Cond 0
Hit and Run | Motor Vehicle Involved With OTHER MV | Lighting DAYLIGHT | Ped Action | Cntrl Dev FNCTNG | Loc Type H | Ramp/Int -

Party Info

Party	Type	Age	Sex	Race	Sobriety1	Sobriety2	Move Pre	Dir	SW Veh	CHP Veh	Make	Year	SP Info	OAF1	Viol	OAF2	Safety Equip
1F	DRVR	998	-		HNBD		UNS TURN	S	A	0100	-	2020	- -	M	-	-	-
2	DRVR	33	F	B	HNBD		PROC ST	S	A	0100	-	2021	- -	N	-	M	G

Victim Info

ROLE	Ext Of Inj	AGE	Sex	Seat Pos	Safety	EQUIP	Ejected
PASS		20	F	3	0	M	G

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Primary Rd TOPANGA CANYON Distance (ft) 175. Direction S Secondary Rd ROSECOE BL NCIC 1942 State Hwy? N Route Postmile Prefix Postmile Side of Hwy
City Los Angeles County Los Angeles Population 7 Rpt Dist 2105 Beat 21X98 Type 0 CalTrans Badge 44535 Collision Date 20230630 Time 0055 Day FRI
Primary Collision Factor DRVR ALC/DRG Violation 23152A Collision Type HIT OBJECT Severity PDO #Killed 0 #Injured 0 Tow Away? Y Process Date 20230807
Weather1 CLEAR Weather2 Rdwy Surface DRY Rdwy Cond1 NO UNUSL CND Rdwy Cond2 Spec Cond 0
Hit and Run Motor Vehicle Involved With FIXED OBJ Lighting DARK - ST Ped Action Cntrl Dev FNCTNG Loc Type Ramp/Int

Party Info

Party	Type	Age	Sex	Race	Sobriety1	Sobriety2	Move Pre	Dir	SW Veh	CHP Veh	Make	Year	SP Info	OAF1	Viol	OAF2	Safety Equip
1F	DRVR	23	M	H	HBD-UI		UNS TURN	N	A	0100	-	2005	- -	A	22107	-	L B

Victim Info

ROLE	Ext Of Inj	AGE	Sex	Seat Pos	Safety	EQUIP	Ejected

Primary Rd TOPANGA CANYON Distance (ft) 80.0 Direction S Secondary Rd SCHOOLCRAFT ST NCIC 1942 State Hwy? Y Route 27 Postmile Prefix - Postmile 14.210 Side of Hwy N
City Los Angeles County Los Angeles Population 7 Rpt Dist 2134 Beat 26M51 Type 0 CalTrans 7 Badge 36678 Collision Date 20230501 Time 1330 Day MON
Primary Collision Factor LANE CHANGE Violation 21658A Collision Type SIDESWIPE Severity PDO #Killed 0 #Injured 0 Tow Away? Y Process Date 20230614
Weather1 CLEAR Weather2 Rdwy Surface DRY Rdwy Cond1 NO UNUSL CND Rdwy Cond2 Spec Cond 0
Hit and Run Motor Vehicle Involved With OTHER MV Lighting DAYLIGHT Ped Action Cntrl Dev NT PRS/FCTR Loc Type H Ramp/Int -

Party Info

Party	Type	Age	Sex	Race	Sobriety1	Sobriety2	Move Pre	Dir	SW Veh	CHP Veh	Make	Year	SP Info	OAF1	Viol	OAF2	Safety Equip
1F	DRVR	80	F	W	HNBD		PROC ST	N	A	0100	-	2017	- 3	N		-	M G
2	DRVR	32	M	H	HNBD		PROC ST	N	I	2000	-	2021	- 3	N		-	M G

Victim Info

ROLE	Ext Of Inj	AGE	Sex	Seat Pos	Safety	EQUIP	Ejected

Primary Rd TOPANGA CANYON Distance (ft) 45.0 Direction S Secondary Rd SCHOOLCRAFT ST NCIC 1942 State Hwy? N Route Postmile Prefix Postmile Side of Hwy
City Los Angeles County Los Angeles Population 7 Rpt Dist 2146 Beat 26TL43 Type 0 CalTrans Badge 37613 Collision Date 20230625 Time 1045 Day SUN
Primary Collision Factor DRVR ALC/DRG Violation 23152A Collision Type SIDESWIPE Severity PDO #Killed 0 #Injured 0 Tow Away? Y Process Date 20230807
Weather1 CLEAR Weather2 Rdwy Surface DRY Rdwy Cond1 NO UNUSL CND Rdwy Cond2 Spec Cond 0
Hit and Run Motor Vehicle Involved With OTHER MV Lighting DAYLIGHT Ped Action Cntrl Dev FNCTNG Loc Type Ramp/Int

Party Info

Party	Type	Age	Sex	Race	Sobriety1	Sobriety2	Move Pre	Dir	SW Veh	CHP Veh	Make	Year	SP Info	OAF1	Viol	OAF2	Safety Equip
1F	DRVR	28	M	H	HBD-UI		PROC ST	S	A	0700	-	2023	- -	A	21658	-	M G
2	DRVR	46	M	H	HNBD		STOPPED	S	A	0700	-	2005	- -	N		-	M G

Victim Info

ROLE	Ext Of Inj	AGE	Sex	Seat Pos	Safety	EQUIP	Ejected
PASS		66	F	3	0	M	G
PASS		2	F	4	0	P	Q
PASS		63	F	6	0	P	G
PASS		3	F	6	0	P	G
PASS		24	F	7	0	P	G

Primary Rd TOPANGA CANYON Distance (ft) 0.00 Direction Secondary Rd SHERMAN WY NCIC 1942 State Hwy? Y Route 27 Postmile Prefix - Postmile 14.560 Side of Hwy S
City Los Angeles County Los Angeles Population 7 Rpt Dist Beat 21A29 Type 0 CalTrans 7 Badge 44893 Collision Date 20230513 Time 2200 Day SAT
Primary Collision Factor UNSAFE SPEED Violation 22350 Collision Type REAR END Severity INJURY #Killed 0 #Injured 2 Tow Away? Y Process Date 20230607
Weather1 CLEAR Weather2 Rdwy Surface DRY Rdwy Cond1 NO UNUSL CND Rdwy Cond2 Spec Cond 0
Hit and Run FELONY Motor Vehicle Involved With OTHER MV Lighting DARK - ST Ped Action Cntrl Dev FNCTNG Loc Type H Ramp/Int -

Party Info

Party	Type	Age	Sex	Race	Sobriety1	Sobriety2	Move Pre	Dir	SW Veh	CHP Veh	Make	Year	SP Info	OAF1	Viol	OAF2	Safety Equip
1F	DRVR	998	-		IMP UNK	IMP UNK	PROC ST	S	-	9900	-		- -	F		-	- -
2	DRVR	32	F	H	HNBD		STOPPED	S	A	0700	-	2019	- -	N		-	M G
3	DRVR	998	-		HNBD		STOPPED	-	-	9900	-		- -	N		-	- -

Victim Info

ROLE	Ext Of Inj	AGE	Sex	Seat Pos	Safety	EQUIP	Ejected
DRVR	POSSIBL	32	F	1	0	L	G
PASS	POSSIBL	29	F	3	0	L	G

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